

第四届全驱系统理论与应用会议

The 4th Conference on Fully Actuated System Theory and Applications (FASTA 2025)



主办单位 南京理工大学 中国自动化学会全驱系统理论与应用专业委员会 亚洲控制协会全驱系统理论与应用专业委员会

> 承办单位 南京理工大学自动化学院

Organizing Institutions Nanjing University of Science and Technology Technical Committee on Fully Actuated System Theory and Applications, CAA Technical Committee on Fully Actuated System Theory and Applications, ACA

Host Institution School of Automation, Nanjing University of Science and Technology



协办单位:

IEEE Guangzhou Section、IEEE industrial Electronics Society IEEE Nanjing Section、南京信息工程大学、江苏省自动化学会 江苏省电机工程学会、空间目标感知全国重点实验室

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欢迎辞

第四届全驱系统理论与应用会议(The 4th Conference on Fully Actuated System Theory and Applications, FASTA2025) 将于2025年7月4-6日在江苏省南京市召开。会议总主席由中国 科学院院士、哈尔滨工业大学段广仁教授担任,会议程序委员 会主席由国家杰青、教育部高层次人才、南京理工大学徐胜元 教授担任。会议旨在为从事全驱系统理论与应用相关领域研究 的国内外专家、学者及工程技术人员提供一个学术交流平台, 更好地宣传全驱系统理论与应用领域的研究成果,推动全驱系统 理论与应用研究的发展。会议采用大会报告、分会场报告、特邀

论坛、分组报告和张贴论文等形式进行交流。会议的工作语言为中文和英文。会议收录的论文会后将提交IEEE Xplore数据库。 在此,我们谨代表会议程序委员会与组织委员会对所有投稿作者及参会人员表示最衷心的感谢与最热烈的欢迎! 本届会议由南京理工大学、中国自动化学会全驱系统理论与应用专业委员会、亚洲控制协会全驱系统理论与应用专业委 员会共同主办,南京理工大学自动化学院承办,IEEE 广州分会、IEEE工业电子协会、IEEE 南京分会、南京信息工程大学、江 苏省自动化学会、江苏省电机工程学会、空间目标感知全国重点实验室协办。会议共收到来自中国、澳大利亚、新加坡、美 国、日本、加拿大、英国等9个国家和地区的投稿665篇(包括论文580篇,长摘要85篇),经过严格、认真的评审程序,共 有517篇论文和81篇长摘要被会议录用。本次会议安排口头报告51组,共378篇论文和长摘要,会议期间共安排12-13个会 议室进行四轮口头报告交流。会议安排张贴报告2组,共164篇论文和长摘要。

我们很荣幸地邀请了3位国际知名学者作大会报告,他们是Prof. Alessandro Astolfi(伦敦帝国理工学院,英国), Prof. Hyungbo Shim(首尔大学,韩国), Prof. Donghua Zhou(东南大学,中国)。本次会议组织了两个分会场报告, 分别邀请了北京航空航天大学胡庆雷教授,四川大学李彬教授,南京理工大学叶茂娇教授,南开大学孙宁教授,中国矿业大 学代伟教授,上海交通大学李元龙教授、中国科学院数学与系统科学研究院齐洪胜研究员、南方科技大学孔贺教授担任主讲 嘉宾。会议还精心组织了巾帼论坛、成长论坛等6组特邀论坛,特别邀请到北京大学、浙江大学、东南大学、香港城市大学等 知名高校的30余位控制领域杰出学者,分别担任报告人、主持人及点评专家等角色,围绕领域前沿展开深度学术分享与交流。 本次会议特设"优秀青年论文奖""最佳学生论文奖"与"张贴论文奖",旨在激励更多青年科研工作者与学生投身全驱 系统控制理论及应用研究;同时设立"全驱奖"与"青年全驱奖",以表彰在全驱系统理论与应用领域取得卓越成果的学者。

在此,我们谨向所有为本届会议顺利召开做出贡献的人士致以我们最真诚的谢意!感谢审稿人及程序委员会委员对投稿 论文的严谨评审!感谢组委会和志愿者提供的热情服务!感谢大会报告人与分会场报告人接受会议邀请,与大家一同分享他 们最新的研究成果!最后,我们谨代表程序委员会衷心感谢所有投稿作者和参会人员对第四届全驱系统理论与应用会议的支 持! 第四届全驱系统理论与应用会议欢迎您!

M'74= 会议总主席





段广仁院士 会议总主席



徐胜元教授 会议程序委员会主席

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Welcome Address

The 4th Conference on Fully Actuated System Theory and Applications (FASTA2025) will be held from July 4 to 6, 2025, in Nanjing, Jiangsu Province, China. The General Chair is Professor Guangren Duan, an Academician of the Chinese Academy of Sciences from Harbin Institute of Technology. The Program Committee Chair is Professor Shengyuan Xu, recipient of the National Science Fund for Distinguished Young Scholars, from Nanjing University of Science and Technology. The conference aims to provide an academic exchange platform for experts, scholars,



Guangren Duan General Chair Shengyuan Xu Program Committee Chair

and engineers from around the world engaged in research related to fully actuated system theory and applications, to better disseminate research achievements in this field, and to promote the advancement of fully actuated system theory and applications. The conference will feature various forms of communication, including plenary lectures, invited sessions, invited forums, oral presentations, and poster sessions. The working languages of the conference are Chinese and English. Papers accepted by the conference will be submitted to the IEEE Xplore database after the event.

On behalf of the conference Program Committee, we would like to express our heartfelt thanks and warmest welcome to all the contribut ors and participants!

The conference is co-sponsored by Nanjing University of Science and Technology, the Technical Committee on Fully Actuated System Theory and Applications, CAA, and the Technical Committee on Fully Actuated System Theory and Applications, ACA. It is hosted by the School of Automation at Nanjing University of Science and Technology and co-organized by the IEEE Guangzhou Section, IEEE Industrial Electronics Society, IEEE Nanjing Section, Nanjing University of Information Science and Technology, Jiangsu Association of Automation, Jiangsu Electrical Engineering Society, and the National Key Laboratory of Space Object Perception. The conference received a total of 665 submissions (including 580 full papers and 85 extended abstracts) from nine countries and regions, including China, Australia, Singapore, the United States, Japan, Canada, and the United Kingdom. After a strict and careful review process, 517 papers and 81 extended abstracts are accepted by the conference. During the conference, 13-15 conference rooms are assigned for 4 rounds of oral presentation, including 51 oral sessions that cover a total of 378 papers. Two poster sessions, including a total of 164 papers, are also scheduled during the conference.

We are honored to invite three internationally famous scholars to deliver Plenary Lectures. They are Professor Alessandro Astolfi (Imperial College London, UK), Professor Hyungbo Shim (Seoul National University, South Korea), and Professor Donghua Zhou (Southeast University, China). We also organize 8 Semi-plenary Lectures and they are delivered by

Professor Qinglei Hu from Beihang University, Prof. Bin Li from Sichuan University, Prof. Maojiao Ye from Nanjing University of Science and Technology, Prof. Ning Sun from Nankai University, Prof. Wei Dai from China University of Mining and Technology, Prof. Yuanlong Li from Shanghai Jiao Tong University, Prof. Hongsheng Qi from Academy of Mathematics and Systems Science, Chinese Academy of Sciences, and Prof. He Kong from Southern University of Science and Technology. The conference has also organized 6 groups of invited forums. Over 30 distinguished scholars from renowned universities such as Peking University, Zhejiang University, Southeast University, and City University of Hong Kong have been invited, engaging in in-depth academic sharing and exchanges focusing on cutting-edge issues in the field.

The conference set up the "Outstanding Youth Paper Award", "Best Student Paper Award" and "Poster Paper Award", aiming to encourage more young researchers and students to devote themselves to the research on control theory and applications of fully actuated systems. Meanwhile, the "Full-Actuation Award" and "Youth Full-Actuation Award" are set up to recognize scholars who have made extraordinary achievements in the field of fully actuated system theory and applications.

We would like to express our most sincere gratitude to all those who contributed to the successful convening of this conference! Thanks to the reviewers and members of the Program Committee for their rigorous review of the submitted papers! Thank the organizing committee and volunteers for their warm service! We would like to thank the plenary speakers, the semi-plenary speakers and the invited forum speakers for accepting the conference invitation and sharing their latest research findings with us! Finally, on behalf of the Program Committee,we would like to thank all contributors and participants for their support of the 4th Conference on Fully Actuated System Theory and Applications!

Guangren Duan General Chair

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Shengyuan Xu Program Committee Chair

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会议程序总览 (Program at a Glance)

第四届全驱系统理论与应用会议

The 4th Conference on Fully Actuated System Theory and Applications

日期	时间	E
7月4日 (星期五)	08:00-22:00	报
July 4 (Friday)	20:00-21:00	CAA TC FASTA ACA TC FASTA
日期	时间	日程
	08:00-08:30	入场、合影
	08:30-09:00	开幕式致辞
	09:00-09:45	▶大会报告一: Dynamic Linearize Stabilizability and ▶Speaker: Alessandro Astolfi ▶Imperial College London, UK
	09:45-10:15	茶歇
7月5日 (星期六)	10:15-11:00	▶大会报告二: Synchronization of Multi-agent Syste lar Perturbation ▶Speaker: Hyungbo Shim ▶Seoul National University, Sour
July 5 (Saturday)	11:00-11:45	▶大会报告三: Fault Tolerant Cor Fully Actuated Sys ▶Speaker: Donghua Zhou ▶Southeast University, China
	12:00-13:30	午餐自助
	13:30-15:30	分组报告一、张贴报告一、优秀青年
-	15:30-16:00	茶歇
	16:00-18:00	分组报告二、张贴报告一、优秀学生
	18:00-19:30	晚餐自助

04

日程		会场
到注册		宾馆大堂 Hotel Lobby
A 全体委员工作会议 A 全体委员工作会议		3F-第一会议室 3F-YI XIAN HALL
	主持人	会场
zability Implies Static d Related Results	James Lam	3F-ZHONG SHAN HALL
of Heterogeneous ems through Singu	Guoxiang Gu	
uth Korea		3F-钟山厅 3F-ZHONG
ontrol of High-Order ystems	Bin Jiang	SHAN HALL
	4F-紫金/	〒 2F-MEI GUI HALL 〒 4F-ZI JIN HALL 〒 4F-JIN LING HALL
年论文评选、巾帼论坛、	特邀论坛1	
生论文评选、成长论坛4	A、特邀论坛2	
		2F-玫瑰厅 2F-MEI GUI HALL
	05	

◎●●●● 第四届全驱系统理论与应用会议

日期	时间	日程	主持人	会场		
		 1. Optimal Fully Actuated System Approach (FASA) Based Control Theory and Applications Speaker: Bin Li Sichuan University, China 			组织机构 (Conference Committee	es)
	08:15-10:15 分会场报告(一)	 Distributed online resource allocation with free-in and free-out nodes Speaker: Maojiao Ye Nanjing University of Science and Technology, China 	Baoyong Zhang		中国自动化学会全驱系统理论与应用专业委员会 亚洲控制协会全驱系统理论与应用专业委员会 承办单位: 南京理工大学自动化学院	
		 >3. Motion control of underactuated robots based on the fully actuated system approach and related appli cations >Speaker: Ning Sun Nankai University, China 		⁻ 3F-钟山厅 3F-ZHONG SHAN HALL	协办单位: IEEE Guangzhou Section 南京信息工程大学 IEEE Industrial Electronics Society 江苏省自动化学会 IEEE Nanjing Section 江苏省电机工程学会 空间目标感知全国重点实验室	1
		 4. Lightweight learning model for industrial intelligent computing: Taking the energy industry as an example Speaker: Wei Dai 	Xin Xin	-	■ 会议组织	
		 China University of Mining and Technology, China 			顾问委员会(按姓氏笔画顺序)	
月6日	08:15-10:15 分会场报告(二)	 Intelligent Perception and Control for Spacecraft Proximity Operations with Non-Cooperative Targets Speaker: Qinglei Hu Beihang University, China 	Kemin Zhou		于登云 中国航天科技集团 于海斌 中国科学院沈阳自动 王耀南 湖南大学 包为民 中国航天科技集团 付梦印 南京理工大学 乔 红 中国科学院自动化和 陈 杰 哈尔滨工业大学 郑南宁 西安交通大学	
(星期天) July 6 (Sunday)		 Constrained Control of High-Order Fully Actuated Systems Speaker: Yuanlong Li Shanghai Jiao Tong University, China 	Fei Han	4F-紫金厅	桂卫华 中南大学 曹喜滨 哈尔滨工业大学 管晓宏 西安交通大学 谭铁牛 南京大学 会议总主席	
		 >3. Feedback Shaping for Logical Dynamic Systems >Speaker: Hongsheng Qi >Academy of Mathematics and Systems Science, Chinese Academy of Sciences, China 	Dong Yue	4F-ZI JIN HALL	段广仁 哈尔滨工业大学 程序委员会	
		 A Fully Actuated System Approach to Underactu- ated Systems Control–The Example of Cubli Speaker: He Kong Southern University of Science and Technology, China 	Zhiyun Lin	-	主席 徐胜元 南京理工大学 区域主席 高会军 哈尔滨工业大学 林 参 香港大学 刘德荣 南方科技大学 施 阳 维多利亚大	
-	10:15-10:45	茶歇			谢立华 新加坡南洋理工大学 岳 东 南京邮电大 副主席 葛泉波 南京信息工程大学 潘志文 IEEE Nanji	
-	10:45-12:15	分组报告三,张贴报告二			陈 谋 南京航空航天大学 李世华 东南大学 程序委员会秘书长 蔡晨晓 南京理工大学 张 颖 哈尔滨工业	レᅷ学ィシ
-	12:15-13:00	午餐自助			程序委员会副秘书长 马 倩 南京理工大学 叶茂娇 南京理工大	
-	13:30-15:30			2F-MEI GUI HALL	程序委员会委员 全驱系统理论与应用专业委员会委员及部分特邀专家	
-	15:30-16:00	茶歇			组织委员会	
-					组织委员会主席 杨 力 南京理工大学	
-	16:00-17:00	闭幕式		3F-钟山厅 - 3F-ZHONG	组织委员会副主席 王 军 南京理工大学 马立丰 南京理工大	大学
	17:00-20:00	晚宴		SHAN HALL	殷明慧 南京理工大学 秘书长 卢 静 南京理工大学	



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Ogura, Masaki		aka University				刘国平	南方科技大学	吴爱国	哈尔滨工
Park, Ju		ungnam University				刘健行	哈尔滨工业大学	吴立刚	哈尔滨工
Tan, Chee Pin		nash University				刘路	香港城市大学	武云丽	北京控制
Teo, KokLay		tin University				刘明	哈尔滨工业大学	夏卫国	大连理工
班晓军 哈尔滨工业大学						刘腾飞	东北大学	夏元清	北京理工
蔡晨晓 南京理工大学	陈材		董志远			刘万泉	中山大学	肖峰	华北电力
蔡光斌 火箭军工程大学						刘伟	华南理工大学	谢晓晨	哈尔滨工
柴 利 武汉科技大学		阳 辽宁科技大学				刘文慧	南京理工大学	忻 欣	东南大学
陈彩莲 上海交通大学	崔3		范军方		学	刘杨	北京航空航天大学	邢兰涛	山东大学
陈辞广东工业大学	丁克					罗威威	哈尔滨工业大学	徐娟娟	山东大学
陈力恒 哈尔滨工程大学			冯俊姊			日灵灵	华北水利水电大学	徐明亮	郑州大学
陈立群 上海大学	丁傳		符方兵			马 丹	东北大学	徐胜元	南京理工
陈亮名 南方科技大学	董淮		付敏距	氏 南方科技大学		马磊	中国矿业大学	徐 翔	南方科技
陈小杰 电子科技大学	董宏	云丽 东北石油大学	高会军	🛯 哈尔滨工业大学		马立丰	南京理工大学	徐晓东	中南大学
						* +	心方波于山上兴 (海川)		비 수 교통 구

梅杰哈尔滨工业大学(深圳)

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苗子博	哈尔滨工业大学(深圳)	徐雨田	哈尔滨工业大学(深圳)
闵惠芳	南京理工大学	许文盈	东南大学
缪志强	湖南大学	闫 飞	西南交通大学
那 靖	昆明理工大学	杨嘉楠	哈尔滨工业大学
戚文念	哈尔滨工业大学	杨学博	哈尔滨工业大学
齐文海	曲阜师范学院	杨亚娜	燕山大学
丘立	香港中文大学(深圳)	杨懿	北京航空航天大学
邱剑彬	哈尔滨工业大学	杨再跃	南方科技大学
邱丽	深圳大学	杨紫雯	上海交通大学
佘 维	郑州大学	姚秀明	北京交通大学
史明明	四川大学	衣 鹏	同济大学
宋申民	哈尔滨工业大学	雍可南	南京航空航天大学
孙光辉	哈尔滨工业大学	余弦	深圳大学
孙慧杰	中山大学	余翔	北京航空航天大学
孙维超	哈尔滨工业大学	余长君	上海大学
孙 伟	聊城大学	于兴虎	
孙希明	大连理工大学	张保勇	南京理工大学
孙振东	山东科技大学	张承玺	
万雄波	中国地质大学	张丹	
王好谦	清华大学	张烽	
王宏霞	山东科技大学	张国峰	
王龙	北京大学	张恒	江苏海洋大学
王鹏	上海交通大学	张宏伟	
王茜	杭州电子科技大学	张化光	
王申全	长春工业大学	张焕水	山东科技大学
王桐	哈尔滨工业大学	张金会	
王伟	山东大学	张锦绣	中山大学
王伟	大连理工大学	张凯	四川大学
王秀博	东北大学秦皇岛分校	张柯	
王占山	东北大学	张立宪	
魏才盛	中南大学	张刘	吉林大学
温广辉	东南大学	张清瑞	中山大学
温长云	新加坡南洋理工大学	张世杰	河南工业大学
文 杰	哈尔滨工业大学(深圳)	张颖	哈尔滨工业大学(深圳)
え 派 天爱国	哈尔滨工业大学(深圳)	张中才	
吴立刚	哈尔滨工业大学	赵春晖	
武云丽	北京控制工程研究所	赵广磊	燕山大学
夏卫国	大连理工大学	赵林	新加坡国立大学
夏元清	北京理工大学	郑凯	大连海事大学
肖峰	华北电力大学	钟麦英	山东科技大学
谢晓晨	哈尔滨工业大学(深圳)	周彬	哈尔滨工业大学
忻欣	东南大学	周东华	东南大学
邢兰涛	山东大学	周克敏	南京大学
徐娟娟	山东大学	朱庆华	
徐明亮	郑州大学	朱善迎	上海交通大学
徐胜元	南京理工大学	朱延正	山东科技大学
徐翔	南方科技大学	不延正 邹 云	
徐晓东	中南大学	<u></u> 二 二 二 二	
徐勇	北京理工大学		ᅯᇦᇧᇧᇑᇦᆂᇑᇦᆺᆺᆺᆍ

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口头报告与张贴报告要求 (Instruction for Oral and Poster Presentations)

口头报告 (Oral Presentations)

●每篇论文口头报告时间为15分钟(包含讨论), 口头报告分组请参见会议程序册或会议网站 (https://fasta2025.scimeeting.cn/cn/web/index/25936 2273981)。

Oral Presentation: 15 minutes (including discussion). Please refer to the final program or the conference website (https://fasta2025.scimeeting.cn/cn/web/index/25936_2273981) about the arrangement of oral presentations.

张贴报告 (Poster Presentations)

●会议将为每篇张贴论文提供一块标准展版(宽0.8m,高1.2m)。张贴论文要求内容简洁、字迹清晰,版面可进行一定的艺术加工,字体至少可在1米以外清晰可见,用双面胶或透明胶粘贴。张贴报告PPT模板请到会议网站下载(https://fasta2025.scimeeting.cn/cn/web/index-/25936_2273981)

The conference will provide an exhibition board (width 0.8m, height 1.2 m) for each poster paper. The boards will be arranged in the order of the papers in the final program. Tape and other materials will be provided on site, and volunteers will provide necessary help. Posters are required to be condensed and attractive. The characters should be large enough so that they are visible from 1 meter apart. Please download the poster template at the conference website: https://fasta2025.scimeeting.cn/cn/web/index/25936_2273981

会场交通及周边

南京青旅宾馆坐落于南京紫金山南麓、月牙湖畔,距南京南站、新街口商圈仅十余分钟车程,酒 店周围景点众多、环境优美、交通便利。

详细地址:南京市秦淮区后标营路101号。

抵达方式:	地点	直线距离/公里(大约)	
	南京禄口国际机场	43公里	
	南京站	8.7公里	
	南京南站	11公里	

● 南京禄口国际机场至南京青旅宾馆

1.出租车:车程约43分钟,费用约140元。
 2.公交:约1小时34分钟。

南京禄口机场T1航站楼上车→乘机场巴士1号线(南京火车站东广场方向)→七里街站换乘87路 (上坊保障房总站方向)→苜蓿园大街站下车→步行697米到达青旅宾馆。

● 南京站至南京青旅宾馆

1.出租车:车程约23分钟,费用约40元。
 2.公交:约1小时3分钟。
 南京站·南广场东站上车→乘公交59路(杨庄方向)→苜蓿园大街站下车→步行697米到达青旅宾馆。

● 南京南站至南京青旅宾馆

1.出租车:车程约18分钟,费用约41元。
 2.地铁公交:约55分钟。

南京南站上车→乘地铁3号线(林场方向)→大明路4号口换乘公交99路(银城东苑方向)→后标 营路·童卫路站下车→步行175米到达青旅宾馆。

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◎● ◆● 第四届全驱系统理论与应用会议

会场环境:



• 钟山厅



• 第一会议室



• 第一教室





•第二、三会议室



• 第二教室、第三教室



•金陵厅

• 第五、六、七、八会议室

会场平面图:







第四届全驱系统理论与应用会议 三楼平面图

🙈 🐟 🔿 第四届全驱系统理论与应用会议

会场交诵周边:



南京青旅宾馆位于南京紫金山南麓、月牙湖畔

12分钟 到达明故宫/南京博物院地区商业区

38分钟 连通南京禄口国际机场

19分钟 连通南京南站

地铁: 3号线大明路4号口换乘公交99路到后标营路·童卫路站

公交: 后标营路·童卫路站

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■ 南京理工大学简介 ■

南京理工大学是隶属于工业和信息化部的全国重点大学,学校由创建于1953年的新中国军工科技最高学府中国人民解放 军军事工程学院(简称"哈军工")分建而成,历经中国人民解放军炮兵工程学院、华东工程学院、华东工学院等发展阶 段,1993年更名为南京理工大学。1995年,学校成为国家"211工程"重点建设高校:2000年,获批成立研究生院:2011 年,获批建设"985工程优势学科创新平台";2017年,学校入选"双一流"建设高校,"兵器科学与技术"学科入选"双一 流"建设学科;2018年,学校王泽山院士获得国家最高科学技术奖,同年,学校成为工信部、教育部、江苏省共建高校。进 入新时代、开启新征程、学校坚持"以人为本、厚德博学"的办学理念、秉持"讲德修业、志道鼎新"的校训、弘扬"团结、 献身、求是、创新"的校风,以服务国家战略需求、推动社会进步为使命,为党育英才、为国铸利器,围绕陆海空天信融合 发展,加快建设特色鲜明世界一流大学。

■ 南京理工大学自动化学院简介 ■

南京理工大学自动化学院前身是中国人民解放军军事工程学院(简称"哈军工")炮兵工程系指挥仪科,经过不断调整 与发展,2005年更名为南京理工大学自动化学院。学院获批第三批全国党建工作标杆院系,黄大年式教师团队党支部获批第 四批全国高校党建工作样板支部,自动控制系博士生第三党支部获第三批全国高校"百个研究生样板党支部"建设单位。 学院拥有"控制科学与工程""电气工程""智能科学与技术"3个一级学科,其中"控制科学与工程"为江苏省一级重点 学科,拥有博士学位授予权(含"控制理论与控制工程""系统工程"等5个二级学科博士点),博士后流动站和硕士学位授 予权。学院设有"自动化""电气工程及其自动化""轨道交通信号与控制""智能电网信息工程"4个本科专业。 学院现有教职工182人,其中全职院士1人、国家级教学名师2人、国家级领军人才7人、国家级青年人才10人、"全国 创新争先奖"获得者1人、"国家百千万人才工程"获评者2人。拥有全国高校黄大年式教师团队1个、教育部创新团队2个、 江苏省青蓝工程科技创新团队1个、江苏省"六大人才高峰"创新人才团队1个、教育部虚拟教研室建设试点1个、江苏省创新

团队2个。

学院现有在校本科生1584人,硕士研究生1697人,博士研究生276人。学院坚持以学科竞赛为牵引,提升学生创新实 践能力,每年获省部级以上竞赛奖励学生人次占比超过20%。近几年,获中国国际大学生创新大赛金奖1项、银奖1项,全国 大学生机器人大赛一等奖1项,全国"挑战杯"大学生科技作品竞赛特等奖2项,"互联网+"大学生创新创业大赛全国金奖1 项、银奖3项、铜奖3项,"创青春"全国大学生创业计划大赛金奖1项。

学院坚持"四个面向",锚定自主创新,经过几代人的不懈努力,形成了智能导航与火力控制、智能网信与指挥控制、 智能检测与运动控制、复杂系统智能控制理论、新能源发电控制及并网技术、军事智能交通等优势特色研究方向。"十三 五"以来,获国家科技进步一等奖、国家技术发明二等奖、国家自然科学二等奖等省部级及以上科技荣誉和奖励近20项。近 年来,承担了国家自然科学基金创新研究群体、国家重大仪器专项、中央军委科技委基础加强计划项目等一大批国家级重大 项目。

学院与国(境)外多所高校保持着良好的学术交流和科研合作关系,聘请了包括中科院院士、IFAC Fellow、IEEE Fellow 等在内的近二十名国内外知名学者任我学院的兼职教授和客座教授。近年来承办了第三届国际自主无人系统大会(2023 年)、国际信息物理社会智能会议(2022年)、第三届应用超导学术年会(2020年)、江苏省自动化学会伺服与运动控制 专委会会议(2020年)等多个国际国内会议,极大地提高了学院的学术水平和国内外的知名度。

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■■ 中国自动化学会全驱系统理论与应用专业委员会简介 ■

中国自动化学会全驱系统理论与应用专业委员会(Technical Committee on Fully Actuated System Theory and Applications, Chinese Association of Automation, CAA TC FASTA)于2023年11月得到中国自动化学会的创建批复,依托单位 为南方科技大学。专委会主任由段广仁院士担任,副主任由东南大学周东华教授、河北科技大学/燕山大学华长春教授、南 京理工大学邹云教授、山东大学冯俊娥教授、哈尔滨工业大学(深圳)吴爱国教授、南方科技大学徐翔研究院担任,专委会 秘书长由哈尔滨工业大学(深圳)张颖教授担任。该委员会旨在促进全驱系统领域内的学术交流、技术发展和人才培养,推 动全驱系统在国防、工业、农业等领域的应用和发展。

全驱系统理论与应用会议是全驱系统理论与应用专业委员会主办的系列学术年会。2022年8月5日,国家自然科学基金 委全驱系统理论与航天器控制技术基础科学中心启动仪式暨中国自动化学会全驱系统理论与应用专业委员会第一届学术研讨 会在黑龙江哈尔滨华旗饭店隆重举行,吸引了来自哈尔滨工业大学、国家自然科学基金委、中国自动化学会的领导和全国 100余专家参加会议。

2023年全驱系统理论与应用会议于2023年7月14-16日在山东省青岛市西海岸国家新区召开。会议旨在为从事相关领域 和研究的国内外专家、学者及工程技术人员提供一个学术交流平台,展示最新的理论与技术成果。今后专业委员会将扩大该 学术会议的规模,力争打造国际化的学术交流平台,增进国内学者与国际同行的交流,促进中国全驱系统理论与应用的发 展。2023年全驱系统理论与应用会议的会议主题范围涵盖全驱系统控制理论、基于全驱系统理论的鲁棒控制、非线性控制、 故障诊断与容错控制、航空航天飞行器控制等多个热门研究领域。会议共收到来自中国、加拿大、澳大利亚、新加坡等9个 国家和地区的投稿论文267篇,经过评审专家和会议程序委员会严格、认真的评审,最后共录用论文231篇(包括长摘要35 篇)。最终有190篇收入会议论文集。

2024年全驱系统理论与应用会议于2024年5月10-12日在深圳召开,由南方科技大学、中国自动化学会全驱系统理论与 应用专业委员会主办,南方科技大学系统设计与智能制造学院承办。会议共收到来自中国、法国、澳大利亚、新加坡、加拿 大、美国、日本、荷兰等12个国家和地区的投稿论文353篇,经过评审专家和会议程序委员会严格、认真的评审,最后共录 用论文308篇(包括长摘要27篇)。来自全球相关高校及研究院所的610多位专家学者参加了会议,并围绕全驱系统理论与 应用及其相关问题进行了深入的学术交流和探讨。

2025年全驱系统理论与应用会议于2025年7月4-6日在南京召开,由南京理工大学、中国自动化学会全驱系统理论与应 用专业委员会、亚洲控制协会全驱系统理论与应用专业委员会主办,南京理工大学自动化学院承办。此次会议将采用大会报 告、半大会报告、特邀论坛、分组报告、张贴论文等形式进行交流。

在新的世纪,国家航空航天、工业等领域对控制科学与工程提出了更高的要求,全驱系统理论将在更加广阔的领域显示 其巨大的活力,这也为全驱系统理论与应用专业委员会的发展提供了更广阔的天地。作为中国自动化学会诸多专业委员会中 唯一一个以中国学者原创性方法命名的专委会,我们将团结奋进、开拓创新,在中国自动化学会的领导下迅速发展壮大,谱 写全驱系统理论与应用专业委员会的新篇章。

Introduction of the ACA Technical Committee on Fully Actuated System Theory and Applications

The Technical Committee (TC) on Fully Actuated System Theory and Applications (FASTA) is established under the Asian Control Association (ACA) to pioneer and globally advance a transformative methodology in control systems. Spearheaded by Prof. Guang-Ren Duan (IEEE/IET/CAA Fellow, Academician of the Chinese Academy of Sciences), the Fully Actuated System (FAS) approach represents a paradigm shift in control design. It replaces traditional state-space models–which have dominated control theory for centuries but struggle with nonlinear and multivariable systems–with mathematically generalized FAS models. This innovative framework elegantly solves previously intractable problems in nonlinear control, including robust stabilization, adaptive control, disturbance rejection, and MIMO system design, while bridging theoretical research with practical applications in robotics, aerospace, energy systems, and intelligent manufacturing.

The establishment of this TC addresses a critical scientific need highlighted by control pioneer Alberto Isidori, who observed that feedback control design for MIMO nonlinear systems "came to a (almost complete) stall" in the mid-1990s. The FAS approach breaks this stagnation by offering a methodology as broad in scope as the state-space approach but with distinct advantages for complex dynamical systems. Despite its recent emergence (2020-2021), FAS has rapidly gained global traction, evidenced by exponential growth in publications, participation from over 15 countries (e.g., USA, UK, Japan, Australia, Turkey), and three highly successful annual FASTA conferences (2022-2024). Its technical scope spans from theoretical advances, such as robust and adaptive control, predictive control, cooperative control, and fault-tolerant control, to practical applications in areas like spacecraft, robotics, microgrids, and unmanned aerial vehicles.

The TC's mission is threefold: to accelerate cutting-edge FAS research through global collaboration, transfer theoretical advances to industrial practice, and mentor the next generation of control scientists. Its vision is to establish FAS as a foundational methodology parallel to state-space approaches, solving multivariable nonlinear control challenges that traditional frameworks cannot address.

Past achievements underscore the TC's momentum. The FASTA conference series has grown from 150+ attendees (2022) to 610+ (2024), with peer-reviewed proceedings indexed in IEEE Xplore/EI. Prof. Duan has delivered 20+ plenary talks at flagship conferences (e.g., IEEE ICRA 2021, IFAC TDS 2021), while special issues in the International Journal of Systems Science have disseminated foundational work globally. Future initiatives include ACA affiliation for FASTA conferences (from 2025), special sessions at IEEE/IFAC events, dedicated issues in Control Engineering Practice (2026) and Asian Journal of Control (2026), and annual awards for students and young researchers.

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Organized under the ACA's framework, the TC is led by the Chair, Prof. Guang-Ren Duan (Harbin Institute of Technology) and six global Vice Chairs, including Prof. Michael V. Basin (Autonomous University of Nuevo Leon), Prof. James Lam (University of Hong Kong), and Prof. Ju H. Park (Yeungnam University). An eminent Advisory Board featuring Stephen Boyd (Stanford University), Okyay Kaynak (Bogazici University), and Imre Rudas (Óbuda University) provides strategic guidance. With 120+ members spanning 15+ countries-including 40+ IEEE Fellows-the TC embodies international collaboration.

Researchers, engineers, and students worldwide are invited to join this dynamic community. We welcome you to participate in FASTA conferences, contribute to journal special issues, or explore industry-academia partnerships. For inquiries, contact Prof. Duan (g.r.duan@hit.edu.cn) or Secretaries Dr. Kemi Ding (dingkm@sustech.edu.cn) and Dr. Tao Liu (liut6@sustech.edu.cn).

大会报告 (Plenary Lectures)

Plenary Lecture 1

Speaker: Alessandro Astolfi, Imperial College London, UK Title: Dynamic linearizability implies static stabilizability and related results Chair: James Lam, The University of Hong Kong

Abstract: This talk discusses how the property of dynamic linearizability, to be understood as linearizability by means of the dynamic extension algorithm, implies the existence of static, possibly time varying, control laws yielding asymptotic output tracking with arbitrary speed of convergence and asymptotic stabilization with a computable bound on the region of attraction. Similar results hold for systems which are only input/output linearizable by means of dynamic state feedback, provided that the inverse dynamics possess certain stability properties. Applications to the problem of regional stabilization and trajectory tracking under-actuated systems are also discussed.



Alessandro Astolfi was born in Rome, Italy, in 1967. He graduated in electrical engineering from the University of Rome in 1991. In 1992 he joined ETH-Zurich where he obtained a M.Sc. in Information Theory in 1995 and the Ph.D. degree with Medal of Honor in 1995 with a thesis on discontinuous stabilization of nonholonomic systems. In 1996 he was awarded a Ph.D. from the University of Rome "La Sapienza" for his work on nonlinear robust control. Since 1996 he has been with the Electrical and Electronic Engineering Department of Imperial College London, London (UK), where he is currently Professor of Nonlinear Control Theory and College Consul for the Faculty of Engineering and Business School. From 2010 to 2022 he served as Head of the Control and Power Group at Imperial College London and from 1998 to 2003 he was an Associate Professor at the Dept. of Electronics and Information of the Politecnico of Milano. Since 2005 he has also been a Professor at Dipartimento di Ingeg-

neria Civile e Ingegneria Informatica, University of Rome Tor Vergata. He has been a visiting lecturer in "Nonlinear Control" in several universities, including ETH-Zurich (1995-1996); Terza University of Rome (1996); Rice University, Houston (1999); Kepler University, Linz (2000); SUPELEC, Paris (2001), Northeastern University, Boston (2013), the University of Cyprus (2018--), and Southeast University, China (2019--).

His research interests are focused on mathematical control theory and control applications, with special emphasis for the problems of discontinuous stabilization, robust and adaptive control, observer design and

7月5日 09:00-09:45 钟山厅 July 5, 09:00-09:45 ZHONG SHAN HALL

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model reduction. He is the author of over 190 journal papers; 30 book chapters; and over 370 papers in refereed conference proceedings. He is the author (with D. Karagiannis and R. Ortega) of the monograph "Nonlinear and Adaptive Control with Applications" (Springer-Verlag).

He is the recipient of the IEEE CSS A. Ruberti Young Researcher Prize (2007), the IEEE RAS Googol Best New Application Paper Award (2009), the IEEE CSS George S. Axelby Outstanding Paper Award (2012), the Automatica Best Paper Award (2017), and the IEEE Transactions on Control Systems Technology Outstanding Paper Award (2023). He is a "Distinguished Member" of the IEEE CSS, IEEE Fellow, IFAC Fellow, IET Fellow, and Member of the Academia Europaea. He served as Associate Editor for Automatica, Systems and Control Letters, the IEEE Trans. on Automatic Control, the International Journal of Control, the European Journal of Control and the Journal of the Franklin Institute; as Area Editor for the Int. J. of Adaptive Control and Signal Processing; as Senior Editor for the IEEE Trans. on Automatic Control; and as Editor-in-Chief for the European Journal of Control. He is currently Editor-in-Chief of the IEEE Trans. on Automatic Control (2018--). He served as Chair of the IEEE CSS Conference Editorial Board (2010-2017) and in the IPC of several international conferences. He has served as Chair of the IEEE CSS Antonio Ruberti Young Researcher Prize (2015-2021); he is Vice Chair of the IFAC Technical Board (2020-2026) and he has been a Member of the IEEE Fellow Committee (2016), (2019-2022). He is currently a member of the IEEE PSPB Strategic Planning Committee.

Plenary Lecture 2

7月5日 10:15-11:00 钟山厅 Iulv 5, 10:15-11:00 ZHONG SHAN HALL

Speaker: Hyungbo Shim, Seoul National University, South Korea Title: Synchronization of Heterogeneous Multi-agent Systems through Singular Perturbation Chair: Guoxiang Gu, Louisiana State University/Southwest Jiaotong University

Abstract: The talk begins with a brief introduction to the blended dynamics theorem. We then discuss the intuition behind the theorem using a singular perturbation interpretation. This interpretation leads to an extension of enforced synchronization via impulsive gossiping, which in turn provides a singular perturbation argument for hybrid systems. We also discuss several applications of the blended dynamics theorem.



Hyungbo Shim received his B.S., M.S., and Ph.D. degrees from Seoul National University. He was a postdoctoral researcher at the University of California, Santa Barbara, and is currently a professor at Seoul National University. He has served as an associate editor for Automatica, IEEE Transactions on Automatic Control, and the International Journal of Robust and Nonlinear Control. He is a senior member of IEEE, an IFAC Distinguished Lecturer, and a member of the Korean Academy of Science and Technology. His research interests include stability analysis of nonlinear systems, observer design, disturbance observers, secure control systems, and synchronization in multi-agent systems.

Plenary Lecture 3

Speaker: Donghua Zhou, Southeast University, China Title: Fault Tolerant Control of High-Order Fully Actuated Systems Chair: Bin Jiang, Nanjing University of Aeronautics and Astronautics

Abstract: High-order fully actuated systems are more suitable for controller design, because the whole structure is fully parameterized, and the nonlinearity can be decoupled. However, system faults may disrupt the nonlinear cancellation principle of fully actuated systems, thus fault tolerant control (FTC) of high-order fully actuated systems need to be studied, which is a key technology to improve the safety and reliability of complex systems. This report gives the latest progress of my group on the FTC of high-order fully actuated systems, including both deterministic and stochastic systems.



Donghua Zhou: Professor, doctoral supervisor at Southeast Universi-

ty, Chief Scientist of the Institute of Intelligent Unmanned Systems, and Director of the National-Local Joint Engineering Research Center for Mine Safety Detection Technology and Automation Equipment. He holds a Ph.D. from Shanghai Jiao Tong University and completed his postdoctoral studies at Zhejiang University. He has previously served as the Director of the Department of Automation at Tsinghua University, Vice President of Shandong University of Science and Technology, Chairman of the Teaching Steering Committee for Automation-related Majors in Higher Education Institutions under the Ministry of Education, member of the 6th and 7th Control Science and Engineering Discipline Evaluation Group of the State Council, and Chairman of the Fault Diagnosis and Safety Committee of the Chinese Association of Automation for three consecutive terms (the 3rd, 4th, and 5th). He is a recipient of the National Science Fund for Distinguished Young Scholars, a Distinguished Professor of the Changjiang Scholars Program, a Leading Talent of the "Ten Thousand Talents Plan," the leader of an innovative research group funded by the National Natural Science Foundation, and the head of a national university teacher team in the style of Huang Danian. He also enjoys a special government allowance from the State Council. He concurrently holds positions such as a member of the IFAC Technical Committee on Fault Detection, Supervision, and Safety for Technical Processes and Vice Chairman of the Chinese Association of Automation.

His primary research interests include fault diagnosis and fault-tolerant control of dynamic systems, as well as theories for operational safety assessment. As the first completing author, he has received three national-level awards (including two second prizes for the National Natural Science Award and one second prize for National Teaching Achievements), and five first prizes for science and technology from provincial/ministerial levels and nation.

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7月5日 11:00-11:45 钟山厅 July 5, 11:00-11:45 ZHONG SHAN HALI

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分会场报告 (Semi-plenary Lectures)

Semi-plenary Session 1

7月6日 08:15-10:15 钟山厅 July 6, 08:15-10:15 ZHONG SHAN HALL

Speakers: Bin Li	Sichuan University, China
Maojiao Ye	Nanjing University of Science and Technology, China
Ning Sun	Nankai University, China
Wei Dai	China University of Mining and Technology, China

Speaker: Bin Li, Sichuan University, China

Title: Optimal Fully Actuated System Approach (FASA) Based Control Theory and **Applications** Chair: Shaoyuan Li, Qingdao University of Science and Technology/Shanghai Jiao

Tong University

Abstract: In this talk, the optimal fully actuated system approach (FASA) based theory is presented. First, the idea of the theory is given. Then, the required numerical optimal control method is introduced. Last but not least, three applications of the optimal FASA-based control are provided to show the effectiveness and advantages of the proposed theory.



Bin Li is the professor and doctoral supervisor at School of Aeronautics and Astronautic, Sichuan University. He was selected for the National High-Level Talent Youth Program, the Sichuan Provincial Top Youth Talent Program, and Sichuan Provincial Distinguished Expert. He is a Senior Member of IEEE and serves as an editorial board member for top international journals IEEE Transactions on Neural Networks and Learning Systems and Applied Mathematical Modeling. His primary research focuses on optimization-based control theory and its applications in autonomous decision-making and control of unmanned aerial vehicles/swarms. He has published over 80 SCI-indexed journal papers, obtained more than 50 authorized national invention patents, and authored one English monograph. He has led key national projects such as Key Program of National Natural Science Foundation of China. He was awarded the 9th Youth Scientist Award by the Chinese Association of Automation.

Speaker: Maojiao Ye, Nanjing University of Science and Technology, China Title: Distributed online resource allocation with free-in and free-out nodes Chair: Baoyong Zhang, Nanjing University of Science and Technology

Abstract: In this talk, an online resource allocation problem with free-in and free-out nodes is introduced. A distributed online optimization algorithm is constructed for agents to achieve the minimization of their total cost while satisfying local box constraints and a global balancing equality constraint. In the developed algorithm, the agents update their decision variables and dual variables via the projected gradient method and dual averaging method, respectively. A dynamic regret and an accumulation of constraint violation are introduced as performance indices of evaluating the established algorithm.



Prof. Ye was a recipient of the Young Scientist Award from the Chinese

Association of Automation in 2023, Guan Zhao-Zhi Award in the 36th Chinese Control Conference 2017, and the Best Paper Award in the 15th IEEE International Conference on Control and Automation 2019. She received the National Natural Science Fund for Excellent Young Scholars in 2022. She was selected into the 7th Young Elite Scientists Sponsorship Program by the China Association for Science and Technology (CAST). Prof. Ye is an Associate Editor of IEEE Transactions on Industrial Informatics, IEEE/CAA Journal of Automatica Sinica, Control Engineering Practice, and IEEE CSS Conference Editorial Board. She is the Vice-Chair of IEEE IES Technical Committee on Network-Based Control Systems and Applications and Secretary of ACA Technical Committee on MetaSystems and MetaControl.

Maojiao Ye received the B.Eng. degree in automation from the University of Electronic Science and Technology of China, Sichuan, China, in 2012 and the Ph.D. degree from Nanyang Technological University, Singapore, in 2016. She was a research fellow in the School of Electrical and Electronic Engineering at Nanyang Technological University from 2016 to 2017. She is currently a Professor with the School of Automaton, Nanjing University of Science and Technology. Her research interests include game theory, distributed optimization, and their applications.

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Speaker: Ning Sun, Nankai University, China Title: Motion control of underactuated robots based on the fully actuated system approach and related applications

Chair: Yanzheng Zhu, Shandong University of Science and Technology

Abstract: In practice, many mechanical systems, such as naval vessels, cranes, and helicopters, are underactuated to reduce energy consumption and enhance flexibility. However, compounded by strong nonlinearity arising from state coupling, the underactuated nature and high-order unavailable states pose significant challenges to motion control (particularly for un-actuated states lacking independent actuators or kinematic constraints). This talk mainly discusses the method of rearranging nonlinear underactuated systems into high-order linear fully-actuated systems, and further introduces an adaptive control method based on the fully actuated system approach, as well as a universal and scalable analysis method. In addition, the fully actuated system approach is applied to pneumatic artificial muscle-actuated robots, where their disturbance rejection and hysteresis modeling problems are considered. Finally, comparative tests on hardware platforms verify the feasibility of the proposed methods based on the fully actuated system approach.



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Ning Sun is a Young Scholar of the Changjiang Scholars Program and a professor with Nankai University, Tianjin, China, and the Shenzhen Research Institute of Nankai University, Shenzhen, China. He received the B.S. degree in measurement & control technology and instruments from Wuhan University, Wuhan, China, in 2009, and the Ph.D. degree in control theory and control engineering from Nankai University, Tianjin, China, in 2014; he was a Japan Society for the Promotion of Science (JSPS) Fellow from 2018 to 2019. His research interests include intelligent control for mechatronic/robotic systems with an emphasis on (industrial) applications. Dr. Sun received the 2021 IEEE Transactions on Industrial Electronics Outstanding Paper Award, the Machines 2021 Young Investigator Award, the 2019 Wu Wenjun Artificial Intelligence Excellent Youth Award, the ICCAR 2022 Young Scientist Award, the 2024 IEEE Transactions on Systems, Man,

and Cybernetics: Systems Outstanding Associate Editor Award, the 2023 International Journal of Control, Automation, and Systems Best Associate Editor, and several outstanding journal/conference paper awards. He serves as an Associate Editor for several journals, including the IEEE Transactions on Industrial Electronics, IEEE Transactions on SMC: Systems, IEEE Transactions on Intelligent Transportation Systems, and IEEE/ASME Transactions on Mechatronics. He is a Senior Member of the IEEE.

Speaker: Wei Dai, China University of Mining and Technology, China Title: Lightweight learning model for industrial intelligent computing: Taking the energy industry as an example Chair: Xin Xin, Southeast University

Abstract: The deep integration of new-generation artificial intelligence (AI) technologies with the manufacturing industry is driving a profound industrial transformation. As a cornerstone of China's energy supply system, coal plays a fundamental role in both energy security and system regulation. In alignment with the national "dual carbon" development strategy, the coal industry is gradually evolving from automation and informatization toward intelligentization. However, in practical production settings, the industry faces a series of challenges, such as difficulties in detecting key operational indicators like product guality and yield, time-varying working conditions, unclear mechanisms, complexity in control method design, and challenges in validating control systems due to intricate control structures. These issues present new challenges for the intelligent transformation of the energy and resources sector. This report introduces a lightweight machine learning model and, taking the coal industry as a case study, addresses its real-world intelligentization needs. By integrating data and domain knowledge, combining intelligent behavior with intelligent methodologies, and merging modeling with control, the report demonstrates how AI technologies can be applied to the coal preparation process. The goal is to achieve AI-driven modeling and operational optimization control for coal sorting. Finally, the report explores new opportunities and challenges brought by the industrial internet in the realm of intelligent computing.



Wei Dai is a Full Professor and Vice Dean of the School of Information and Control Engineering, China University of Mining and Technology, where he also supervises PhD candidates. He is a recipient of the National Young Talents Program, the Jiangsu Distinguished Young Scholars Fund, and the Jiangsu Excellent Young Scholars Fund. He has also been recognized as an Excellent Young Backbone Teacher under Jiangsu's "Qinglan Project" and is a IEEE Senior Member. He currently serves as a council member of the Jiangsu Association of Automation and the Jiangsu Coal tional optimization control of complex process industrial systems, as well as next-generation AI methodologies such as federated learning and awards, including the Second Prize of the Ministry of Education Natural Science Award, the First Prize of the Liaoning Patent Award, the Youth

Society. His main research interests include AI-driven modeling and operaincremental learning. His research has been recognized with multiple Science and Technology Award of the Chinese Association of Automation (CAA), the Youth Science and Technology Award of China Coal Society, the First and Second Prizes of CAA Natural Science Awards, the Second Prize of the CAA Science and Technology Progress Award, the Innovation Award (Individual) from the China Industry-University-Research Institute Collaboration Association, and the Third Prize of Jiangsu Science and Technology Award. He has successfully transferred four patents into application.

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Semi-plenary Session 2

7月6日 08:15-10:15 紫金厅 July 6, 08:15-10:15 ZI JIN HALL

Speakers: Qinglei Hu	Beihang University, China
Yuanlong Li	Shanghai Jiao Tong University, China
Hongsheng Qi	Chinese Academy of Sciences, China
He Kong	Southern University of Science and Technology, China

Speaker: Qinglei Hu, Beihang University, China

Title: Intelligent Perception and Control for Spacecraft Proximity Operations with **Non-Cooperative Targets**

Chair: Kemin Zhou, Nanjing University

Abstract: Spacecraft proximity operations with non-cooperative targets, as enabling technologies for some current and near-future missions such as removing space debris, repairing defunct satellites, etc., have garnered extensive attention. The success of these missions heavily relies on accurate target perception and safe proximity control. However, the non-cooperative nature of targets and the complexities of the space environment pose significant challenges for the target perception and control of spacecraft proximity operations. In this talk, I would like to share our recent research advances on the intelligent perception and control for spacecraft proximity operations with non-cooperative targets. The main research contents include: 1) intelligent target perception in the complex space environment, including representation and determination of semantic information, three-dimensional reconstruction, and pose measurement of space non-cooperative targets; 2) reinforcement-learning-based intelligent proximity control under complex motion and physical constraints; 3) simulation and experimental validation of the proposed method in typical scenes. The research results provide significant theoretical



and technical support for the autonomous manipulation and control of space non-cooperative targets. Finally, I shall close by discussing on-going and future research avenues that can further address some practical engineering problem in spacecraft proximity operations.

Qinglei Hu obtained his B.Eng. degree in electrical and electronic engineering from Zhengzhou University, Zhengzhou, China, in 2001, and his Ph.D. degree with the specialization in guidance and control from Harbin Institute of Technology, Harbin, China, in 2006. From 2003 to 2014, he was with the Department of Control Science and Engineering, Harbin Institute of Technology, and then he joined Beihang University in 2014 as a Full Professor. His current research interests include intelligent perception and control, fault diagnosis and fault-tolerant control, and their applications in autonomous spacecraft systems. He has published five monographs in Elsevier, Springer, etc., and 80+ journal papers in IEEE transactions and AIAA journals. He has authorized 30+ national invention patents. He has won the second prize of national Technological Invention Award and the first prize of national defense technological invention Award. He has been appointed the Changjiang Distinguished Professorship, and has been selected as Thomson Reuters Highly Cited Researchers from 2016-2022. Currently, he serves as an Associate Editor for Aerospace Science and Technology.

Speaker: Yuanlong Li, Shanghai Jiao Tong University, China Title: Constrained Control of High-Order Fully Actuated Systems Chair: Fei Han, Shanghai Aerospace Control Technology Institute

Abstract: High-order fully actuated system (HOFAS) approach presents a promising framework for addressing nonlinear control problems. However, the efficacy of this methodology is constrained by prevalent physical limitations in practical engineering applications. Specifically, system state constraints restrict the design freedom of feedback gains, thus preventing the arbitrary assignment of closed-loop poles. On the other hand, input saturation constraints compromise the system's full-actuation property. Consequently, the pre-designed controllers may fail to completely eliminate the inherent system nonlinearities and establish the desired closed-loop linear dynamics. This report introduces two methods for handling constrained control problems in HOFAS, namely, explicit reference governor design and anti-windup compensa-



tion.

Yuanlong Li is currently a Professor at Shanghai Jiao Tong University. He received the Ph.D. degree in control theory and control engineering from Shanghai Jiao Tong University, Shanghai, China, in 2015. He was a Visiting Graduate Student with the Charles L. Brown Department of Electrical and Computer Engineering, University of Virginia, Charlottesville, USA, from September 2011 to August 2012. He served as Principal Investigator for the NSFC Excellent Young Scientists Fund Project. His research interests include nonlinear control theory and constrained control systems.

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Speaker: Hongsheng Qi, Chinese Academy of Sciences, China Title: Feedback Shaping for Logical Dynamic Systems Chair: Dong Yue, Nanjing University of Posts and Telecommunications

Abstract: Logical dynamic systems (LDS) are a class of discrete-time dynamic systems where states and inputs take values from finite sets, and evolution follows logical rules (such as Boolean functions). They arise in various application domains, such as biology, computer networks, and social networks etc. The representation and control of such systems have attracted much attention in recent years. In a parallel line of research, Koopman developed an operator view of nonlinear dynamical systems, which shows that, by making use of observable functions, every nonlinear dynamics can be represented as a (possibly infinite dimensional) linear system. In this talk, we first present a Koopman representation for LDS. Then, we establish a necessary and sufficient condition for shaping the closed-loop dynamics via feedback into any desired form for logical systems under the representation, and we develop a feedback control synthesis algorithm to solve this feedback shaping problem.



Hongsheng Qi received his Ph.D. degree in systems theory from Academy of Mathematics and Systems Science, Chinese Academy of Sciences in 2008. From July 2008 to May 2010, he was a postdoctoral fellow in the Key Laboratory of Systems Control, Chinese Academy of Sciences. He currently is a professor with the Academy of Mathematics and Systems Science, Chinese Academy of Sciences. His research interests include logical dynamic systems, game theory, guantum networks, etc. He was a recipient of "Automatica" 2008-2011 Theory/Methodology Best Paper Prize in 2011 and a recipient of a second National Natural Science Award of China in 2014.

Speaker: He Kong, Southern University of Science and Technology, China Title: A Fully Actuated System Approach to Underactuated Systems Control-The Example of Cubli Chair: Zhiyun Lin, Southern University of Science and Technology

Abstract: The Cubli is an interesting underactuated mechatronics system with reaction wheels mounted on its three faces. It can balance on one of its corners or edges by applying torques to the reaction wheels. Existing methods use linearization-based LQR or backstepping methods for its attitude control. In this talk, we will discuss our attempts on adopting the fully actuated system (FAS) approach to attitude control of Cubli, touching on aspects of model transformation, disturbance rejection, and closed-loop control.



He Kong received the Bachelor's degree in Electrical Engineering from

China University of Mining and Technology, Xuzhou, China, Master's degree in Control Science and Engineering from Harbin Institute of Technology, Harbin, China, and the Ph.D. degree in Electrical Engineering from the University of Newcastle, Australia, respectively. He was a Research Fellow at the Australian Centre for Field Robotics, the University of Sydney, Australia, during 2016-2021. In early 2022, he joined the Southern University of Science and Technology, Shenzhen, China, where he is currently an Associate Professor. His research interests include active multi-modal perception, robot audition, state estimation, control applications. He is currently serving on the editorial board of IEEE Robotics and Automation Letters, IEEE Robotics and Automation Magazine, IEEE Sensors Letters, International Journal of Adaptive Control and Signal Processing, Proceedings of the IMechE-Part I: Journal of Systems and Control Engineering, Journal of Climbing and Walking Robots. He has also served as an Associate Editor on the IEEE CSS Conference Editorial Board and for the IEEE RAS flagship conferences such as the IEEE ICRA, IEEE/RSJ IROS, IEEE CASE, etc. As a co-recipient, he has received several awards, including the Best Paper Award at the 14-th International Conference on Indoor Positioning and Indoor Navigation in 2024, the Outstanding Poster Prize at the 5th Annual Conference of China Robotics Society in 2024, a Finalist for the Young Author Award at the 1st IFAC Workshop on Robot Control in 2019.

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特邀论坛 (Invited Forums)

巾帼论坛				三楼第三会议室		
时间	报台	与人	单位	报告题目	论坛主席	
	赵礼	 季晖	浙江大学	大语言模型赋能的工业过程故障语义表达与零样本诊断		
	蒲红	华燕	重庆大学	非稳定约束扰动下智能无人系统目标探测识别关键技术与应用		
7月5日 13:30-15:30	杨	懿	北京航空航天大学	高分辨率超动态光场显微成像关键技术研发及应用	董海荣 赵春晖	
_	和雪	望利	华东理工大学	探索之路:复杂网络-多智能体系统-电氢耦合能源系统		
	刘	璐	香港城市大学	自主系统的智能控制:挑战与探索	_	

特邀论坛1			三楼第二会议室		
时间	报告人	单位	报告题目	论坛主席	
7月5日 13:30-15:30	洪奕光	同济大学	非线性系统的安全性验证和控制设计		
	段志生	北京大学	线性系统中多输入的本质作用		
	刘腾飞	东北大学	动态不确定性影响下的安全控制	 曾志刚 洪奕光	
	赵珺	大连理工大学	典型工业装备建模仿真及流场重构		
	何潇	清华大学	动态系统的实时安全性评估技术		

特邀论坛2			三楼第二会议室		
时间	报告人	单位	报告题目	论坛主席	
	华长春	河北科技大学/燕山大学	非线性系统无模型全驱自适应控制及应用		
	孙健	北京理工大学	网络化系统数据驱动控制研究进展		
7月5日 16:00-18:00	柴 利	浙江大学	大规模图信号处理及其在若干应用中的新结果	钟伟民 华长春	
	虞文武	东南大学	网络群体智能自主协同控制		
	程鹏	浙江大学	协同制造场景多智能体通信与计算探索		

特邀论坛3			三楼第二会议》		
时间	报告人	单位	报告题目	论坛主席	
	李世华	东南大学	机电系统建模、分析及安全抗干扰控制研究进展		
	赵旭东	大连理工大学	切换系统时间驱动切换控制设计		
7月6日 13:30-15:		哈尔滨工业大学	航天器轨道威胁智能感知与自主规避		
	温广辉	东南大学	网络群体智能理论与技术		
	孙长银	安徽大学	试错驱动具身智能学习与进化		

成长论	坛A			三楼第三会
	时间	姓名	单位	点评专家
		徐占伯	西安交通大学	田玉平
		薛文超	中科院系统所	严怀成
	7月5日 16:00-18:00	刘明	哈尔滨工业大学	 秦家虎
		古槿	清华大学	余 翔
		张言军	北京理工大学	 张立宪

论坛B			三楼第三部
时间	姓名	单位	点评专家
	蔡声泽	浙江大学	张焕水
	周 敏	北京交通大学	
	郭露露	同济大学	—————————————————————————————————————
7月6日 13:30-15:30	车杭骏	西南大学	吴争光
	赵亮	大连理工大学	
	喻 骁	厦门大学	─────────────────────────────────────
	权浩	南京理工大学	张立宪

	三楼第二会议室		
Ī	论坛主席		
2.111.111.1111.1111.1111.1111.1111.111	2. 注册		

会议室

≩议室



Technical Program

PL1	July 5, 09:00-09:45
大会报告1	三楼钟山厅
Plenary Lecture 1	ZHONG SHAN HALL

Chair: James Lam The University of Hong Kong PL1 Dynamic linearizability implies static stabilizability and related results Speaker: Alessandro Astolfi Imperial College London, U.K.

PL2	July 5, 10:15-11:00
大会报告2	三楼钟山厅
Plenary Lecture 2	ZHONG SHAN HALL

Chair: Guoxiang Gu Louisiana State University/Southwest Jiaotong University PL2 Synchronization of Heterogeneous Multi-agent Systems through Singular Perturbation Speaker: Hyungbo Shim Seoul National University, South Korea

PL3	July 5, 11:00-11:45
大会报告3	三楼钟山厅
Plenary Lecture 3	ZHONG SHAN HALL

Chair: Bin Jiang

Nanjing University of Aeronautics and Astronautics

PL3 Fault Tolerant Control of High-Order Fully Actuated Systems

Speaker: Donghua Zhou Southeast University, China

Parallel Session 1 分会场报告1 Semi-plenary Session 1	July 6, 08:15-10:15 三楼钟山厅 ZHONG SHAN HALL
► PS1-1	08:15-08:45
Chair: Shaoyuan Li	Qingdao University of Sc
PS1 Optimal Fully Actuated Syst	em Approach (FASA) Bas
Speaker: Bin Li	Sichuan University, Chin
▶ PS1-2	08:45-09:15
Chair: Baoyong Zhang	Nanjing University of Sc
PS2 Distributed online resource	allocation with free-in a
Speaker: Maojiao Ye	Nanjing University of Sc
► PS1-3	09:15-09:45
Chair: Yanzheng Zhu	Shandong University of
PS3 Motion control of underactua	ated robots based on the f
Speaker: Ning Sun	Nankai University, China
▶ PS1-4	09:45-10:15
Chair: Xin Xin	Southeast University
PS4 Lightweight learning model	for industrial intelligent of
Speaker: Wei Dai	China University of Mini

Parallel Session 2 分会场报告2 Semi-plenary Session 2	July 6, 08:15-10:15 四楼紫金厅 ZI JIN HALL
▶ PS2-1	08:15-08:45
Chair: Kemin Zhou	Nanjing University
PS1 Intelligent Perception and C	Control for Spacecraft Pr
Speaker: Qinglei Hu	Beihang University, Ch
► PS2-2	08:45-09:15
Chair: Fei Han	Shanghai Aerospace C
PS2 Constrained Control of High	o-Order Fully Actuated S
Speaker: Yuanlong Li	Shanghai Jiao Tong Ur
► PS2-3	09:15-09:45
Chair: Dong Yue	Nanjing University of P
PS3 Feedback Shaping for Logic	al Dynamic Systems
Speaker: Hongsheng Qi	Chinese Academy of S
► PS2-4	09:45-10:15
Chair: Zhiyun Lin	Southern University of
PS4 A Fully Actuated System Ap	proach to Underactuate
Speaker: He Kong	Southern University of

The 4th Conference on Fully Actuated System Theory and Applications



cience and Technology/Shanghai Jiao Tong University ased Control Theory and Applications ina

- cience and Technology and free-out nodes
- cience and Technology, China
- Science and Technology fully actuated system approach and related applications าล

computing: Taking the energy industry as an example ing and Technology, China



Proximity Operations with Non-Cooperative Targets hina

- Control Technology Institute
- Systems
- Iniversity, China

Posts and Telecommunications

- Sciences, China
- Science and Technology
- ed Systems Control–The Example of Cubli
- Science and Technology, China

33

巾帼论坛	三楼第三会议室	7月5日13:30-15:30	特邀论坛3	三楼第二会议室
论坛主席: 董海荣 山东 ≉	4技大学; 赵春晖 浙江大学		论坛主席: 冯俊娥 山东大学	2; 李世华 东南大学
赵春晖 浙江大学			▶ 李世华 东南大学	
告题目:大语言模型赋	能的工业过程故障语义表达与零样本诊断		报告题目:机电系统建模、	分析及安全抗干扰控制研究进展
蒲华燕 重庆大学			▶ 赵旭东 大连理工大学	
告题目:非稳定约束扰	动下智能无人系统目标探测识别关键技术与应用		报告题目: 切换系统时间驱i	动切换控制设计
杨 懿 北京航空航天	大学		▶ 邱剑彬 哈尔滨工业大学	
告题目: 高分辨率超动	态光场显微成像关键技术研发及应用		报告题目: 航天器轨道威胁	智能感知与自主规避
和望利 华东理工大学			▶ 温广辉 东南大学	
告题目:探索之路:复杂	网络-多智能体系统-电氢耦合能源系统		报告题目:网络群体智能理	论与技术
刘 璐 香港城市大学			▶ 孙长银 安徽大学	
贤告题目:自主系统的 智	能控制:挑战与探索		报告题目:试错驱动具身智能	能学习与进化
}邀论坛1	三楼第二会议室	7月5日13:30-15:30	成长论坛A	三楼第三会议
坛主席: 曾志刚 华中科	4技大学; 洪奕光 同济大学		点评专家:田玉平 严怀成 孝	医多皮 全翔 张立宪
洪奕光 同济大学			 除了 除占伯 西安交通大学 	
告题目:非线性系统的	安全性验证和控制设计		 ▶ 薛文超 中科院系统所 	
段志生 北京大学			 ▶ 刘 明 哈尔滨工业大学 	
告题目:线性系统中多	输入的本质作用		 ▶ 古 槿 清华大学 	
刘腾飞东北大学			 ▶ 张言军 北京理工大学 	
告题目:动态不确定性	影响下的安全控制			
赵 珺 大连理工大学			라도〉\p	一接续一合议
告题目: 典型工业装备	建模仿真及流场重构		成长论坛B	三楼第三会议
何 潇 清华大学			点评专家:张焕水 刘万泉	吴争光 陈阿莲 张立宪
告题目:动态系统的实	时安全性评估技术		▶ 蔡声泽 浙江大学	
邀论坛 2	三楼第二会议室	7月5日16:00-18:00	▶ 周 敏 北京交通大学	
			▶ 郭露露 同济大学	
云主席: 钟伟民 华东西	瞿工大学; 华长春 河北科技大学/燕山大学		▶ 车杭骏 西南大学	
华长春 河北科技大学	/燕山大学		▶ 赵 亮 大连理工大学	
告题目:非线性系统无	模型全驱自适应控制及应用		▶ 喻 骁 厦门大学	
孙 健 北京理工大学			▶ 权 浩 南京理工大学	
告题目: 网络化系统数	据驱动控制研究进展			
柴 利 浙江大学				
告题目: 大规模图信号	处理及其在若干应用中的新结果			
虞文武 东南大学				
告题目: 网络群体智能	自主协同控制			
程 鹏 浙江大学				



The 4th Conference on Fully Actuated System Theory and Applications



7月6日13:30-15:30



7月5日16:00-18:00

7月6日13:30-15:30



◎●●● 第四届全驱系统理论与应用会议

Saturday, July 05, 2025 下午第一场

四楼牡丹厅	13:30-15:10	SaA02	三楼第
uth Paper Award		Invited Session: Fully Ac jing University of Aeron	
		Chair: Ke Zhang	Nanjing Universit
		Co-Chair: Kenan Yong	Nanjing Universit
		SaA02-1	13:30-13:45
· · · · · · · · · · · · · · · · · · ·			tem Approach Based Fault-Tole
Southern oniversity of science and rechnology			Nanjing Universit
		Qiyang Miao	Nanjing Universit
13:50-14:10		Jingping Xia	Nanjing Universi
/oltage Control for DC Microgrids With Constant Power Loads		Bin Jiang	Nanjing Universi
		Ke Zhang	Nanjing Universi
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			13:45-14:00
The Hong Kong Polytechnic University		0101 Re-planning of Reconnaissand	
			Nanjing Universi
14:10-14:30		-	Nanjing Universi
		Bin Jiang	Nanjing Universi
		SaA02-3	14:00-14:15
			Nanjing Universi
		Ruiyun Qi	Nanjing Universi
14:30-14:50		I SaA02-4	14:15-14:30
igh-Order Fully Actuated Systems With Dead-Zone Observers		0400 Adaptive Trajectory Tracking C	Control of Quadrotor UAV unde
		Aize Li	Nanjing Universi
Tsinghua University		Liyan Wen	NanJing Universt
		Liu Sirui	Nanjing Universi
14:50-15:10		l SaA02-5	14:30-14:45
		-	Nanjing Universit
			Nanjing Universi
		Hongyuan Zheng	Nanjing Universi
		SaA02-6	14:45-15:00
		0482 Flexible Performance-based F	ully Actuated Control for Mech
		Kenan Yong	Nanjing Universi
		SaA02-7	15:00-15:15
		0598 Stabilization and Tracking Con	ntrol of Underactuated Unman
		Qi Pan	Nanjing Universi
		Tengteng Zeng	Nanjing Universi
		Xiuhui Peng	Nanjing Universi
		I SaA02-8	15:15-15:30
		0604 Discrete-time fractional-order	
		Yiqi Chen shuyi Shao	Nanjing Universit Nanjing Universit
	 Poltage Control for DC Microgrids With Constant Power Loads The Hong Kong Polytechnic University Southern University of Science and Technology University of Adelaide The Hong Kong Polytechnic University 14:10-14:30 echanism for networked nonlinear systems via output-feedback control Nanjing University of Science and Technology 	rr Fully Actuated Systems with Multiple Disturbances Using Dual-Disturbance Observer Southern University of Science and Technology 13:50-14:10 Voltage Control for DC Microgrids With Constant Power Loads The Hong Kong Polytechnic University Southern University of Science and Technology University of Adelaide The Hong Kong Polytechnic University 14:10-14:30 echanism for networked nonlinear systems via output-feedback control Nanjing University of Science and Technology Nanjing University of Science and Technology 14:30-14:50 14:50-15:10 Adaptive Dynamic Programming for Nonlinear Fully Actuated Systems Harbin Institute of Technology Harbin Institute of Technology	13:30-13:50 Chair: Ke Zhang 13:30-13:50 Southern University of Science and Technology Southern University of Science and Technology I saA02-1 13:50-14:10 Objang Control for Kinopits with Constant Power Loads The Hong Kong Polytechnic University Southern University of Science and Technology University of Adelaide I saA02-1 University of Science and Technology I saA02-2 University of Science and Technology I saA02-2 University of Science and Technology I saA02-2 University of Science and Technology I saA02-3 Nanjing University of Science and Technology I saA02-3 Nanjing University of Science and Technology I saA02-3 Nanjing University of Science and Technology I saA02-1 Nanjing University of Science and Technology I saA02-3 Nanjing University of Science and Technology I saA02-4 Up Ower University I saA02-5 Uddetter University I saA02-5 Uddetter University I saA02-5 Us Science State

议室

13:30-15:30

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Vessel with High-Order Fully Actuated System Approach in GPS-Denied Environments ronautics and Astronautics ronautics and Astronautics ronautics and Astronautics

ased on fully actuated system theory and disturbance observer ronautics and Astronautics ronautics and Astronautics



SaA03	三楼第四会议室	13:30-15:30	SaA04	三楼第五会议
nvited Session: Recent Theory	Developments on Control and Optimization b	ased on Fully Actuated System		ctuated System, Intelligent Percept in Fully Actuated System Approac
Chair: Da-Wei Zhang Co-Chair: Xiubo Wang	Southern University of Science and Technolog Northeastern University at Qinhuangdao	ду	Chair: Lingling Lv Co-Chair: Yang Liu	North China University of Wa Beihang University (BUAA)
SaA03-1	13:30-13:45		I SaA04-1	13:30-13:45
37 Adaptive Fully Actuated Prescrib	d Performance Control for Combined Spacecraft with Unknown Inertia	l Parameters		onholonomic systems: A fully actuated systems m
uangquan Duan	Harbin Institute of Technology		Jiaming Zhang	Beihang University
Xiaoguang Wang	NORINCO GROUP Aviation Ammunition Resea	arch Institute Co., Ltd.	Yang Liu	Beihang University
Yuxin Liang	Harbin Institude of Technology	1	Ben Niu	Shandong Normal University
Qi Wang	Norinco Group Air Ammunition Research Insti		I SaA04-2	13:45-14:00
bowen yu Vianglei Meng	China Ordnance Industry Group Aviation Amr	munition Research Institute Co., Ltd		ed Gradient Descent with Time-varying Global Opt
(ianglei Meng	AAI		Wenling Li	Beihang University
SaA03-2	13:45-14:00		Yifu Lin	Beihang University
591 Predictive Control for A Type of	JASs with Unmatched Disturbances based on FAS Approaches		fild Elli	beinding oniversity
Kiubo Wang	Northeastern University at Qinhuangdao		I SaA04-3	14:00-14:15
ixue Xu	Harbin Institute of Technology		0310 Evolutionary dynamics of co	operation in structured public goods game with a
SaA03-3	14:00-14:15		Ju Han	University of Electronic Scien
	ormance Control for Perturbed Robotic Manipulators: A Fully Actuated	System Approach	Xiaojie Chen	University of Electronic Scien
'i Ding	Harbin Institute of Technology	J. S. C. M. P. P. C. C. L.	I SaA04-4	14:15-14:30
iuangren Duan	Harbin Institute of Technology			
-			Hangi Sun	stacle avoidance navigation based on hierarchica University of Electronic Scien
5aA03-4	14:15-14:30		Rui Li	University of Electronic Scien
	Buck Converter Systems with Time Delays Based on Fully Actuated Sys	stem Theory	Tian Min	University of Electronic Scien
aoran Dai	Wuhan University		Ying Jing Shi	University of Electronic Scien
loping Liu longcheng Lei	Southern University of Science and Technolog Wuhan University	уу		oniversity of Electionic Scien
enshan Hu	Wuhan University		SaA04-5	14:30-14:45
ong Zhou	Wuhan University		0628 固定拓扑下一阶线性多智能体系	
in Zhang	Wuhan University		日灵灵	华北水利水电学院
_			李罡	华北水利水电大学
SaA03-5	14:30-14:45		SaA04-6	14:45-15:00
	ve Control for Submarines Using SDU Decomposition: A FAS Approach			pach of prescribed-time spacecraft elliptical orbita
Zhijun Chen	Harbin Institute of Technology		Xiangyu Gao	Guangxi Normal University
Guangren Duan	Harbin Institute of Technology		Mengjie Chen	Guangxi Normal University
SaA03-6	14:45-15:00		Lingling Lv	North China University of Wa
381 High-gain Observer-based Out	ut Feedback Stabilization for Nonlinear Systems with Quantized Input	Signal: A Fully Actuated System Approach	2	
in Liu	Harbin Institute of Technology		SaA04-7	15:00-15:15
uangren Duan	Harbin Institute of Technology			Control Channels in a PMSG Grid-Integrated System
SaA03-7	15:00-15:15		Xin Wang	Nanjing University of Science
	ance control for discrete systems based on interval observers		Puyu Wang	Nanjing University of Science
JuanZhi Liu	Jilin University		Tianming Gu	Nanjing University of Science
ia-Kun Zhang	Shanghai Institute of Spaceflight Control Tech	hnology	Linpei Hu	Nanjing University of Science
i-Song Sun	Northeastern University	57	Yu Sheng	Nanjing University of Science
'ang Xiao	Jilin University		SaA04-8	15:15-15:30
Guowei Fan	Jilin University		0311 Fault Detection Set-Valued 0	Dbserver Design for Discrete-Time Nonlinear Syste
Liu Zhang	Jilin University		Weijie Ren	Southern University of Scien
SaA03-8	15:15-15:30		He Kong	Southern University of Scien
			Guangren Duan	Harbin Institute of Technolog
1665 Inverter Impedance Modelling a Ruitong Zhang	nd Stability Analysis Based on Virtual Synchronous Generator Control Nanjing University of Science and Technology			
unony znany				
IVII Wang		V		
uyu Wang Jengpan Sun	Nanjing University of Science and Technology Nanjing University of Science and Technology	-		



The 4th Conference on Fully Actuated System Theory and Applications

议室

13:30-15:30

eption and Control; 新能源电力系统控制-全驱系统方法; oach with System Uncertainties

Water Conservancy and Electric Power

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Water Conservancy and Electric Power

vstem Based on Grid-Forming Control nce and Technology

ystems Based on Fully Actuated System Approach ence and Technology ence and Technology ology



SaA05 Invited Session: 全驱 of multi-agent syster	三楼第六会议室 13:30-15:30 系统理论及其在航空航天领域的应用; Autonomous sensing and collaborative control ms		三楼第七会议 rsis and optimization design for c nt Advances on Nonlinear Dynam
Chair: 侯明哲 Co-Chair: 蔡光斌	哈尔滨工业大学 火箭军工程大学	Chair: Jun Hu Co-Chair: Lei Zou	Harbin University of Scienc Brunel University London
SaA05-1	13:30-13:45	I SaA06-1	13:30-13:45
	ed Prescribed Performance Fault-Tolerant Tracking Control for Morphing Aircraft		crete Uncertain T-S Fuzzy Delayed Systems: Atta
liqi Ye	Rocket Force University of Engineering	Zhiyuan Zuo	Harbin University of Scienc
ui Xu	Rocket Force University of Engineering	Na Lin	Harbin University of Scienc
uen Fan	Rocket Force University of Engineering	Hongxu Zhang	Harbin University of Scienc
Encheng Dai	Rocket Force University of Engineering	Liu Hao	Harbin University of Science
uang-Bin Cai	Xi'an Research Institute of High-Tech	Jun Hu	Harbin University of Science
SaA05-2	13:45-14:00	SaA06-2	13:45-14:00
		070 Lead-Time Affine Formation	Control of Multi-agent Systems under Actuator Fa
Xuen Fan	for a Linear Parameter-Varying Model of Morphing Aircraft Rocket Force University of Engineering	Jiawei Pi	Harbin University of Science
Tong Wu	Rocket Force University of Engineering	Chong Tan	Harbin University of Science
Guang-Bin Cai	Xi'an Research Institute of High-Tech	Yanjiang Li	Harbin University of Science
Juang-bin Car		SaA06-3	14:00-14:15
SaA05-3	14:00-14:15	083 Fault Detection for Markov J	ump Systems Against Deception Attacks Under Cr
189 Data Fusion Algorithm for	Redundant Gyroscope System Based on Differential Layout Array	Siteng Ma	Harbin University of Science
ixiang Lu	Rocket Force University of Engineering	Weilu Chen	Harbin University of Science
iang Xue	Rocket Force University of Engineering	Xiaolong Yang	Harbin University of Science
Guang-Bin Cai	Xi'an Research Institute of High-Tech	Zhihui Wu	Harbin University of Science
Guoyuan He	Northwestern Polytechnical University	Jun Hu	Harbin University of Science
SaA05-4	14:15-14:30	SaA06-4	14:15-14:30
66 Fixed-time Incremental Sli	iding Mode Control of Aircraft with Actuator Faults	087 Fault Diagnosis for Gearbox	of Wind Turbine Based on Transfer Learning and
iayu Liu	Harbin Institute of Technology	Ke Chen	China University of Petroleu
huyu Zhang	Harbin Institute of Technology	Ming Gao	China University of Petrole
an zhen	The third general design department of China aerospace science and industry corporation	Li Sheng	China University of Petrole
1ingzhe Hou	Harbin Institute of Technology	Xiaopeng Xi	Universidad Técnica Federi
SaA05-5	14:30-14:45	SaA06-5	14:30-14:45
567 A Novel Dynamic Periodic	Event-Triggered Prescribed Performance Control of Uncertain Semi-Strict Feedback Systems With Application	· · · · ·	ith Random Access Protocol and Probabilistic Qua
xindi xu	Harbin Institute of Technology	yang zhou	Donghua University
Mingzhe Hou	Harbin Institute of Technology	Na Li	Qingdao University of Scier
eng Tan	Harbin Institute of Technology	Wen Chen	Harbin University of Science
5- A05- C		Lei Zou	Brunel University London
SaA05-6	14:45-15:00	SaA06-6	14:45-15:00
	r Dynamic Systems Localization with Skewed Heavy-tailed Noise	0562 Free Final-Time Trajectory	Optimization for Ramjet Mode of ATR Aircraft by S
Zihao Zhang	China University of Mining and Technology	邓泽晓	哈尔滨工业大学(深圳)
Guoqing Wang	China University of Mining and Technology	王雁	哈尔滨工业大学(深圳)
Chunyu Yang Lei Ma	China University of Mining and Technology China University of Mining and Technology	刘鲁华	中山大学
	china oniversity of Mining and rechnology	SaA06-7	15:00-15:15
SaA05-7	15:00-15:15		tributed Affine Nonlinear Systems and Observer I
0346 Data-Driven Controllabilit	y and Observability of Probabilistic Logical Control Networks	Yuyan Li	Shandong University
Lin Lin	The University of Hong Kong	Jinjin Zhang	Shandong University
James Lam	The University of Hong Kong	Shuai Liu	Shandong University
SaA05-8	15:15-15:30	I SaA06-8	15:15-15:30
353 Non-Overshooting Positio	n Tracking Control for Permanent Magnet Synchronous Motor Servo Systems via High-Order Fully-Actuated Modeling	0501 Trajectory Tracking of Rob	otic Manipulator Based on High-Order Fully Actua
	China University of Mining and Technology	Jinjin Zhang	Shandong University
Chunyu Yang	china oniversity of Phining and rechnology		
Ihunyu Yang Mingjun Ji	China University of Mining and Technology	Yuyan Li	Shandong University



议室

13:30-15:30

complex dynamical systems subject to communicamic Systems Based on Fully Actuated System Theory

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y Successive Difference-of-Convex Programming

r Design Based on FMCF

uated System Approach



SaA07	三楼第八会议室	13:30-15:30	SaA08	三楼第一教室
Invited Session: Fully a estimation in engineer	ctuated system theory and its application in robot control ing field	; Intelligent control and	Invited Session: Renew	able Energy Power System Control -
Chair: Ling Huang	Harbin University of Science and Technology		Chair: Yi Yu Co-Chair: Hao Quan	The Hong Kong Polytechnic Univ Nanjing University of Science an
Co-Chair: jun wang	Nanjing University of Science and Technology		SaA08-1	13:30-13:45
SaA07-1	13:30-13:45			ng and Networked Tolerant Control for Cyber-Physical S
	or UVMS via Fully Actuated System Theory and Liquid Neural Networks		ShiYu Chen	Southern University of Science a
Jiawei Wu	Harbin Engineering University		Guoping Liu	Southern University of Science a
, Bing Li	Harbin Engineering University		Yi Yu	The Hong Kong Polytechnic Uni
Ling Huang	Harbin University of Science and Technology		SaA08-2	13:45-14:00
Jiashuai Li	Northeast Forestry University		0666 Analysis of Short Circuit Ratio	o Stability Domain of Direct-Drive Wind Farm with Hybr
Mingze Li	Harbin Engineering University		Linpei Hu	Nanjing University of Science ar
			Puyu Wang	Nanjing University of Science ar
SaA07-2	13:45-14:00		Xin Wang	Nanjing University of Science ar
	tion control complex semiconductor laser network with bit-rate constraint		Shijie Fu	Nanjing University of Science ar Nanjing University of Science ar
ing Guo	Harbin University of Science and Technology		Ruitong Zhang	
ig Huang	Harbin University of Science and Technology		I SaA08-3	14:00-14:15
SaA07-3	14:00-14:15		V667 Small-signal Modelling of Hy Yu Sheng	brid Bipolar HVDC Transmission Systems Nanjing University of Science ar
370 An Unscented Kalman Filter /	Algorithm for Rebar Signal Processing Based on an Adaptive Forgetting Factor		Puyu Wang	Nanjing University of Science and
lianwei Fan	Harbin University of Science and Technology		Yanyu Zhu	Nanjing University of Science a
Ling Huang	Harbin University of Science and Technology		Dengpan Sun	Nanjing University of Science ar
Baoluo Li	Harbin University of Science and Technology		Bin Wu	Nanjing University of Science ar
	14.15 14.20		SaA08-4	14:15-14:30
SaA07-4	14:15-14:30			Analysis of Photovoltaic Inverter Based on DC Voltage
0449 A Network Communication Ti Yi Zhou	me Delay Compensation Strategy Based on High Order Predictive Control		Xujie Tang	Nanjing University of Science ar
jiali ding	Wuhan Institute of Technology Wuhan Institute of Technology		Puyu Wang	Nanjing University of Science ar
Xuhuan Xie	Wuhan Institute of Technology		Dengpan Sun Tianwei Li	Nanjing University of Science an
Hao Liu	Wuhan Institute of Technology		Yu Sheng	Nanjing University of Science ar Nanjing University of Science ar
Zixin Huang	Wuhan Institute of Technology		-	
	wanan institute of rechnology		SaA08-5	14:30-14:45 STmixing-LSTM for Short Term Wind Power Prediction
SaA07-5	14:30-14:45			Nanjing University of Science an
26 An Adaptive Control Method	for Humanoid Robots Based on Fully-actuated Systems		Fuming Peng	Nanjing University of Science ar
	Northwostern Polytechnical University			

Hao Quan

Zixu Wang Hao Quan

Xiang Ma

Tao Zhou

Yong Qiao

Meng Dai

Wenke Gu

SaA08-8

Tao Zhou

Jun Ni Chao Xu

Yan Xu

Yulu Wang

Zhong Chen

Jian Wu

yingxiang Zhao

Fuming Peng SaA08-7

Xiang Ma SaA08-6 SINTEF

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14:45-15:00

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SaA07-5	14:30-14:45						
0626 An Adaptive Control Method for H	0626 An Adaptive Control Method for Humanoid Robots Based on Fully-actuated Systems						
Hao Sun	Northwestern Polytechnical University						
Liang He	Northwestern Polytechnical University						
Ling Huang	Harbin University of Science and Technology						
SaA07-6	14:45-15:00						
0670 Multi-agent Cooperative Pursuit	Algorithm for UGVs Based on MASAC						
Min Fang	Nanjing University of Science and Technology						
Jun Wang	Nanjing University of Science and Technology						
SaA07-7	15:00-15:15						
0671 Disturbance Rejection Control of	Flying Rifle Based on Adaptive Prescribed Performance						
Chichen Zhang	Nanjing University of Science and Technology						
Jun Wang	Nanjing University of Science and Technology						
Fan Cao	Nanjing University of Science and Technology						
Yuming Bo	Nanjing University of Science and Technology						
I SaA07-8	15:15-15:30						
0681 Prescribed Performance-Based R	ecoil Compensation Control for Flying Rifle Systems						
Fan Cao	Nanjing University of Science and Technology						
Jun Wang	Nanjing University of Science and Technology						

15:15-15:30	
ecoil Compensation Control for Flying Rifle Systems	
Nanjing University of Science and Technology	
Nanjing University of Science and Technology	
Nanjing University of Science and Technology	



Chichen Zhang

Fully Actuated System Theory and Applications

13:30-15:30 - A Fully Actuated System Approach niversity and Technology al Systems and Technology and Technology niversity ybrid-Synchronous Control Under Different Input Proportional Coefficients and Technology ge Inertia Control and Technology and Technology and Technology and Technology and Technology and Technology Nanjing University of Science and Technology Nanjing University of Science and Technology 0535 A Comprehensive Analysis of Electric Vehicle Charging Patterns Using Hybrid BIRCH-K-MEANS Clustering Algorithm Nanjing University of Science and Technology Nanjing University of Science and Technology Nanjing University of Science and Technology 0612 Power System Region Partition Method with High-Penetration of Renewable Energy Considering Frequency Temporal-spatial Distribution Characteristics Nanjing University of Science and Technology Nanjing University of Technology Nanjing University of Science and Technology Nanjing University of Science and Technology 0615 Synthetic Inertial Control for Fast Frequency Response of Photovoltaic Power Generation Based on Load Shedding Nanjing University of Science and Technology Nanjing University of Science and Technology State Grid Wuxi Power Supply Company State Grid Wuxi Power Supply Company

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	三楼第二教室 ative Control Technologies for Large-Scale Renewable ologies for High Penetration Renewable Energy Powe		SaA10 Invited Session: Resi Analysis and Control	三楼第3 lient Control of Networked
Chair: Minghui Yin Co-Chair: Zaiyu Chen	Nanjing university of Science and Technology Nanjing University of Science and Technology		Chair: Qian Ma Co-Chair: Liwei An	Nanjing University of S Northeastern Univers
SaA09-1 ⁰⁴⁷⁶ Dual-Mode UAV Collaboration Chanjuan He Guanqi Wang Chenxiao Cai	13:30-13:45 in Unknown Environments: A Frontier-Integrated MASAC Approach with Dynam Nanjing University of Science and Technology Nanjing University of Science and Technology Nanjing University of Science and Technology	ic Role Specialization	l SaA10-1 ^{0278 Neural Adaptive Control fo Qiang Zhang Xingling Shao Jin Chen}	13:30-13:45 or Nonlinear Cyber-Physical Systems Unde Northeastern Universi North University of Ch School of Electrical an
l SaA09-2 ^{0551 A Fast Power Sharing Method f} Zemiao Ge Ze Sun Zaiyu Chen	13:45-14:00 for Wind Farms Participating in Primary Frequency Regulation Nanjing University of Science and Technology Nanjing University of Science and Technology Nanjing University of Science and Technology		l SaA10-2 ^{0477 Research on Path Planning} Qingchao Tian Qian Ma Peng Jin	13:45-14:00 g for Mobile Robots Based on Optimized A Nanjing University of Nanjing University of Wuhan Textile Univer
I SaA09-3	14:00-14:15 ver Control Strategy for Hybrid Energy Storage Based on MPC Nanjing University of Science and Technology Nanjing University of Science and Technology Nanjing University of Science and Technology		l SaA10-3 ⁰⁴⁷⁸ D_ORB: A robust visual SL/ Zijie Xie Qian Ma Peng Jin	14:00-14:15 AM system based on deep feature extract Nanjing University of Nanjing University of Wuhan Textile Univer
l SaA09-4 ^{0592 Frequency Support Method for} Jie Wang Tianyi Xu Zaiyu Chen l SaA09-5	14:15-14:30 Offshore Wind Power VSC-HVDC System Based on Dual-Terminal Symmetric Coo Nanjing University of Science and Technology Nanjing University of Science and Technology Nanjing University of Science and Technology 14:30-14:45	ordinated Inertial Synchronization Control	I SaA10-4 OSO9 Homology Analysis for Pos Xiaolei li Xuzheng Chen Wan Li che Yukun Shi Youqing Wang	14:15-14:30 sitioning Offsets Caused by Malicious Atta Beijing University of C Beijing University of C Beijing University of C Beijing University of C Beijing University of C
0799 Observer-based Prescribed Fin Zheng Li Chenxiao Cai I SaA09-6	nite-time Control for Singularly Perturbed Systems Nanjing University of Science and Technology Nanjing University of Science and Technology 14:45-15:00		I SaA10-5	14:30-14:45 rmance Control of Nonlinear Strict-Feedb Northeastern Universi Northeastern Universi
Ze Sun Jie Wang Zaiyu Chen I SaA09-7	Wind Turbines Based on Frequency Response Analysis Nanjing University of Science and Technology Nanjing University of Science and Technology Nanjing University of Science and Technology 15:00-15:15 patch Strategy of Wind Farm Considering Maximum Reactive Power Support Cap Nanjing University of Science and Technology Nanjing University of Science and Technology Nanjing University of Science and Technology Nanjing University of Science and Technology	ability	l SaA10-6 ^{0599 Extended State Observer E} Weiwei Wei Xiaolong Ma Yue Zhao CHEN Meng Ouyang Zhang Zhuang Liu Jianxing Liu	14:45-15:00 Harbin Institute of Teo Aerospace System En Harbin institute of teo Institute of Aerospace Harbin Institute of Teo Harbin Institute of Teo Harbin Institute of Teo Harbin Institute of Teo
SaA09-8	15:15-15:30 and Parameter Optimization of Grid-Forming Wind Turbine Nanjing University of Science and Technology Nanjing University of Science and Technology Nanjing University of Science and Technology		Runze Chen Qian Ma I SaA10-8	15:00-15:15 oserver based Adaptive Fuzzy Control for C Nanjing University of S Nanjing University of S 15:15-15:30 trol for Fixed-Wing UAVs Based on Fully A Nanjing University of S Nanjing University of S

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13:30-15:30

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SaA11	四楼茉莉厅+蔷薇厅 13:30-15:30	SaA11-8 0553 Two-stage Multi-UAV path pla	15:15-15:30
	lligent navigation and decision-making algorithms and applications	Yudie Wang Qingzhong Yan	Nanjing University of Scie Nanjing University of Scie
Chair: Xiang Wu Co-Chair: ChangHui J	Nanjing University of Science and Technology Jiang Nanjing University of Aeronautics and Astronautics	Zhi Hang Ren Gaopeng Zhao Xiang Wu	Shanghai Institute of Ae Nanjing University of Sci Nanjing University of Sci
SaA11-1	13:30-13:45	-	
314 USV Swarm Defense Optir Kingchen Zhuo Zhixian Tang	mization for Island Protection Based on Enhanced IDQ Nanjing University of Science and Technology The 28th research institute of china electronics technology group corporation	SaA12	四楼荷花
YongHao Cheng Qilong Huang	Nanjing University of Science and Technology Nanjing University of Science and Technology	Invited Session: Autono	mous sensing and collabora
SaA11-2	13:45-14:00	Chair: Lei Ma	China University of Minin
	of Unmanned Surface Vessels Based on Physics-Informed Neural Network	Co-Chair: Chenxiao Cai	Nanjing University of Sci
YongHao Cheng	Nanjing University of Science and Technology	SaA12-1	13:30-13:45
Jian Yu Fan Huili	China Ship Development and Design Center China Ship Development and Design Center		Mode Functional Filtering for a class of No
Feiyang He	China Ship Development and Design Center	Xiaotian Shi	Nanjing University of Scie
Qihang Li	Nanjing University of Science and Technology	Chenxiao Cai	Nanjing university of scie
Qilong Huang	Nanjing University of Science and Technology	I SaA12-2	13:45-14:00
SaA11-3	14:00-14:15		d-Based Security Control for Two-Time-Sca
	Dynamic Optimization and Multi-Scale Attention for Real-Time Traffic Object Detection	Ying Zhang	China University of Minin
Hengwei Xu Yuan Li	Nanjing University of Science and Technology Nanjing University of Science and Technology	Lei Ma	China University of Minin
Zhaolei Li	Nanjing University of Science and Technology	SaA12-3	14:00-14:15
Rui Zhang	Nanjing University of Science and Technology		e Linear Positive Multi-agent Systems
Xiang Wu	Nanjing University of Science and Technology	Bohao Zhu	The University of Hong K
SaA11-4	14:15-14:30	James Lam	The University of Hong K
0317 Coordination Optimization	n of Air-sea Confrontation Force Based on Enhanced MDPLO	Chengyan Zhao	Ritsumeikan University
Qihang Li	Nanjing University of Science and Technology	Ka-Wai Kwok	The Chinese University of
Fan Huili	China Ship Development and Design Center	L C - 412 4	14.15 14.20
lian Yu Chen Junyu	China Ship Development and Design Center China Ship Development and Design Center	I SaA12-4	14:15-14:30
Xingchen Zhuo	Nanjing University of Science and Technology	Guangi Wang	ering for Singularly Perturbed Jumping Syst Nanjing University of Scie
Qilong Huang	Nanjing University of Science and Technology	Chenxiao Cai	Nanjing University of Scie
Li Yang	Nanjing University of Science and Technology	Chenxiao Car	
SaA11-5	14:30-14:45	SaA12-5	14:30-14:45
	istic Trajectory Prediction Model Integrating Channel Attention and Cross-Attention Mechanisms		ntrol for Multi-agent Systems with Cyber-a
un Zhong	Nanjing University of Science and Technology	Yifang Zhang	Zhejiang University
Yuhang Zhou	Nanjing University of Science and Technology	James Lam	The University of Hong K
Yukuang Shen	School of Automation, Nanjing University of Science and Technology	Ka-Wai Kwok	The Chinese University of
iamei Yuan Kiang Wu	Nanjing University of Science and Technology Nanjing University of Science and Technology	SaA12-6	14:45-15:00
-		0204 Intelligent Fault Detection and	Diagnosis of Circuit Systems Based on A M
SaA11-6	14:45-15:00	Min Xue	The university of Hong K
	ion Strategies for GEO Satellites Using PD-DDPG Nanjing University of Science and Technology	James Lam	The University of Hong K
Gang Shen Zhi Hang Ren	Shanghai Institute of Aerospace Systems Engineering	Ka-Wai Kwok	The Chinese University o
Jun Zhong	Nanjing University of Science and Technology	SaA12-7	15:00-15:15
Gaopeng Zhao	Nanjing University of Science and Technology		ne Formation Control for Communication-C
Xiang Wu	Nanjing University of Science and Technology	Chenjun Liu	University of Macau
SaA11-7	15:00-15:15	Jason Jinrong Liu	University of Macau
	vith Multi-Scale Feature Extraction and Explicit Periodic Modeling	James Lam	The University of Hong K
liamei Yuan	Nanjing University of Science and Technology	-	
Gang Shen	Nanjing University of Science and Technology	I SaA12-8	15:15-15:30
Zhipeng Cheng	Nanjing University of Science and Technology		Control for Precise Trajectory Tracking of Q
Jun Zhong	Nanjing University of Science and Technology	Aqeel- Ur-Rehman	Nanjing University of Sci
Xiang Wu	Nanjing University of Science and Technology	Chenxiao Cai	Nanjing University of Scie



The 4th Conference on Fully Actuated System Theory and Applications

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Saturday, July 05, 2025 下午第二场

SaA13	四楼友谊厅 13:30-1	:30 SaB01	四楼牡丹厅
	\集群与智能系统的自主控制与辨识; Operation and Control Technologies for High Energy Power Systems	ene- FASTA Best Stude	ent Paper Award
Chair: 李芃	哈尔滨工业大学(深圳)		
Co-Chair: 陆文杰	哈尔滨工业大学(深圳)	I SaB01-1	16:00-16:20
SaA13-1	13:30-13:45	0232 Adaptive Prescribed	Performance Control for Variable-Sweep Aircraft Based
	inear and Adaptive Distributed Observer Based on Redundant Information Flow	Baisen Wang	National University of Defer
ngjian Mo iaobo Zhang	Harbin Institute of Technology (Shenzhen) Harbin Institute of Technology (Shenzhen)	Peng wang	National University of Defer
'angkun Zhang Venjie Lu	Harbin Institute of Technology (Shenzhen) Harbin Institute of Technology (Shenzhen)	SaB01-2	16:20-16:40
eng Li	Harbin Institute of Technology (Shenzhen)	0798 Optimal Control of I	Nonlinear Singular Systems based on Fully Actuated Syste
	Harbin institute of rechnology (Shenzhen)	Yufa Sun	Harbin Engineering Univers
SaA13-2	13:45-14:00	Zhiguang Feng	Harbin Engineering Universi
	n of Different Dynamics Using Deep Koopman Operator		
Rong Chen	Harbin Institute of Technology (Shenzhen)	l SaB01-3	16:40 17:00
Duofeng Pan	Harbin Institute of Technology (Shenzhen)		16:40-17:00
Peng Li Wenjie Lu	Harbin Institute of Technology (Shenzhen) Harbin Institute of Technology (Shenzhen)	0215 Prescribed Performa Yu Lin Duan	ance Tracking Control for Uncertain Strict-Feedback Syster Southern University of Scien
verijie Lu	Harbin institute of rechnology (Shenzhen)	Jiaming Zhang	Beihang University
SaA13-3	14:00-14:15	junxiang zhang	Southern University of Scien
170 Reinforcement Learning	with Guaranteed Robustness under Dynamics Modeling Uncertainties	Guang-Ren Duan	-
Duofeng Pan	Harbin Institute of Technology (Shenzhen)	Guang-Ken Duan	
Rong Chen	Harbin Institute of Technology (Shenzhen)	_	
Peng Li	Harbin Institute of Technology (Shenzhen)	SaB01-4	17:00-17:20
Venjie Lu	Harbin Institute of Technology (Shenzhen)		ut regulation of high-order fully actuated systems with in
SaA13-4	14:15-14:30	Shunli Li	Harbin Institute of Technolo
145 A Lightweight Transform	ner for PCB Defects Detection	Guangren Duan	Harbin Institute of Technolo
uanchen Niu	Harbin Institute of Technology	Bin Zhou	Harbin Institute of Technolo
Rui Wang	Harbin Institute of Technology		
Peng Li	Harbin Institute of Technology (Shenzhen)	SaB01-5	17:20-17:40
′angkun Zhang	Harbin Institute of Technology (Shenzhen)	0333 Adaptive Control of	Nonlinear Systems with Parameter Uncertainty Based on
SaA13-5	14:30-14:45	Liji Wang	Nanjing University of Scienc
451 Quality Prediction in Mu	Iti-Stage Manufacturing with Hybrid TCN-Transformer	Zhicheng Wei	Nanjing University of Scienc
Peng Siwei	Harbin Institute of Technology	Huifang Min	Nanjing University of Scienc
Rui Wang	Harbin Institute of Technology	5	
eng Li	Harbin Institute of Technology (Shenzhen)		17.40 10.00
angkun Zhang	Harbin Institute of Technology (Shenzhen)	I SuB01-6	17:40-18:00
SaA13-6	14:45-15:00		Tracking Control with Prespecified-Time Sliding Mode for China University of Geoscier
	rning Control for Robotic Manipulators with Disturbances: A High-order Fully Actuated Approach	Yan Jia Yi-Fan Li	China University of Geoscier
′anjing Chen	Sun Yat-Sen University	Qian Chen	China University of Geoscier
Qiqi Xing	Sun Yat-Sen University	Teng-Fei Ding	China University of Geoscier
Junkai Wang	Sun Yat-Sen University	Ming-Feng Ge	China University of Geoscier
Kuefang Li	Sun Yat-sen University		china oniversity of deoscier
SaA13-7	15:00-15:15		
0595 Damping control of offs in Ju	hore wind power grid-forming flexible HVDC grid-connected system considering the influence of measurement delay Nanjing University of Science and Technology		
Boyang Sun	Nanjing University of Science and Technology		
Kunlong Liu	Nanjing University of Science and Technology		
saA13-8	15:15-15:30		
	trol of Deloaded Wind Turbines Considering the Pitch Angle Dynamic Process		
(inchen Zhang	Nanjing University of Science and Technology		
Wei Gu	Nanjing University of Science and Technology		



The 4th Conference on Fully Actuated System Theory and Applications



16:00-18:00

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SaB02 Invited Session: Fully A (Harbin Institute of Tech	Actuated System Theory and Applications Research Fund for Youn	D-18:00 g Scholars	SaB03 Invited Session: Recen	三楼第四会议题 It Developments in Fully Actuated
Chair: Yan Wang Co-Chair: Zibo MIAO	Harbin Institute of Technology (Shenzhen) Harbin Institute of Technology (Shenzhen)		Chair: Weizhen Liu Co-Chair: Menghua ZH/	Harbin Institute of Technolog ANG Shandong University
SaB02-1	16:00-16:15		I SaB03-1	16:00-16:15
^{0410 Vision-Based Cooperative Tra Renhe Guan Yan Wang}	nsport for Two Mobile Robots in Communication-free Mapless Environments with Guaranteed Payload S Harbin Institute of Technology (Shenzhen) Harbin Institute of Technology (Shenzhen)	afety	07 Inverse Reinforcement Learnin Jinna Li Mingwei Yang	ng for Optimal Control of Discrete-Time Fully Actuat Liaoning Petrochemical Unive Liaoning Petrochemical Unive
SaB02-2	16:15-16:30		SaB03-2	16:15-16:30
0480 Distributed Optimal Control of Ziming Ding Yan Wang	f Large-scale Higher-order Fully Actuated Systems Harbin Institute of Technology (Shenzhen) Harbin Institute of Technology (Shenzhen)		0639 First-Order Nonaffine SFSs: . Guangren Duan Weizhen Liu	
SaB02-3	16:30-16:45		SaB03-3	16:30-16:45
Jia xiang Li Huilong Xu	um Systems Based on Fully Actuated System Approach Harbin Institute of Techonlogy School of Robotics and Advanced Manufacturing		09 Inverse Optimal Control for hig Xin Zhou Jinna Li	gh-order Nonlinear Systems in a Fully Actuated Syst Liaoning Petrochemical Unive Liaoning Petrochemical Unive
Zibo MIAO	Harbin Institute of Technology (Shenzhen)		SaB03-4	16:45-17:00
l SaB02-4 ^{0224 Prescribed-Time Control for a} Yingqi Zhu Zhiyuan Dong	16:45-17:00 ^{Class of Fully Actuated Rigid-Body Systems} Harbin Institute of Technology (Shenzhen) Harbin Institute of Technology (Shenzhen)			ach to Adaptive Control for Underactuated Tower C Shandong University University of Macau Harbin Institute of Technolog
SaB02-5	17:00-17:15		SaB03-5	17:00-17:15
0548 Predictor feedback control of	linear time-invariant systems with distinct input delays			trol of Uncertain Hydraulic Manipulator via High-Or
Shi-Long Shen Yu Wang	Harbin Institute of Technology (Shenzhen) Harbin Institute of Technology (Shenzhen)		Zhengsheng Chen Mengyang Zhou Weihao Dou	China University of Mining an China University of Mining an China University of Mining an
SaB02-6	17:15-17:30		Honglei Che	China Academy of Safety Scie
064 Flexible Formation and Obstac Zhihao Liu Peng Li Yangkun Zhang	le Avoidance for multi-UAV system via Nutcracker Optimization and Trajectory Control Harbin Institute of Technology (Shenzhen) Harbin Institute of Technology (Shenzhen) Harbin Institute of Technology (Shenzhen)		Jiayin Liu Yang Tian	China Academy of Safety Scie China University of Mining an Liyang 28th Institute System I
			I SaB03-6	17:15-17:30
ASRA SARWAT Wenjie Lu Jiaole Wang	17:30-17:45 ctuated Robotic Hand Using High-Order Sliding-Mode Controller for Prosthetic Applications Harbin Institute of Technology (Shenzhen) Harbin Institute of Technology (Shenzhen) Harbin Institute of Technology (Shenzhen) Harbin Institute of Technology (Shenzhen)		⁰²⁷⁰ Improved Observer-based F Jianpeng Zou Weijie Ren Guangren Duan	Sully Actuated System Approach to 3-DOF Quadroto Southern University of Science Southern University of Science Harbin Institute of Technolog
Peng Li	Harbin institute of rechnology (Shenzhen)		SaB03-7	17:30-17:45
l SaB02-8 0803 Prescribed-time Trajectory Tra Hanbin Qiu Jiahao Zhang Ying Zhang	17:45-18:00 acking Controller for Flexible-joint Manipulators: A High-order Fully Actuated System Approach Harbin Institute of Technology (Shenzhen) Harbin Institute of Technology (Shenzhen) Harbin Institute of Technology (Shenzhen)		0284 A FAS Approach for Robust T Junxiang Zhang Weijie Ren Yulin Duan Guangren Duan	Trajectory Tracking Control of a 3-DOF Quadrotor Southern University of Scienc Southern University of Scienc Southern University of Scienc Harbin Institute of Technolog
			I SaB03-8	17:45-18:00
			0300 Adaptive Neural Control for Jinpeng Fan Guangren Duan Weijie Ren	Flexible Joint Manipulators with Uncertainties: A Fu Southern University of Scienc Harbin Institute of Technolog Southern University of Scienc

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16:00-18:00

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	三楼第五会议室 16:00-18:00 ation and Control of Complex Systems with Periodic or Switched Time-Varying and Operation of Smart Grid	SaB05 Invited Session: Adv Systems; 复杂动态系	三楼第六 vanced Fault Diagnosis and Fo 统鲁棒控制
Chair: Xiaochen Xie Co-Chair: Chenchen Fa	Harbin Institute of Technology (Shenzhen) n The Hong Kong Polytechnic University	Chair: Wenlong Li Co-Chair: 宋晓娜	Nanjing University of S 河南科技大学
SaB04-1	16:00-16:15	I SaB05-1	16:00-16:15
94 Reachable Set Estimation and	Control Problems for Switched Singular Systems with Time Delays		M Servo Drive using STSM Speed Control and
inyue Zhang	Dalian University of Technology	Hang Li Wenlong Li	Nanjing University of S Nanjing University of S
SaB04-2	16:15-16:30	SaB05-2	16:15-16:30
	Estimating Reachable Set for Periodic Time-varying Systems		Resistance and Permanent Magnet Temper
Zhaoji Ling	Harbin Institute of Technology (Shenzhen)	Chengtao Shi	Sun Yat-sen University
Xiaochen Xie	Harbin Institute of Technology (Shenzhen)	Yuting Lu	Sun Yat-sen University
James Lam	The University of Hong Kong	Beichen Ding	Sun Yat-sen University
Ka-Wai Kwok	The Chinese University of Hong Kong	Guodong Feng	Sun Yat-sen University
SaB04-3	16:30-16:45	I SaB05-3	16:30-16:45
	t Periodically Switched Systems with Dwell Time Uncertainty		g and Negative-Sequence Component-Based
Chenchen Fan	The Hong Kong Polytechnic University	Haoran Liu	Nanjing University of S
Xiaochen Xie	Harbin Institute of Technology (Shenzhen)	Wenlong Li	Nanjing University of S
SaB04-4	16:45-17:00	Jingheng Zhu	Nanjing University of S
	orage for Optimal Triggering Control Design in Logical Dynamic Systems	I SaB05-4	16:45-17:00
in Lin	The University of Hong Kong	0516 Adaptive-Voltage-Vector	r-Selection Based Model Predictive Current C
Lhiyi Zhong	The University of Hong Kong	Jingheng Zhu	Nanjing University of S
ames Lam	The University of Hong Kong	Wenlong Li	Nanjing University of S
SaB04-5	17:00-17:15	Weiwei Geng	Nanjing University of S
362 Event-triggered control of pe	riodic piecewise system subject to DoS attack	SaB05-5	17:00-17:15
Daiyan Wu	Guangdong University of Technology	-	osis Method Based on Probe Coil for Inter-Tu
Panshuo Li	Guangdong University of Technology	Baowang Huang	Beijing Jiaotong Univer
Liheng Wan	Guangdong University of Technology	Haoyue Tang	China University of Mir
		Shifan Luo	Beijing Jiaotong Unive
SaB04-6	17:15-17:30	Weili Li	Beijing Jiaotong Unive
0409 Polynomial Interpolation-bas	ed Smooth Switching Control of Positive Switched Systems	Haibin Wang	Jing-Jin Electric Techno
Xiaoqi Song	The University of Hong Kong	Wenmao Liu	Tsinghua University
James Lam	The University of Hong Kong	SaB05-6	17:15-17:30
SaB04-7	17:30-17:45	0833 An intelligent multi-fault	diagnosis method for Asynchronous Motors
	er Parametric Design for Quadrotor with Suspended Payload via Fully Actuated System Approach	Yutao Jiang	Nanjing University of S
Bing Yan	Nanjing University of Science and Technology	Wenlong Li	Nanjing University of S
Yun Zou	Nanjing University of Science and Technology	Qingling Zhao Qingyue Wu	Nanjing University of S Nanjing University of S
SaB04-8	17:45-18:00		
	cy Adjustment in Distribution Network Repair under Sudden Risks	I SaB05-7	17:30-17:45
Xinming Wang	Nanjing University of Science and Technology	•	ntrol for Output Synchronization of Reaction
Sheng Cai	Nanjing University of Science and Technology	Kaiwen Wang	Henan University of So
Yunyun Xie	Nanjing University of Science and Technology	Xiaona Song Danjing Zheng	Henan University of So Henan University of So
Chen Yu		Danjing Zheng Xubo Wang	Henan University of So
Kang Chang	NARI Group Corporation (State Grid Electric Power Research Institute) NARI Group Corporation (SGRPRI)		
		I SaB05-8	17:45-18:00
			f Generalized Inertial Neural Networks Base
		Xubo Wang	Henan University of So
		Xiaona Song	Henan University of So
		Danjing Zheng	Henan University of So
		Kaiwen Wang	Henan University of So

议室

16:00-18:00

Tolerant Control Technology for Electric Machine

nce and Technology

tive MTPA Current Control nce and Technology nce and Technology

of Permanent Magnet Synchronous Motor Based on Current Angle Injection

t-Tolerant MPC for DTP- PMSMS nce and Technology nce and Technology nce and Technology

ol for eVTOL Propulsion nce and Technology nce and Technology nce and Technology

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ed on Depth-Wise Convolutions Enhanced Transformer nce and Technology nce and Technology nce and Technology nce and Technology

usion Neural Networks ce and Technology ce and Technology ce and Technology ce and Technology

Adaptive Event-Triggered Control ce and Technology ce and Technology ce and Technology Henan University of Science and Technology



SaB06 nvited Session: Distrib of Smart Grid	三楼第七会议室 uted Estimation and Safety Control of Networked Syst	16:00-18:00 ems; Control and Operation		三楼第八会议 ult Diagnosis and Fault-Tolerant trol, and servo control
Chair: Lifeng Ma Co-Chair: Yunyun Xie	Nanjing University of Science and Technology Nanjing University of Science and Technology		Chair: Miao Cai Co-Chair: SUN LE	Southeast University Nanjing University of Scienc
SaB06-1	16:00-16:15		I SaB07-1	16:00-16:15
74 Encoding-Based Fault-Tolera Wang	ant Tracking for Distributed Multi-Agent Systems University of Shanghai for Science and Technolog	3.	Mengtong Gong	sed Fault-Tolerant Stabilisation for High-Order Sub-Fu Tsinghua University
SaB06-2	16:15-16:30		Li Sheng Donghua Zhou	China University of Petroleu Tsinghua University
178 State Estimation of Complex- Bing Li	Valued Neural Networks with Leakage Delay: A Dynamic Event-triggered Appro Chongqing Jiaotong University	ach	I SaB07-2	16:15-16:30
SaB06-3	16:30-16:45			Illy Actuated Energy Systems in Gas-to-methanol Prod
)ewei Wang	g Control Under Homomorphic Encryption Mechanism University of Shanghai for Science and Technolog		Xueteng Wang Mengyao Wei Jiandong Wang	Shandong University of Scie Shandong University of Scie Shandong University of Scie
Shuai Liu Yong Zhang	University of Shanghai for Science and Technolog Wuhan University of Science and Technology	уу	I SaB07-3	16:30-16:45
SaB06-4	16:45-17:00			or Stochastic Fully Actuated Systems With Local Fault
	ion Framework Integrating Swin Transformer and ResNet for Multi-Speed Gearb	ox Fault Diagnosis	Xueqing Liu	Tsinghua University
Hanyang Dou	Nanjing University of Science and Technology		Li Sheng Donghua Zhou	China University of Petroleu Tsinghua University
Lifeng Ma	Nanjing University of Science and Technology			
Chen Gao	Nanjing University of Science and Technology		SaB07-4	16:45-17:00
Yong Zhang	Wuhan University of Science and Technology		0383 A New Ultrasonic Phase XuDong Yang	d Array Scanning Method for Internal Inspection of Ga China University of Petroleu
SaB06-5	17:00-17:15		MingYan LIAO	China University of Petroleu
	ce Control for Modular Multilevel Converter-Based Battery Energy Storage System	n	Ming Gao	China University of Petroleu
Zhichao Zhao	Shanghai University of Electric Power		Zhongyu Chen	China University of Petroleu
icheng Wang	Shanghai University of Electric Power		Li Sheng	China University of Petroleu
Zahoor Ahmed	Shanghai University of Electric Power		I SaB07-5	17:00-17:15
rong Zhang	Wuhan University of Science and Technology			f Flexible Manipulator Driven by PMLM Based on SO-L
SaB06-6	17:15-17:30		Sheng Tong	Nanjing University of Scienc
439 State Estimation With Locatio	-		Jianhu Yan	Nanjing University of Scienc
Shijie Yin	Nanjing University of Science and Technology		Zhiyong Duan	Nanjing University of Scienc
Yulong Wang	Kunming University of Science and Technology		Yuanjun Song	Nanjing University of Scienc
Chenxiao Cai Jong Lin	Nanjing University of Science and Technology		SaB07-6	17:15-17:30
Hong Lin	Zhejiang University			Design and Fault-Tolerant Control of a Five-Phase Pe
SaB06-7	17:30-17:45		Jing Xu	Nanjing University of Scienc
	e Assessment of Power Grid under High Renewable Penetration		Xuefeng Jiang	Nanjing University of Scienc
Zhaiqi Zhu	Nanjing University of Science and Technology		Wangyang Zhou	Nanjing University of Scienc
Yunyun Xie	Nanjing University of Science and Technology		Huixin Luo	Nanjing University of Scienc
Sheng Cai	Nanjing University of Science and Technology		Zhao Zhao	CHONGQING TIEMA INDUST
Yuping Zhang	Nanjing University of Science and Technology	Devuer Celence Dessarsh institutio	SaB07-7	17:30-17:45
Dandan Zhu Qian Zhou	State Grid Jiangsu Electric Power Co.,Ltd. Electric			f PMSM Based on Second-Order Generalized Integrat
Qian Zhou	State Grid Jiangsu Electric Power Co.,Ltd. Electric	rower Science Research Institute	Yuanjun Song	Nanjing University of Scienc
SaB06-8	17:45-18:00		Jianhu Yan	Nanjing University of Scienc
	y for Multi-energy Microgrid Considering Pulsed Load Characteristics		Zhiyong Duan	Nanjing University of Scienc
Jiahao Zhang	Nanjing University of Science and Technology		Long Zhang	Nanjing University of Scienc
Sheng Cai	Nanjing University of Science and Technology		I SaB07-8	17:45-18:00
Xudong Wang	Academy of Military Sciences			ev Permanent Magnet Linear Motor Based on Adaptiv
Xing Su	Academy of Military Sciences		Long Zhang	Nanjing University of Scienc
'unyun Xie	Nanjing University of Science and Technology		Jianhu Yan Yixing Wang	Nanjing University of Science Nanjing University of Science



议室

16:00-18:00

nt Control of Fully Actuated Systems; Motor drive

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Processes cience and Technology cience and Technology

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aptive Fast Terminal Sliding Mode ence and Technology ence and Technology Nanjing University of Science and Technology



16:00-18:00

SaB08 nvited Session: Complex	三楼第一教室 Fully Actuated Systems Analysis and Control(1)	16:00-18:00	SaB09 Invited Sess	三楼第二教 sion: Complex Fully Actuated Systems Ana
hair: Zhengrong Xiang co-Chair: Feng Shu	Nanjing University of Science and Technology Southwest Minzu University		Chair: Zhao Co-Chair: S	oxia Duan Hohai University Shengquan Li Yangzhou University
SaB08-1	16:00-16:15		I SaB09-1	16:00-16:15
	ped-Time Adaptive Vehicle Tracking Control		0138 Sliding-Mod	de-Based Active Disturbance Rejection Control for Self-Balanci
leng	Henan University of Science and Technology		Jianchao Zh	nao Qufu Normal University
n Li	Henan University of Science and Technology		Yunlong Liu	u Qufu Normal University
Zhao	Henan University of Science and Technology		Xinyu Liu	Qufu Normal University
han Tao	Longmen Laboratory		ChaoXin Lia	ang Qufu Normal University
n Wang	Henan University of Science and Technology		I SaB09-2	16:15-16:30
B08-2	16:15-16:30			n-Level Turning Movement Flow Prediction Using An Adaptive S
	ontrol for Full-drive Rigid Spacecraft with Unmodeled Dynamics		Shuangshu	
Xu	China Jiliang University		Yancheng (
ng Li	China Jiliang University		Chunhao Li	, , ,
Mao	China Jiliang University		Zhaodong Guangyuan	
B08-3	16:30-16:45		I SaB09-3	16:30-16:45
mpled-data control of a class	of high-order fully actuated systems			ased Robust Control for Flexible Robotic Manipulators with Mod
.i	Southwest Minzu University		Yuzhu Xian	
Shu	Southwest Minzu University		Weiwei Yi	Nanjing University of Scien
8-4	16:45-17:00		Jian Guo	Nanjing University of scien
	etwork Formation Control for Uncertain Multi-USVs with Nonsymmetric Dead Zone		I SaB09-4	16:45-17:00
	Nantong University			Control of Amphibious Unmanned Surface Vehicles: Fully Actua
ai g He	Nantong University		Haoran Tar	
ang	Nantong University		Yuhang Me	
ı Zhou	Nantong University		Zhengrong	
-5	17:00-17:15		I SaB09-5	17:00-17:15
7 Variable Convergence Rate Cont	rol of High-Order Nonlinear Impulsive Systems: A Fully Actuated System Approach		0244 Predefined-	-Time Control for Unmanned Surface Vehicles with Actuator Att
uanen Li	Sun Yat-sen University		Wangchong	g Peng University of Science and
uefang Li	Sun Yat-sen University		Yang Cui	University of Science and
inquan Liu	Curtin University		I SaB09-6	17:15-17:30
08-6	17:15-17:30			ed system approach for an amphibious unmanned surface veh
synchronous quantized H∞ filte	ring of singular nonhomogeneous Markov jump systems		Yuhang Me	
nrui Li	Hohai University		Haoran Tar	
ngang Hua	Hohai University		Dong Wu	Nanjing University of Scie
08-7	17:30-17:45		Zhengrong	
	Chain Rammer Based on Observer and Fully Actuated System Method		l SaB09-7	17:30-17:45
n Dong	Nanjing University of Science and Technology			Object Grasping and Placement in Dynamic Environments via Napping Lipixorsity of Scio
aolin Hou	Nanjing University of Science and Technology		Yujing Li Shihong Yir	Nanjing University of Scie Nanjing University of Scie
nao Wei	Nanjing university od science and technology		Xizhe Chen	·
hengrong Xiang	Nanjing University of Science and Technology		Zhengrong	3 3 3
uhang Meng	Nanjing University of Science and Technology			
SaB08-8	17:45-18:00		SaB09-8	17:45-18:00 tate Observer-based Hierarchical Objective Optimization Mode
4 Fault Diagnosis for Distributed G	rids and Frontier Exploration of Machine Learning Methods		Ziyuan Yan	
ei Xu	Shanghai Maritime University		Shengquan	
ao Tan	Shanghai Maritime University		Shiqi Kan	Yangzhou University
			Kaiwen Cac	-

Juan Li





alysis and Control(2)

ng Transport Vehicle

patiotemporal Feature Fusion Network

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del Uncertainties via Fully Actuated System Approaches nce and Technology nce and Technology nce and technology

uated System Approach nce and technology nce and Technology nce and Technology

tacks Based on Fully Actuated System Approaches Technology Liaoning Technology Liaoning

icle based on fixed-time trajectory tracking controller nce and Technology nce and Technology nce and Technology nce and Technology

Nodel-Based Policy Gradient nce and Technology nce and Technology nce and Technology nce and Technology

Southeast University

l-free Predictive Control for Three-level NPC Inverter



SaB10 Invited Session: 多智信 al Control	三楼第三教室 ^{能体系统协同控制与优化; Artificial Intelligence for Smart Mar}	16:00-18:00 nufacturing and Industri-	SaB11 Invited Session: Application	四楼茉莉厅+蔷薇月 on of Fully Actuated System Theory
Chair: 宋程 Co-Chair: 樊渊	南京理工大学 安徽大学		Chair: Wei Sun Co-Chair: Zhongcai Zhang	Liaocheng University Qufu Normal University
SaB10-1	16:00-16:15		I SaB11-1	16:00-16:15
Fully Actuated System App	roach to Trajectory Tracking Control of Robot Manipulator with Disturbance		096 Hysteresis Inverse Compensation-	Based Synchronous Control for Pneumatic Artificial
anhuan Zhao	Anhui University		Shuzhen Diao	Nankai University
hao Guo	Anhui University		Gendi Liu	Nankai University
n Fan	Anhui University		Xinlin Zhang Tong Yang	Nankai University Nankai University
SaB10-2	16:15-16:30		Qingxiang Wu	Nankai University
00010-2 7 带未知有界测量误差的多智能			Ning Sun	Nankai University
雨菲	南京理工大学		-	,
雨瑶	南京理工大学		I SaB11-2	16:15-16:30
程	南京理工大学		0132 Event-trigger adaptive dynamic Tianjiao An	programming-based coordinate control of modular Changchun University of Techno
12	RAEL/		HaoXuan Jing	Changchun University of Technol
GaB10-3	16:30-16:45		Bing Ma	Changchun University of Techno
08 带未知有界扰动和速度约束的]二阶多智能体环形编队控制		Hongbo Dong	Changchun University of Techno
国雨瑶	南京理工大学		Bo Dong	Changchun University of Techno
雨菲	南京理工大学		Zhenguo Zhang	Changchun University of Techno
程	南京理工大学		SaB11-3	16:30-16:45
- D10 4	16.45 17.00			gh-Order Fully Actuated Nonlinear Systems With D
SaB10-4	16:45-17:00		Huarong Yue	Liaocheng University
0 边界区域上带位置和速度约束 勇 钦			Jianwei Xia	Liaocheng University
^男 认 程	南京理工大学 南京理工大学		SaB11-4	16:45-17:00
任	用示理工入子			Neural-Network Observer for Descriptor Jump Sys
aB10-5	17:00-17:15		Mengjuan Hao	Liaocheng University
nfluence of the Discretizat	ion Methods for the Model of Lithium-ion Battery		Yanran Fu	Liaocheng University
pei Zhang	Anhui University		Yanan Meng	Liaocheng University
uan Fan	Anhui University		Zhihao Wang	Liaocheng University
iyong Kuang	Anhui University		Zihan Zhao	Liaocheng University
SaB10-6	17:15-17:30		Xuetong Zhang Guangming Zhuang	Liaocheng University Liaocheng University
				Liaocheng oniversity
30 带有测量误差和输入饱和约束 屈超	南京理工大学		SaB11-5	17:00-17:15
程	南京理工大学		-	ck System Based on Fully Actuated System Approa
· 1 王	用示理工八子		Wenhui Ning	Qufu Normal University
SaB10-7	17:30-17:45		Zhongcai Zhang	Qufu Normal University
35 Hybrid Dynamic Event-trig	gered Fixed-time Circumnavigation Control for Multiagent Systems		SaB11-6	17:15-17:30
nya Li	Nanjing University of Science and Technology			d-time Tracking Control for Underactuated Surface
n Wang	Nanjing University of Science and Technology		Huixuan Dong	Liaocheng University
uoqing Qi	Nanjing University of Science and Technology		Wei Sun Wenxing Yuan	Liaocheng University Liaocheng University
aoxing Zhu	Nanjing University of Science and Technology		2	5
SaB10-8	17:45-18:00		I SaB11-7	17:30-17:45
	out based on hybrid optimization of sparrow algorithm and Hippo optimization algorit	hm	-	ond-order CPSs Against Deception Attacks via Fully
ieFei Qin	Henan University of Science and Technology		Yifan Wang Wei Sun	Liaocheng University Liaocheng University
in Wang	Henan university of science and technology			
Xuhui Zhao	Henan University of Science and Technology		I SaB11-8	17:45-18:00
Wang Feng	CITIC Heavy Industries Co.,Ltd			cting key components on subway train roof
Liu Muhua	Henan University of Science and Technology		Ning Liu	Nanjing University of Science ar
hihang Ji	Henan University of Science and Technology		Juhui Zhang Zongyi Xing	Nanjing University of Science an
			Zongyi Xing Peng Zhou	Nanjing University of Science ar Nanjing University of Science ar
			F CHU ZHUU	



蔷薇厅

16:00-18:00

Theory to Mechanical Systems

ic Artificial Muscle-Actuated Parallel Robots

of modular unmanned system Technology Technology Technology Technology Technology Technology

ms With Deferred Constraint

r Jump Systems Against DoS Attacks

ed Surface Vessels

ks via Fully Actuated System Approach

oof nce and Technology nce and Technology ence and Technology ence and Technology Guangzhou Engineering Branch China Railway Signal&Communication Cor

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			Sunday, July 6,	2025 上午
SaB12	四楼荷花厅	16:00-18:00	SuA01	四楼牡丹月
	at Advances on Nonlinear Dynamic Systems Based o			tuated System Theory and Applicat
Chair: Yongyuan Yu Co-Chair: Shuai Liu	Shandong University Shandong University		Chair: Xiang Yin Co-Chair: Ziwen Yang	Shanghai Jiao Tong Universit Shanghai Jiao Tong Universit
SaB12-1	16:00-16:15		I SuA01-1	10:45-11:00
022 Event-triggered control for la	rge-scale systems with unknown coefficients and actuator faults: A fully actu	uated system approach		rget Entrapping Control of Autonomous Underwa
Yueyao Ye	Shandong University		Haifan Su	Shanghai Jiao Tong Universi
Yiyu Feng	Shandong University		Ziwen Yang	Shanghai Jiao Tong Universi
Xianfu Zhang	Shandong University		Shanying Zhu	Shanghai Jiao Tong Universit
SaB12-2	16:15-16:30		Cailian Chen	Shanghai Jiao Tong Universit
	epping Control for A Class of Strict-Feedback Nonlinear Systems Using Event	Triggered Output and Control Signals	SuA01-2	11:00-11:15
Xinmi Liu	Shandong University			on of a Varying Velocity Target for AUV Based on
Tingting Cheng	Shandong University		Zhaoming Zhang	Shanghai Jiao Tong Universit
Dawei Zhang	Shandong University		Haifan Su	Shanghai Jiao Tong Universit
SaB12-3	16:30-16:45		Ziwen Yang	Shanghai Jiao Tong Universit
	Fault-Tolerant Control of Linear Systems Against Multi-Channel Stochastic Ac	tuator Faults	Shanying Zhu	Shanghai Jiao Tong Universit
Xuan Yang	ShangDong University			
Na Pang	Shandong University		I SuA01-3	11:15-11:30
Dawei Zhang	Shandong University		0260 Tracking Control of Quadroto	rs Based on a High-Order Fully Actuated System A
_			Zeyuan Zhao	Shanghai Jiao Tong Universi
SaB12-4	16:45-17:00		Xianwei Li	Shanghai Jiao Tong Universi
	tion of Linear Boolean Control Networks			
Yuanpeng Ding	Shandong University		SuA01-4	11:30-11:45
Yunsi Yang	Shandong University			rstem Approaches: Trajectory Tracking of AGVs Ba
un-e Feng	Shandong University		Tailai Cao	Shanghai Jiao Tong Universit
Yongyuan Yu	Shandong University		Zhaoming Zhang	Shanghai Jiao Tong Universit
SaB12-5	17:00-17:15		Ziwen Yang	Shanghai Jiao Tong Universit
149 Fully-actuated System Appro-	ach Based Trajectory Tracking Control of Wheeled Mobile Robots		Shanying Zhu	Shanghai Jiao Tong Universit
Yao-Wei Wang	Wuhan University of Science and Technology		L 5:: A 01 - 5	11.45 12.00
DuFei Zhang	Wuhan University of Science and Technology		SuA01-5	11:45-12:00
Qi Wu	Zhejiang University of Technology			Safety-Critical Control of Underactuated Systems Central South University
Kiang Wu	Zhejiang University of Technology		Xiang Jia Bochen Li	Shanghai Jiao Tong Universit
Cao-Yuan Gu	Zhejiang University of Technology		Chenggang Wang	Shanghai Jiao Tong Universi
SaB12-6	17:15-17:30		Lei Song	Shanghai Jiao Tong Universi
085 On Fully Actuated Boolean Co			Dan Huang	Shanghai Jiao Tong Universit
Zewei Li	Shandong University		Xuanmin Du	HanJiang Laboratory
Yongyuan Yu	Shandong University		Addinini Du	
			I SuA01-6	12:00-12:15
SaB12-7	17:30-17:45			for Nonlinear High-order Fully Actuated Systems
	Node Control with Voltage-Current Dual-Loop Regulation on Dual Active Brid	ge Converter	Lin Yang	Shanghai Jiao Tong Universit
Sen Yang	Shandong university		Yuanlong Li	Shanghai Jiao Tong Universit
(i Wen	Shandong University		2	
Mengmeng Jing	Shandong university		I SuA01-7	12:15-12:30
(iangyang Xing	Shandong University		0829 Prescribed Performance-Bas	ed Anti-windup Design for Nonlinear Fully Actuate
SaB12-8	17:45-18:00		Lin Yang	Shanghai Jiao Tong Universi
	High-Order Fully Actuated Strict-Feedback Nonlinear Systems		Yuanlong Li	Shanghai Jiao Tong Universit
zifan liu	Shandong University			

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Shandong University

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10:45-12:30

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rwater Vehicles Using Fully Actuated System Approach

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SuA02	三楼第一会议室 10:45-12:15	SuA03	三楼第二会议室
Invited Session: Optimiza System Theory	ation and Learning Control of Networked Systems based on Fully Actuated	Invited Session: New D	evelopment on Nonlinear Systems
Chair: Guanglei Zhao	Yanshan University	Chair: Ping Li	Southern University of Science
Co-Chair: Fangzhou Fu	Sun Yat-sen University	Co-Chair: Ping Wang	Southern University of Science
SuA02-1	10:45-11:00	I SuA03-1	10:45-11:00
	n gantry cranes based on High-order Fully Actuated system	0280 Tracking Control for Cart-pole	Pendulum System Based on Fully Actuated System
Zhang Heng	Yanshan University	Haowen Liu	Southern University of Science
Weili Ding	Yanshan University	Weijie Ren	Southern University of Science
Changchun Hua	Yanshan University	Ping Li	Southern University of Science
Biao Lu	Nankai University	Guangren Duan	Harbin Institute of Technology
SuA02-2	11:00-11:15		11.00 11.15
0414 Intelligent Control of Hydraulic E	Excavators Based on Data-Driven GPC and High-Order Fully Actuated Systems	I SuA03-2	11:00-11:15
Xin Wen	Yanshan University	0640 Second-Order Nonaffine SFSs	Harbin Institute of Technology
Zhe Guan	Yanshan University	Guang-Ren Duan Ping Wang	Southern University of Science
Kuo Chen	Yanshan University	Pilig Wally	Southern oniversity of Science
Changchun Hua	Yanshan University	I SuA03-3	11:15-11:30
SuA02-3	11:15-11:30		Output Regulation for MASs with Prescribed Time Co
0627 Design of a PPO-PID Controller ba		Qinghua Hou	Dalian Maritime University
Lingyun Zhou	School of Electrical Engineering	Xudong Zhao	Dalian University of Technolog
Zhe Guan	Yanshan University	-	
Changchun Hua	Yanshan University	SuA03-4	11:30-11:45
Yafeng Li	Institute of Electrical Engineering, Yanshan University		zzy systems based on premise variable-dependent Dalian Maritime University
SuA02-4	11:30-11:45	Xudong Zhao	Dalian University of Technolog
0702 Adaptive Fixed-time Control of H	ligh-order Fully Actuated Systems Using Dynamic Regressor Extension and Mixing Estimators		
Yu Zhang	Yanshan University	I SuA03-5	11:45-12:00
Yixu Cai	Yanshan University		ler for Cube Robot Based on Fully Actuated System
Keli Pang	Yanshan University	Zixun Wang	Southern University of Science
Licui Zhao	Yanshan University	Guangren Duan	Harbin Institute of Technology
Changchun Hua	Yanshan University	Ping Li	Southern University of Science
SuA02-5	11:45-12:00		
0752 Distributed Self-Triggered Forma	ation Control for Fixed-Wing UAVs with Velocity and Overload Limits	I SuA03-6	12:00-12:15
Mingyang Wei	Yancheng Normal University		Robustness Analysis for LTI Systems with State and Ir
Yuheng Wei	Yancheng Teachers University	Xujie Zhang	Harbin Institute of Technology
Jiayi Chen	Yancheng Teachers College Tongyu Campus	Guangren Duan	Harbin Institute of Technology
Yong Chen	Yancheng Normal University		
Wei Guo	Yancheng Normal University		
Jin Zhenghong	Nanyang Technological University		
Zhanxiu Wang	Northeastern University		
SuA02-6	12:00-12:15		
0577 Containment Control of Linear He	eterogeneous Multi-agent Systems with Time Delay		
ShuQi Chen	Shenyang University of Technology		
Adiya Bao	Northeastern University		
Zhanxiu Wang	Northeastern University		
Xiaoming Su	Shenyang University of Technology		



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10:45-12:15

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SuA04	三楼第三会议室	10:45-12:15	SuA05	三楼第四会议室
Invited Session: Develop	ment on Nonlinear Systems and Its Applications (2)	Invited Session: 面	向高端智能装备的感知、控制与优化
Chair: Yuzhong Wang Co-Chair: Dan Ma	Northeastern University Northeastern University		Chair: 孙维超 Co-Chair: 李湛	哈尔滨工业大学 哈尔滨工业大学
SuA04-1	10:45-11:00		I SuA05-1	10:45-11:00
0379 A High step-up Common groun	d Thirteen-Level Switched-Capacitor Inverter with Reduced Components Cou	nt	0431 APCB SMD Solder Qua	lity Inspection Method Based on Dual-Path Region Segmentat
Yicong Li	Nanjing University of Science and Technology		Yang Cheng	Harbin Institute of Technology
lia Yao	Nanjing University of Science and Technology		Jinyong Yu Weihua Liu	Harbin Institute of Technology Yongjiang Laboratory
SuA04-2	11:00-11:15			
J390 Event-Based Prescribed Perforr	nance Control for Thermoacoustic Systems with Unknown Flame Response: A	A Fully Actuated System Approach	SuA05-2	11:00-11:15
Yuzhuo Zhao	Northeastern University		0515 Subpixel Measuremer	t Method for Surface Mount Devices Based on Edge Tracing
Dan Ma	Northeastern University		Weihua Liu	Yongjiang Laboratory
Yuzhong Wang	Northeastern University		Yi Peng Liu	Harbin Institute of Technology
	-		Chungang Han	Harbin Institute of Technology
SuA04-3	11:15-11:30			
0391 Output Tracking Control of Mob	ile Wheeled Inverted Pendulum with State Estimation via Fully Actuated Syste	em Approach	I SuA05-3	11:15-11:30
Shengjia Chen	Southern University of Science and Technology			of Linear Dynamical Systems with Skew-Heavy-Tailed Mixture
Haowen Liu	Southern University of Science and Technology		Kaihang Yu	Harbin Institute of Technology
Ping Li	Southern University of Science and Technology		Sen Li	Harbin Institute of Technology
-			Xinpeng Liu	Dalian University of Technology
SuA04-4	11:30-11:45		Xianqiang Yang	Harbin Institute of Technology
)399 Adaptive Fuzzy Tracking Contro	l for a Single-Link Flexible Joint Manipulator System Based on the Fully Actua	ated System Approaches		
Zhu meng	Bohai University		SuA05-4	11:30-11:45
Wen Bai	Bohai University			Simulated Annealing Algorithm for the PCB Assembly Process
Huanqing Wang	Bohai University		Lilong Yang	Harbin Institute of Technology
1 5 5			Yuhang Bi	Harbin Institute of Technology
SuA04-5	11:45-12:00		Zhitai Liu	Harbin Institute of Technology
0453 A Fully Actuated System Approa	ach to Adaptive Control for Half-Car Active Suspension Systems		Zhan Li	Harbin Institute of Technology
Tan Wang Southern	University of Science and Technology of China		Weichao Sun	Harbin Institute of Technology
He Kong	Southern University of Science and Technology			
Ping Li	Southern University of Science and Technology		I SuA05-5	11:45-12:00
Guangren Duan	Harbin Institute of Technology		Topologies and Multiple Me	
SuA04-6	12:00-12:15		Wenjing Wan	Harbin Institute of Technology
			Zhao-Yan Li	Harbin Institute of Technology
	eedback Systems: A FAS Approach Treatment			
Guang-Ren Duan	Harbin Institute of Technology		SuA05-6	12:00-12:15
Ping Li	Southern University of Science and Technology		0123 Event-triggered Adap	tive Robust Fault-tolerant Control for Interconnected Systems
			Jingbo Yang	Harbin Institute of Technology
			Shenglin Hu	Harbin Institute of Technology
			Zhitai Liu	Harbin Institute of Technology
			Zhan Li	Harbin Institute of Technology
				Uprhin Institute of Technology

The 4th Conference on Fully Actuated System Theory and Applications

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10:45-12:15

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ent Systems under Markovian Switching

Systems with Flexible Prescribed Performance

Harbin Institute of Technology

Weichao Sun



SuA06 Invited Session: 基于全	三楼第五会议室 全驱系统方法的约束控制、自适应控制及其应用	10:45-12:15	SuA07 Invited Session: 基于	三楼第六会议室 全驱系统理论的航天器姿态与轨道控制
Chair: 王 茜 Co-Chair: 黄秀韦	杭州电子科技大学 广东工业大学		Chair: 钱霙婧 Co-Chair: 陈立群	北京工业大学 北京工业大学
SuA06-1	10:45-11:00		I SuA07-1	10:45-11:00
028 Discrete-Time HOFA Adapti	ve Control for A Type of Combined Spacecraft with Unknown Parameters and State Delays		0149 Unwinding-Free Perform	ance of a Sliding-Mode Spacecraft Pose Controller Desig
aixin Cui	Taiyuan University of Technology		Fuzheng Xiao	Harbin Institute of Technology
Hao Lu	Harbin Institute of Technology		Yongheng Yu	Harbin Institute of Technology
SuA06-2	11:00-11:15		Liqun Chen	Harbin Institute of Technology
	els for Systems in System Upper Hessenberg Form		I SuA07-2	11:00-11:15
shiyu Zhang	Harbin Institute of Technology			
Guangren Duan	Harbin Institute of Technology			Control Based on the Fully-actuated Systems Approach U
Gualigien Duan	harbin institute of rechnology		Xuesong Li	Beijing University of Technolo
SuA06-3	11:15-11:30		Yingjing Qian	Beijing University of Technolog
	ed Cost Tracking Control for Flexible Joint Robot Based on FAS approach		SuA07-3	11:15-11:30
Liyao Hu	Anhui University of Science and Technology		0470 基于二阶锥规划的环火轨道	
Yajun Gao	Beijing Institute of Control and Electric Technology		胡楚逸	南京航空航天大学
	., .		龚柏春	南京航空航天大学
SuA06-4	11:30-11:45		马艳红	北京控制工程研究所
048 Adaptive backstepping trac	king control of space manipulator based on neural network		杨思亮	深空探测实验室
Qin Zhao	Ningbo University of Technology		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Guang-Ren Duan	Harbin Institute of Technology		SuA07-4	11:30-11:45
5			0587 基于状态扩展的非仿射欠驱	动系统高阶全驱动建模与控制方法
SuA06-5	11:45-12:00		邢桂君	南京航空航天大学
052 Predefined-time sliding mo	de control for robotic arm based on fully actuated system approaches		陈 提	南京航空航天大学
Qian Wang	Hangzhou Dianzi University			
iahao Shi	Hangzhou Dianzi University		SuA07-5	11:45-12:00
Zhaoyang Leng	Hangzhou Dianzi University			l for Test Mass Capture in the Release Phase of Gravitat
			Rongqing Yu	Harbin Institute of Technology
SuA06-6	12:00-12:15		Yan Xiao	Harbin Institute of Technology
0485 Event-Triggered Prescribed	-Time Non-adaptive Control for Uncertain Fully Actuated Nonlinear Systems		Dong Ye	Harbin Institute of Technology
Wenlong Pan	Yanshan University			
Changchun Hua	Yanshan University		I SuA07-6	12:00-12:15
Pengju Ning	Yanshan University			nstrained Robust MPC Method for Rendezvous with Spac
			Mingliang Wang	Shenyang Aerospace Universi
			Kaikai Dong	Shenyang Aerospace Universi
			Yuxi Zhang	Shenyang Aerospace Universi

The 4th Conference on Fully Actuated System Theory and Applications

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10:45-12:15

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SuA08		10:45-12:15	SuA09	三楼第八会议室
Invited Session: Stochas	stic Control with Constraints		Invited Session: Theory	and Application of Multimodal Co
Chair: Juanjuan Xu Co-Chair: Wei Wang	Shandong University Shandong University		Chair: Lu Minghao Co-Chair: Yihang Ding	The University of Hong Kong Harbin Institute of Technology
CO-Chair. Wer wang	Shandong oniversity			
SuA08-1	10:45-11:00		I SuA09-1	10:45-11:00
0168 Nash Equilibrium of Two-playe	er Stochastic Difference Game with Given Terminal State			Model Predictive Control for Switched Linear System
Qiangqiang Zhu	Shandong University		Yunpeng Li	Harbin Institute of Technology
Juanjuan Xu	Shandong University		Lixian Zhang Yuejiang Han	Harbin Institute of Technology Harbin Institute of Technology
SuA08-2	11:00-11:15		Tong Wu	Harbin Institute of Technology
0216 Exact Controllability of Discret	e-Time Rational Expectations Model		Yuting Ma	Harbin Institute of Technology
Wenjing Wang	Shandong University		Shengao Lu	Harbin Institute of Technology
Wei Wang	Shandong University			
Juanjuan Xu	Shandong University		SuA09-2	11:00-11:15
-				ontrol for Singular Switched Systems with Nonlinea
SuA08-3	11:15-11:30		Yuting Ma	Harbin Institute of Technology
0227 Optimal Control for Networked	l Systems with Multiple Delays and Packet Losses		Jianan Yang	Harbin Institute of Technology
Xinyu Jiang	Linyi University		Xiyang Zhi	Harbin Institute of Technology
Xincheng Liu	Linyi University		Jian Chen	Harbin Institute of Technology
Xianggang Zhao	Linyi University		Lixian Zhang	Harbin Institute of Technology
Jingmei Liu	Linyi University			
Xiao Ma	Linyi University		I SuA09-3	11:15-11:30
Xiao Liang	Linyi University		-	l Approach for Fast Obstacle Avoidance of UAVs
5			Minghao Lu	The University of Hong Kong
SuA08-4	11:30-11:45		I SuA09-4	11:30-11:45
0242 The Linear Quadratic Difference	e Nash Game under d-Step-Delay Information Sharing Pattern			
Wenyu Xu	Linyi University			ategy for Opinion Dynamic Games among Competiti
Xiao Liang	Linyi University		Guoqing Cai	Wuhan University of Science a
Fengzeng Zhu	Linyi University		Qingsong Liu	Wuhan University of Science a
Nana Jin	University of Jinan		I SuA09-5	11:45-12:00
Jingmei Liu	Linyi University			
				e Control of PMSM Based on Fractional-Order Exten
SuA08-5	11:45-12:00		Fangchao Wang	Northeast Forestry University
0532 An Encoding-Decoding-Based	State Estimation Scheme Considering Time Delay in Time-Correlated Fading Channels		Baolong Chen	Northeast Forestry University
Qiaoyu Yin	School of Electrical Engineering University of Jinan		Haocheng Wang	Northeast Forestry University Harbin Engineering University
Guiru Wang	School of Electrical Engineering University of Jinan		Yu Zhang	Harbin Engineering University
Chunyan Han	University of Jinan		I SuA09-6	12:00-12:15
Wei Wang	Shandong University			
				Asynchronously Switched Linear Systems with Stoch Harbin Institute of Technology
SuA08-6	12:00-12:15		Yihang Ding	
0546 Mean-square Bounded Conse	nsus for Multiple Underwater Biomimetic Vehicle-Manipulators with Packet Losses and Additiv	ve Noise	Ye Liang	Northeast Forestry University
Hongyu Ma	Shandong University		Jianan Yang Vifai Dang	Harbin Institute of Technology
Wei Wang	Shandong University		Yifei Dong	Harbin Institute of Technology
Chunyan Han	University of Jinan		Lixian Zhang	Harbin Institute of Technology

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SuA10	三楼第一教室	10:45-12:15	SuA11	三楼第二教室
Invited Session: Game theory, fully actuated system and intelligent control			Invited Session: Networked Nonlinear System Control a	
Chair: Rui Li Co-chair: Xiaojie Chen	University of Electronics Science and Technology of China University of Electronics Science and Technology of China		Chair: Cuihua Zhang Co-chair: Zhengyan Qin	Yanshan University Northeastern University
I SuA10-1	10:45-11:00		I SuA11-1	10:45-11:00
0148 Finite-Time Substabilization for	Nonholonomic Systems with Time Delay: A Fully Actuated System Approach		0275 3D Reconstruction of Cables for I	live-Working Robots in Distribution Networks
Xue Zhang	Harbin Institute of Technology		Jingtao Yan	Nanjing University of Science
Guangren Duan	Harbin Institute of Technology		Liaoxue Liu	Nanjing University of Science
5	57		Jian Guo	Nanjing University of Science
SuA10-2	11:00-11:15		Yu Guo	Nanjing University of Science
0157 Robust Control Based on Unkno	wn Input Disturbance Observer for Fully Actuated Systems			
Hong Jiang	Harbin Institute of Technology		SuA11-2	11:00-11:15
Guangren Duan	Harbin Institute of Technology		0281 Local Input-to-State Lyapunov Fi	unction Based Small-Gain Theorem for Nonline
_	57		Sijia Wang	Shenyang University of Techo
SuA10-3	11:15-11:30		Adiya Bao	Northeastern University
0276 Trajectory Tracking Control of Li	Inar Explorer Operation Robotic Manipulator Based on Fully Actuated System Approach		Zhanxiu Wang	Northeastern University
ling Xu	Sichuan University		Xiaoming Su	Shenyang University of Techr
Kai Zhang	Sichuan University		,	
/ue Wu	Southwest Jiaotong University		SuA11-3	11:15-11:30
Zhaoke Ning	Sichuan University			Combined With High-Order Backstepping for P
			Yi Liang	Yanshan University
SuA10-4	11:30-11:45		Luhan Zhang	Yanshan University
	Inknown State: A Bearing-only Circumnavigation Case		Cuihua Zhang	Yanshan University
Shida Cao	Harbin Institute of Technology		Ying Zhang	Yanshan University
Guangren Duan	Harbin Institute of Technology		Changchun Hua	Yanshan University
SuA10-5	11:45-12:00		I SuA11-4	11:30-11:45
0308 Impact of state feedback on evo	lution of cooperation in infinite and finite populations		0372 Adaptive Fixed-Time Switching T	hreshold Control for Uncertain Nonlinear Syste
Qiushuang Wang	University of Electronic Science and Technology of China		Yuxuan Liu	Yanshan University
Xiaojie Chen	University of Electronic Science and Technology of China		Zeyun Hu	Yanshan University
			Cuihua Zhang	Yanshan University
SuA10-6	12:00-12:15		Ying Zhang	Yanshan University
0684 Distributed Optimization of Higl	n-Order Multi-Agents Based on Activatable Event-Triggering Mechanisms		Changchun Hua	Yanshan University
_ihui Qian	Huazhong University of Science and Technology		j	
Yong Wang	Huazhong University of Science and Technology		I SuA11-5	11:45-12:00
/u Xu	Huazhong University of Science and Technology		0462 Design of a Data-Driven Adaptiv	e Controller based on FF-ITDL for High-Order F
lousheng Su	Huazhong University of Science and Technology		Yonghe Fu	Yanshan University
-			Zhe Guan	Yanshan University
			Hao Yu	Beijing Institute of Technolog
			Changchun Hua	Yanshan University
			I SuA11-6	12:00-12:15
			0479 3D Reconstruction and Pose Esti	mation of Non-cooperative Objects Based on S
			Xinrui Huang	Nanjing University of Science
			Yiman Zhu	Nanjing University of Science
			Lu Wang	Nanjing University of Science
			Liaoxue Liu	Nanjing University of Science
			Yu Guo	Nanjing University of Science
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SuA12	三楼第三教室	10:45-12:15	SuA13	四楼友谊厅
nvited Session: Interval	Estimation of Complex Systems		Invited Session: Intelli	gent Perception, Decision and Auton
Chair: Xiaoling Wang	Shanghai Jiao Tong University		Chair: Jianbin Qiu	Harbin Institute of Technology
Co-chair: Housheng Su	Huazhong University of Science and Technology		Co-Chair: Min Li	Harbin Institute of Technology
SuA12-1	10:45-11:00		I SuA13-1	10:45-11:00
648 Hybrid Dynamic Event-Triggered	d State Observer for Nonlinear Systems Satisfying Incremental Quadratic Constraints		0113 Predefned-Time Adaptive S	liding Mode Control for Multi-Agent Systems
ao Su	Soochow University		Shida Xun	Hebei University of Technology
Yuan Sun	Soochow University		Jiayou Guan	Hebei University of Technology
Jun Huang	Soochow University		Zuojun Liu	Hebei University of Technology
Keya Huang	Soochow University		Wei Zhang	Hebei University of Technology
			Wenqiang Ji	Hebei University of Technology
SuA12-2	11:00-11:15		Qifu Qu	China Aerospace Academy of Sy
0649 Finite-Time Interval Observer De	sign for Four-Mecanum-Wheeled Mobile Vehicle			
Jingyi Wu	Soochow University		I SuA13-2	11:00-11:15
un Huang	Soochow University			with a GRU-Based Actor Network for Capturing Tempora
Yueyuan Zhang	Soochow University		Yi Zhou	Harbin Institute of Technology
			Chuanjun Guo	Harbin Institute of Technology
SuA12-3	11:15-11:30		Tianhao Zhang	Harbin Institute of Technology
0651 Nonblocking Supervisory Contro	l with Finite-step Constraints in Agent-Task Systems		Zijing Li	Harbin Institute of Technology
Kaifeng Li	Nanjing University of Posts and Telecommunications		Jianbin Qiu	Harbin Institute of Technology
Xiaoling Wang	Shanghai Jiao Tong University			
Miaohong Luo	Huazhong University of Science and Technology		I SuA13-3	11:15-11:30
Yali Wu	Huazhong University of Science and Technology		0218 Prescribed Performance Co	ntrol for Attitude Tracking of Spacecraft via High-Order
Housheng Su	Huazhong University of Science and Technology		Dongyan Jin	Harbin Institute of Technology
			Tianhao Zhang	Harbin Institute of Technology
SuA12-4	11:30-11:45		Yichuan Fu	Harbin Institute of Technology
0679 Distributed Interval Observer De	sign over Directed Switching Topologies		Jianbin Qiu	Harbin Institute of Technology
Ning Cao	Nanjing University of Posts and Telecommunications			
Kiaoling Wang	Shanghai Jiao Tong University		I SuA13-4	11:30-11:45
				ne under Impulsive Control with Perceptual Delay
SuA12-5	11:45-12:00		Wanying Gao	Beijing Institute of Control Engir
0680 On distributed observer design	of a descriptor system		Jianfa Wu	Beijing Institute of Control Engir
eixiong Li	Nanjing University of Posts and Telecommunications		Chunling Wei	Beijing Institute of Control Engir
(iaoling Wang	Shanghai Jiao Tong University			
			I SuA13-5	11:45-12:00
SuA12-6	12:00-12:15		0455 Lane-changing and Overtal	king Trajectory Planning for Autonomous Vehicles Base
	zation Algorithm Based on Dynamic Event-Triggered Strategy		Jinfei Hu	Shanghai Normal University, Tia
Yu Xu	Huazhong University of Science and Technology		Wenjie Mao	Tongji University
Yong Wang	Huazhong University of Science and Technology		Yiqun Liu	Tongji University
_ihui Qian	Huazhong University of Science and Technology		Lifei Dai	Tongji University
Housheng Su	Huazhong University of Science and Technology		Changzhu Zhang	Tongji University
			I SuA13-6	12:00-12:15
			0796 Optimal Quantized Feedba	ck Control for the Linear-Quadratic-Gaussian System wi
			Xinyu Jiang	Linyi University
			Xincheng Liu	Linyi University
			Boqun Tan	School of Automation and Elect
			Xianggang Zhao	Linyi University
			Huiling Chen	Shandong university of Science

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lectrical Engineering, Linyi University

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Sunday, July 6, 2025下午

SuB01	四楼牡丹厅	13:30-15:30	SuB02
shan University)	ctuated System Theory and Applications Researc	ch Fund for Young Scholars ((Yan-	Application
Chair: Guopin Liu Co-Chair: Yafeng Li	Electrical engineering Institute of Electrical Engineering, Yanshan l	Jniversity	Chair: Li Qiu Co-Chair: Yiı
l SuB01-1 ^{0290 Stabilization of a fractional-or Yan-Qiao WEI Fu Biao Sun Da-Yan LIU Changchun Hua l SuB01-2}	13:30-13:45 der chaotic system based on fully actuated system approach Yanshan University School of Electrical Engineering, Yanshan Un INSA Centre Val de Loire Yanshan University 13:45-14:00	niversity	l SuB02-1 ^{0163 A Fully Actua} Jing Zhang Ruijia Yang Wendong Ga Gang Jing
⁰⁴³⁵ Adaptive Task-space Robust O Bo Zhang Changchun Hua Jiafeng Zhou Rui Meng Yafeng Li I SuB01-3	Control for Hydraulic Excavators: A High-Order Fully Actuated System Ap Yanshan University Yanshan University Yanshan University Institute of Electrical Engineering, Yanshan U 14:00-14:15 hydraulic actuators Based on the Fully Actuated System Approaches Yanshan University Yanshan University Yanshan University Yanshan University		l SuB02-2 ^{0340 Predictive Ob} Yiyang Liu Yiting Ma Shishuo Che Yucheng Wa Chenmei Son Li Qiu Feiqi Deng
Rui Meng Yafeng Li I SuB01-4 ^{0538 Leader-Following Output Con} Shuaigang Feng Yafeng Li Bo Zhang Jiafeng Zhou I SuB01-5	Yanshan University Institute of Electrical Engineering, Yanshan U 14:15-14:30 sensus for A Class of Lower-Triangular Multi-Agent Systems with Small T Yanshan University Institute of Electrical Engineering, Yanshan U Yanshan University Yanshan University 14:30-14:45	Transmission Delays Based on Fully Actuated Approach Jniversity	l SuB02-3 ⁰⁷⁵⁰ High-Order F Yiting Ma Yiyang Liu Yucheng Wa Shishuo Che Li Qiu Jun Wu Feiqi Deng
0564 Prescribed Performance Contr Zihao Li Guopin Liu Yu Zhang Changchun Hua I SuB01-6	ol for Nonlinear Systems with Input Quantization: A Fully Actuated Syste Yanshan University Electrical engineering Yanshan University Yanshan University 14:45-15:00	em Approach	l SuB02-4 ^{0804 Adaptive Pre} Zengwei Zhu Jiahao Zhan Ying Zhang
0700 Composite Learning-based Ac Yu Zhang Yixu Cai Keli Pang Guopin Liu Changchun Hua	Japtive Finite-time Parameters Estimation and Control for High-order Fu Yanshan University Yanshan University Yanshan University Electrical engineering Yanshan University	Illy Actuated Systems	SuB02-5 ⁰⁰⁵⁰ An Improved Zelong Yang Xiangyan Zh
YanaYang Long Chen Xiaoshuang Zhou	15:00-15:15 erver-based Closed-loop Control for Underactuated USV: High-order Fu Institute of Electrical Engineering Yanshan University Yanshan University	Illy Actuated System Approach	Hongfei Li Peng Liu Hongbo Har Wei Qin Yunxiang Zh
Shu-zong Chen Changchun Hua I SuB01-8 ^{0560 Adaptive Variable-Period Ever Hailong Cui guanglei zhao Weili Ding}	Yanshan University Yanshan University 15:15-15:30 nt-Triggered Control for High-Order Fully Actuated Nonlinear Multi-Ager Yanshan University Yanshan University Yanshan University Yanshan University	nt Systems	SuB02-6 ^{0220 Sensor Fault} Xin Yuan Fangzhou Fu Muye Yu Zhen Qian

Li Qiu Shenzhen University air: Ying Zhang Harbin Institute of Technology, Shenzhen 2-1 13:30-13:45 lly Actuated System Approach based Attitude Control for 3-DOF Helicopter nang Shandong University of Science and Technology Shandong University of Science and Technology Yang Shandong University of Science and Technology ong Gai ShanDong University of Science and Technology ing 2-2 13:45-14:00 ictive Observer-Compensated High-Order Fully Actuated Tracking Control for Linear Switched Reluctance Machine ı Liu Shenzhen University Ма Shenzhen university o Chen Shenzhen University ng Wang Shenzhen University nei Song Shenzhen University Shenzhen University South China University of Technology eng 2-3 14:00-14:15 --Order Fully Actuated Strict-Feedback System-Based Approach for Modeling and Tracking Control of Linear Switched Reluctance Machine Ma Shenzhen university ı Liu Shenzhen University ng Wang Shenzhen University io Chen Shenzhen University Shenzhen University Foshan University South China University of Technology)eng 14:15-14:30 2-4 ptive Prescribed-Time Force/Position Tracking Control for Flexible-Joint Robotic Manipulators vei Zheng Harbin Institute of Technology, Shenzhen Zhang Harbin Institute of Technology, Shenzhen Harbin Institute of Technology, Shenzhen hang 2-5 14:30-14:45 nproved ADC Effectiveness Evaluation Method for On-Orbit Spacecraft Based on Anomaly Information y Yang China Academy of Space Technology (CAST) an Zhang China Academy of Space Technology (CAST) ei Li China Academy of Space Technology (CAST) .iu China Academy of Space Technology (CAST) China Academy of Space Technology (CAST) o Han China Academy of Space Technology (CAST) ng Zhang China Academy of Space Technology (CAST) 2-6 14:45-15:00 or Fault Diagnosis for Satellite Attitude Control System Based on WPE and OOA-BP Neural Network Sun Yat-sen University an nou Fu Sun Yat-sen University Sun Yat-sen University

Sun Yat-sen University



三楼第一会议室 ation of Fully Actuated System Theory in Motor Control and Optimization

13:30-15:30



SuB02-7	15:00-15:15			I SuB03-6	14:45-15:00
2	andem dual-rotor cross-medium unmanned aerial vehicles based on the FAS method 中山大学深圳校区				rategy for Unmanned Vehicles via Improved Grey W
长柏嘉 长锦绣	中山大学体动校区			Haoyi Zhang	Chongqing Technology and Busi
小慧杰	中山大学			Huiyan Zhang	Chongqing Technology and Busi
				Wenting He	Chongqing Technology and Busi
SuB02-8	15:15-15:30			Xiaoli Chen	Chongqing Technology and Busi
	Global Space Situational Awareness Data and Information Sharing Systems			SuB03-7	15:00-15:15
Zelong Yang Kiangyan Zhang	China Academy of Space Technology (CAST) China Academy of Space Technology (CAST)			0542 Optimal Tracking Control for Whe	eled Mobile Robot via Adaptive Dynamic Programn
longfei Li	China Academy of Space Technology (CAST)			Jun Gou	Chongqing Technology and Busi
(iaochen Wang	China Academy of Space Technology (CAST)			Pengda Liu	Chongqing Technology and Busi
Aingjiang Zhang	China Academy of Space Technology (CAST)			Huichao Wang	Chongqing Technology and Busi
longbo Han	China Academy of Space Technology (CAST)			Ju Chen	Chongqing Technology and Busi
(i Chen	China Academy of Space Technology (CAST)			J SuB03-8	15:15-15:30
]		ing and Control of an Unmanned Vehicle
SuB03	三楼第四会议室	13:30-15:30		Jiamin Liu	Shenzhen Technology University
		13.30 13.30		Xiaoxu Liu	Shenzhen Technology University
-ully Actuated Theory-Bas	sed Control and its Application in Industrial Systems			Tan Zhang	Shenzhen Technology University
] 		
Chair: Jianxing Liu	Harbin Institute of Technology			SuB04	三楼第五会议室
Co-Chair: Xiaoning Shen	Harbin Institute of Technology			全驱系统理论在制导飞行器	中的应用
SuB03-1	13:30-13:45				
	control based on super-twisting disturbance observer for uncertain nonlinear systems				
Shouzhen Luan	Shandong University of Science and Technology			Chair: Jun-fang Fan	Beijing Information Science & Te
Bo Meng	Shandong University of Science and Technology			Co-Chair: Wei Wang	Beijing Institute of Technology
Vang Zhen	Shandong University of Science and Technology			J SuB04-1	13:30-13:45
SuB03-2	13:45-14:00				ngle Based on Fully Actuated System Approach
197 State-of-Health Estimation of Lith	ium Battery Based on PKO-Bagging-AdaBoost Ensemble Learning Algorithm			Shiwei Chen	Beijing Institute of Technology
chipeng Han	Jiangnan University			Wei Wang	Beijing Institute of Technology
ZeYang Chen	Jiangnan University			Zejun Zhu	Beijing Institute of Technology
inglong Pan	Jiangnan University			Jun-fang FAN	Beijing Information Science & Te
Veilin Yang Dezhi Xu	Jiangnan University Jiangnan University				
an Wang	Jiangnan University			SuB04-2	13:45-14:00
an wang	Julighan oniversity				or Intercepting Aerial Vehicles Using Proportional No
SuB03-3	14:00-14:15			Xin Zhao	Beijing Institute of Technology
222 Fixed-time consensus control stra	tegy for a class of nonlinear MAS			Jiang WANG	Beijing Institute of Technology
Ziqi Bai	Qufu Normal University			Yaning Wang Zichao Liu	Institute of Electronics and Syste
Venhai Qi	Qufu Normal University			Hongyan Li	Beijing Institute of Technology Beijing Institute of Technology
C. DO2 4	14.15 14.20			yinhan wang	Beijing Institute of Technology
SuB03-4	14:15-14:30			, man wang	seging instruce of rectinology
0325 Designated-time stabilization of Mingxue Xu	double-tank liquid level system Qufu Normal University			I SuB04-3	14:00-14:15
Zong-Yao Sun	Qufu Normal University				nce Observer-Based 3D Integrated Guidance and Co
iaojiao Li	Qufu Normal University			Hongyan Zhang	Beijing Institute of Technology
Qinghua Meng	Hangzhou Dianzi University			Wei Wang	Beijing Institute of Technology
	-			Shiwei Chen	Beijing Institute of Technology
SuB03-5	14:30-14:45				
				SuB04-4	14:15-14:30
0457 A Deep Reinforcement Learning-	Dolling Information Colones and Technology University			0387 Adaptive Sliding Mode Guidance	Law with Three-Dimensional Terminal Line-of-Sigh
9457 A Deep Reinforcement Learning- Kinru Li	Beijing Information Science and Technology University			oso, naapare saang node calaanee	
1457 A Deep Reinforcement Learning- Kinru Li Ku Wang	Beijing Information Science and Technology University			Yuguang Ji	School of Automation
¹⁴⁵⁷ A Deep Reinforcement Learning- Kinru Li Ku Wang unfang Fan	Beijing Information Science and Technology University Beijing Information Science and Technology University			Yuguang Ji Yi Ji	Beijing Institute of Technology
457 A Deep Reinforcement Learning- inru Li u Wang	Beijing Information Science and Technology University			Yuguang Ji	



Grey Wolf Optimizer and Artificial Potential Field Method

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13:30-15:30

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onal Navigation Guidance Law gy gy System engineering рgy

and Control Design Using Fully Actuated System Approach рgy рgy gу

f-Sight Angle Constraint

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	14:30-14:45	I SuB05-4	14:15-14:30
	ve Sliding Mode Guidance Law Based On Finite Time Prescrinbed Performance		he Perspective of Fully Actuated System
ngyu Wang	Beijing Information Science & Technology University	Liang Zhao	Dalian University of Technolo
	Beijing Institute of Technology	Yifan Guo	Dalian University of Technolo
ang FAN	Beijing Information Science & Technology University	Rui Lin	Dalian University of Technolo
-6	14:45-15:00	Yi Yang	Beihang University
(~) 化地图引导的三维实时路		I SuB05-5	14:30-14:45
	北京信息科技大学	0425 FAME: A Multi-Encoder	Time Series Forecasting Model Based on Fully Actuated S
	北京信息科技大学	Chengzhan Sui	Dalian University of Technolo
斌	北京信息科技大学	Rui Lin	Dalian University of Technolo
军芳 志浩	北京信息科技大学	Jlaoyuan Liang	Dalian University of Technolo
н		Jie Liu	Dalian University of Technolo
IB04-7	15:00-15:15	Liang Zhao	Dalian University of Technolo
-	ted Control of Guided Projectiles with Practical Actuator Constraints	-	
nyuan Wang	Beijing Information Science & Technology University	I SuB05-6	14:45-15:00
in-fang FAN	Beijing Information Science & Technology University	-	trol for Autonomous Vehicles Subject to Bandwidth-Lim
ngyi Quan	Beijing Information Science & Technology University	Mingming Zhang	University of Shanghai for Sci
SuB04-8	15:15-15:30	I SuB05-7	15:00-15:15
73 JKAN-YOLO:一种无人机航拍		0195 Fault Diagnosis of Lithiu	m Battery Packs Based on Hybrid Attention-Enhanced Cl
信倩	北京信息科技大学	Lingzhi Wang	Jiangnan University
军芳	北京信息科技大学	ZeYang Chen	Jiangnan University
奉茹	北京信息科技大学	Tinglong Pan	Jiangnan University
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		Dezhi Xu	Southeast University
uB05	三楼第六会议室 13:30-15:3	0 Degin Xu Dongnian Jiang	Lanzhou University of Techno
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驱杀玧理论视用下的.		I SuB05-8	15:15-15:30
驱系筑理论视用下的. 		0574 A Hybrid-Modulated Sw	itched-Capacitor Multilevel Inverter with ZVS for Reduce
	入致加力加 	0574 A Hybrid-Modulated Sw Ankai Liu	tched-Capacitor Multilevel Inverter with ZVS for Reducer Nanjing University of Science
ir: 杨 懿		0574 A Hybrid-Modulated Sw	itched-Capacitor Multilevel Inverter with ZVS for Reduce
ir: 杨 懿 Chair: 赵 亮	北京航空航天大学/鹏城实验室 大连理工大学	0574 A Hybrid-Modulated Sw Ankai Liu Jia Yao	itched-Capacitor Multilevel Inverter with ZVS for Reducer Nanjing University of Science Nanjing University of Science
nair: 杨 懿 o-Chair: 赵 亮 GuB05-1	北京航空航天大学/鹏城实验室 大连理工大学 13:30-13:45	0574 A Hybrid-Modulated Sw Ankai Liu	tched-Capacitor Multilevel Inverter with ZVS for Reducer Nanjing University of Science
nair: 杨 懿)-Chair: 赵 亮 GuB05-1 14 Feature Clustering and Fau	北京航空航天大学/鹏城实验室 大连理工大学 13:30-13:45 ilt-Tolerant Control of Multimodal Missing Data in a Fully Actuated System	0574 A Hybrid-Modulated Sw Ankai Liu Jia Yao SuB06	itched-Capacitor Multilevel Inverter with ZVS for Reduced Nanjing University of Science Nanjing University of Science 三楼第七会议
nair: 杨 懿 o-Chair: 赵 亮 54 Feature Clustering and Fau shan Ye	北京航空航天大学/鹏城实验室 大连理工大学 13:30-13:45	0574 A Hybrid-Modulated Sw Ankai Liu Jia Yao SuB06	itched-Capacitor Multilevel Inverter with ZVS for Reducer Nanjing University of Science Nanjing University of Science
air: 杨 懿 Chair: 赵 亮 uB05-1 4 Feature Clustering and Fau shan Ye ubin Ma	北京航空航天大学/鹏城实验室 大连理工大学 13:30-13:45 ilt-Tolerant Control of Multimodal Missing Data in a Fully Actuated System Tsinghua University	0574 A Hybrid-Modulated Sw Ankai Liu Jia Yao SuB06	itched-Capacitor Multilevel Inverter with ZVS for Reduced Nanjing University of Science Nanjing University of Science 三楼第七会议
air: 杨 懿 ·Chair: 赵 亮 JB05-1 Feature Clustering and Fau nan Ye Jbin Ma an Guo	北京航空航天大学/鹏城实验室 大连理工大学 13:30-13:45 Ilt-Tolerant Control of Multimodal Missing Data in a Fully Actuated System Tsinghua University Dalian University of Technology	0574 A Hybrid-Modulated Sw Ankai Liu Jia Yao SuB06 Distributed Parame	itched-Capacitor Multilevel Inverter with ZVS for Reduced Nanjing University of Science Nanjing University of Science 三楼第七会议 ter Systems: Theory and Applications
air:杨 懿 -Chair:赵 亮 uB05-1 ^{4 Feature Clustering and Fau} han Ye ubin Ma an Guo ang Zhao	北京航空航天大学/鹏城实验室 大连理工大学 13:30-13:45 alt-Tolerant Control of Multimodal Missing Data in a Fully Actuated System Tsinghua University Dalian University of Technology Dalian Technology of University	0574 A Hybrid-Modulated Sw Ankai Liu Jia Yao SuB06 Distributed Parame Chair: Xiang Xu	itched-Capacitor Multilevel Inverter with ZVS for Reduced Nanjing University of Science Nanjing University of Science 三楼第七会议 ter Systems: Theory and Applications Southern University of Science
aair: 杨 懿 Chair: 赵 亮 GuB05-1 Hefeature Clustering and Fau Shan Ye Hubin Ma fan Guo ang Zhao Yang	北京航空航天大学/鹏城实验室 大连理工大学 13:30-13:45 Itt-Tolerant Control of Multimodal Missing Data in a Fully Actuated System Tsinghua University Dalian University of Technology Dalian Technology of University Dalian University of Technology Baihang University	0574 A Hybrid-Modulated Sw Ankai Liu Jia Yao SuB06 Distributed Parame	itched-Capacitor Multilevel Inverter with ZVS for Reduced Nanjing University of Science Nanjing University of Science 三楼第七会议 ter Systems: Theory and Applications
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nair:杨 懿 o-Chair:赵 亮 SuB05-1 ^{34 Feature Clustering and Fau shan Ye hubin Ma fan Guo ang Zhao Yang SuB05-2 39 Fully Actuated System-Base}	北京航空航天大学/鹏城实验室 大连理工大学 13:30-13:45 Ilt-Tolerant Control of Multimodal Missing Data in a Fully Actuated System Tsinghua University Dalian University of Technology Dalian Technology of University Dalian University of Technology Baihang University 13:45-14:00	0574 A Hybrid-Modulated Sw Ankai Liu Jia Yao SuBO6 Distributed Parame Chair: Xiang Xu Co-Chair:Ji Wang I SuB06-1	itched-Capacitor Multilevel Inverter with ZVS for Reduced Nanjing University of Science Nanjing University of Science 三楼第七会议 ter Systems: Theory and Applications Southern University of Science Xiamen University 13:30-13:45 tion for a class of nonlinear PDE-ODE cascade systems
air: 杨 懿 -Chair: 赵 亮 #Feature Clustering and Fau han Ye Jbin Ma an Guo ng Zhao (ang uB05-2 PFully Actuated System-Base 懿	北京航空航天大学/鹏城实验室 大连理工大学 13:30-13:45 Ilt-Tolerant Control of Multimodal Missing Data in a Fully Actuated System Tsinghua University Dalian University of Technology Dalian Technology of University Dalian University of Technology Beihang University 13:45-14:00 ed Deep Learning Method for Blast Furnace Fault Diagnosis	0574 A Hybrid-Modulated Sw Ankai Liu Jia Yao SuBO6 Distributed Parame Chair: Xiang Xu Co-Chair:Ji Wang I SuB06-1	itched-Capacitor Multilevel Inverter with ZVS for Reduce Nanjing University of Science Nanjing University of Science 三楼第七会议 ter Systems: Theory and Applications Southern University of Science Xiamen University 13:30-13:45 tion for a class of nonlinear PDE-ODE cascade systems Southern University of Science
aair:杨 懿 b-Chair:赵 亮 GuB05-1 P4 Feature Clustering and Fau shan Ye Jubin Ma fan Guo ang Zhao Yang GuB05-2 19 Fully Actuated System-Base 懿 铭浩	北京航空航天大学/鹏城实验室 大连理工大学 13:30-13:45 It-Tolerant Control of Multimodal Missing Data in a Fully Actuated System Tsinghua University Dalian University of Technology Dalian Technology of University Dalian University of Technology Beihang University 13:45-14:00 ed Deep Learning Method for Blast Furnace Fault Diagnosis Beihang University	0574 A Hybrid-Modulated Sw Ankai Liu Jia Yao SuBO6 Distributed Parame Chair: Xiang Xu Co-Chair:Ji Wang I SuB06-1 0228 State feedback stabiliza	itched-Capacitor Multilevel Inverter with ZVS for Reduce Nanjing University of Science Nanjing University of Science 三楼第七会议 ter Systems: Theory and Applications Southern University of Science Xiamen University 13:30-13:45 tion for a class of nonlinear PDE-ODE cascade systems Southern University of Science
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air:杨 懿 Chair:赵 亮 uB05-1 4 Feature Clustering and Fau than Ye ubin Ma an Guo ang Zhao Yang uB05-2 9 Fully Actuated System-Base 懿 路浩 燕京 寒玉 亮	北京航空航天大学/鹏城实验室 大连理工大学 13:30-13:45 It-Tolerant Control of Multimodal Missing Data in a Fully Actuated System Tsinghua University Dalian University of Technology Dalian Technology of University Dalian University of Technology Beihang University 13:45-14:00 ed Deep Learning Method for Blast Furnace Fault Diagnosis Beihang University Beihang University Beihang University Beihang University Beihang University Beihang University	0574 A Hybrid-Modulated Sw Ankai Liu Jia Yao SuBO6 Distributed Parame Chair: Xiang Xu Co-Chair: Ji Wang I SuBO6-1 0228 State feedback stabiliza Xiang Xu Tao Wu I SuBO6-2 0266 Output regulation for ar	itched-Capacitor Multilevel Inverter with ZVS for Reduced Nanjing University of Science Nanjing University of Science 三楼第七会议 ter Systems: Theory and Applications Southern University of Science Xiamen University 13:30-13:45 tion for a class of nonlinear PDE-ODE cascade systems Southern University of Science Southern University of Science 13:45-14:00
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shan Ye hubin Ma ifan Guo ang Zhao i Yang SuB05-2 39 Fully Actuated System-Base 語 路浩 藝燕京 琴玉 公 亮 SuB05-3 07 基于多频域全驱系统的时间序	北京航空航天大学/鹏城实验室 大连理工大学 13:30-13:45 It-Tolerant Control of Multimodal Missing Data in a Fully Actuated System Tsinghua University Dalian University of Technology Dalian Technology of University Dalian University of Technology Beihang University 13:45-14:00 ed Deep Learning Method for Blast Furnace Fault Diagnosis Beihang University Beihang University Beihang University Beihang University Beihang University Dalian University of Technology 14:00-14:15	0574 A Hybrid-Modulated Sw Ankai Liu Jia Yao SuBO6 Distributed Parame Chair: Xiang Xu Co-Chair: Ji Wang I SuBO6-1 0228 State feedback stabiliza Xiang Xu Tao Wu I SuBO6-2 0266 Output regulation for ar Shen Wang Zhong-Jie Han	itched-Capacitor Multilevel Inverter with ZVS for Reduce Nanjing University of Science Nanjing University of Science 三楼第七会议 ter Systems: Theory and Applications Southern University of Science Xiamen University 13:30-13:45 tion for a class of nonlinear PDE-ODE cascade systems Southern University of Science Southern University of Science 13:45-14:00 unstable wave equation with output delay and one me Tianjin University Tianjin University
hair:杨 懿 o-Chair:赵 亮 SuB05-1 ^{34 Feature Clustering and Fau shan Ye hubin Ma ifan Guo ang Zhao i Yang SuB05-2 ^{39 Fully Actuated System-Base} 5 路浩 陸燕京 家裏玉 公 亮 SuB05-3 07 基于多频域全驱系统的时间序 J致远}	北京航空航天大学/鹏城实验室 大连理工大学 13:30-13:45 It-Tolerant Control of Multimodal Missing Data in a Fully Actuated System Tsinghua University Dalian University of Technology Dalian Technology of University Dalian University of Technology Beihang University 13:45-14:00 ed Deep Learning Method for Blast Furnace Fault Diagnosis Beihang University Beihang University Beihang University Beihang University Dalian University of Technology 14:00-14:15	0574 A Hybrid-Modulated Sw Ankai Liu Jia Yao SuBO6 Distributed Parame Chair: Xiang Xu Co-Chair: Ji Wang I SuB06-1 0228 State feedback stabiliza Xiang Xu Tao Wu I SuB06-2 0266 Output regulation for ar Shen Wang Zhong-Jie Han Shuangxi Huang	itched-Capacitor Multilevel Inverter with ZVS for Reduced Nanjing University of Science Nanjing University of Science 三楼第七会议 ter Systems: Theory and Applications Southern University of Science Xiamen University 13:30-13:45 tion for a class of nonlinear PDE-ODE cascade systems Southern University of Science Southern University of Science 13:45-14:00 unstable wave equation with output delay and one me Tianjin University Tianjin University Shandong Normal University
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thengcai Li Nanjing University of Chinese Medicine I SuB07-1 Yuqing Chen Nanjing University of Science and Technology Jun Sun SuB07 三楼第八会议室 13:30-15:30 Intelligent Game-Theoretic Collaborative Planning, Decision-Making, and Control for Spacecraft Swarms I SuB07-8 Intelligent Game-Theoretic Collaborative Planning, Decision-Making, and Control for Spacecraft Swarms I SuB07-8 Intelligent Game-Theoretic Collaborative Planning, Decision-Making, and Control for Spacecraft Swarms Dong fang ZH Ichair: Fei Han Shanghai Aerospace Control Technology Institute XiaoGuang H Co-Chair: Zhu Qinghua Shanghai Aerospace Control Technology Institute XiaoGuang H Chorn I 13:30-13:45 SuB08 Intelligent Co SuB07-1 13:30-13:45 SuB08 Intelligent Co Su22 Equivalent Dynamic Modeling of Super-Long Radar Antenna Shanghai Aerospace Control Technology Institute Chair: Huany Liu Tian Shanghai Aerospace Control Technology Institute Chair: Huany Co-Chair: We Syn Dongfang Zhu Shanghai Aerospace Control Technology Institute Chair: Huany Co-Chair: We Syn Dongfang Zhu Shanghai Aerospace Control Technology Institute I SuB08-1 Coo2Adaptive lief <td>-</td> <td></td> <td>Dong ruan E</td>	-		Dong ruan E
Yuqing Chen Nanjing University of Science and Technology Def3 Equivalent Pije Sun Yiao Kaka Zhai Suzhou University of Science and Technology Jin Sun StuBO7 E楼第八会议室 13:30-15:30 Intelligent Game-Theoretic Collaborative Planning, Decision-Making, and Control for Spacecraft Swarms I SuB07-8 Chair: Fei Han Shanghai Aerospace Control Technology Research Institute O(ichao Lv Co-Chair: Zhu Qinghua Shanghai Aerospace Control Technology Institute Dong Yuan L Yabin Gao Harbin Institute of Technology Institute Chen Xi SuB07-1 13:30-13:45 Suzbou University effective load Su2 Equivalent Pynamic Modelling of Super- Long Radar Antenna Gaoxuan Yan Shanghai Aerospace Control Technology Institute Julu Tian Shanghai Aerospace Control Technology Institute Chair: Huany Co-Chair: We SuB07-2 13:45-14:00 Yi Yi Synthetide optical frequency domain measurement system based on common single-mode optical fiber I SuB08-1 Su2 Adaptive Iter Yi Ulu Tian Shanghai Aerospace Control Technology Institute Yi Chair: Huany SuB07-2 13:45-14:00 Yi Yi Yi Shanghai Aerospace Control Tech	-		I SuB07-7
iaokai Zhai Suzhou University of Science and Technology Justice Sulfity Support E使第八会议室 13:30-15:30 SUB07 E使第八会议室 13:30-15:30 It SuB07-8 Oogo Repetitive Iod Qichao Lv Pei Ni Dong Yuan Li Xiao Gao Harbin Institute of Technology Institute Yabin Gao Harbin Institute of Technology Institute Yabin Gao Harbin Institute of Technology Institute SuB07-1 13:30-13:45 SUB07-1 13:30-13:45 SUB08 Intelligent Control Technology Institute ong fang Zhu Shanghai Aerospace Control Technology Institute ong fang Zhu Shanghai Aerospace Control Technology Institute SuB07-2 13:45-14:00 Yi Distributed optical frequency domain measurement system based on common single-mode optical fiber ulu Tian Shanghai Aerospace Control Technology Institute SuB07-2 13:45-14:00 Yi Distributed optical frequency domain measurement system based on common single-mode optical fiber ulu Tian Shanghai Aerospace Control Technology Institute SuB07-2 13:45-14:00 Yi Distributed optical frequency domain measurement system based on common single-mode optical fiber ulu Tian Shanghai Aerospace Control Technology Institute SuB07-2 13:45-14:00 Yi Distributed optical frequency domain measurement system based on common single-mode optical fiber ulu Tian Shanghai Aerospace Control Technology Institute iaoxuan Yan Shanghai Aerospace Control Technology Institute SuB07-2 13:45-14:00 Yi Distributed optical frequency domain measurement system based on common single-mode optical fiber ulu Tian Shanghai Aerospace Control Technology Institute iaoxuan Yan Shanghai Aerospace Control Technology Institute Subanghai Aerospace Control Technology Institute Subanghai Aerospace Control Technology Institute Shanghai Aerospace Control Technology Institute Shang	_		0443 Equivalent pla
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httelligent Game-Theoretic Collaborative Planning, Decision-Making, and Control for Spacecraft Swarms 0400 Repetitive lock hair: Fei Han Shanghai Aerospace Control Technology Research Institute Dong Yuan Li hair: Fei Han Shanghai Aerospace Control Technology Institute Dong Yuan Li yabin Gao Harbin Institute of Technology Institute Yabin Gao yabin Gao Harbin Institute of Technology Institute SuB07-1 13:30-13:45 SuB08 Sugara Shanghai Aerospace Control Technology Institute Intelligent Co Juu Tian Shanghai Aerospace Control Technology Institute Intelligent Co Iul Tian Shanghai Aerospace Control Technology Institute Chair: Huany ongfang Zhu Shanghai Aerospace Control Technology Institute Chair: Huany SuB07-2 13:45-14:00 Yi Z Yi Zi Jisutbuted optical frequency domain measurement system based on common single-mode optical fiber I SuB08-1 Jul Tian Shanghai Aerospace Control Technology Institute I sub08-1 SuB07-2 13:45-14:00 Yi Zi Yi Distributed optical frequency domain measurement system based on common single-mode optical fiber I sub08-1 Jul Tian Shanghai Aerospace Control Te			Doligialig Zi
Complex Mission Environments Qichao Lv Fei Ni Dong Yuan Lv Air: Fei Han Shanghai Aerospace Control Technology Research Institute XiaoGuang H Chair: Zhu Qinghua Shanghai Aerospace Control Technology Institute Chen Xi Yabin Gao Harbin Institute of Technology SuB08 Istore SuB08 Intelligent Co equivalent Dynamic Modeling of Super-Long Radar Antenna Intelligent Co oxuan Yan Shanghai Aerospace Control Technology Institute Chair: Huany oy Hang Shanghai Aerospace Control Technology Institute Chair: Huany ogfang Zhu Shanghai Aerospace Control Technology Institute Chair: Huany IBO7-2 13:45-14:00 Yi Z Distributed optical frequency domain measurement system based on common single-mode optical fiber I SuB08-1 u Tian Shanghai Aerospace Control Technology Institute I SuB08-1 u Tian Shanghai Aerospace Control Technology Institute Chair: Huany co-Chair: We Yi Z I SuB08-1 u Tian Shanghai Aerospace Control Technology Institute I SuB08-1 u Tian Shanghai Aerospace Control Technology Institute I SuB08-1			
Fei Ni Dong Yuan LV vair: Fei Han Shanghai Aerospace Control Technology Research Institute XiaoGuang H v-Chair: Zhu Qinghua Shanghai Aerospace Control Technology Institute Yabin Gao vabin Gao Harbin Institute of Technology SuB08 suB07-1 13:30-13:45 SuB08 aoxuan Yan Shanghai Aerospace Control Technology Institute Intelligent Co day ung Shanghai Aerospace Control Technology Institute Chair: Huanyu g Huang Shanghai Aerospace Control Technology Institute Chair: Huanyu ongfang Zhu Shanghai Aerospace Control Technology Institute Co-Chair: Wei iuB07-2 13:45-14:00 Yi Z 1 Distributed optical frequency domain measurement system based on common single-mode optical fiber I SuB08-1 Iu Tian Shanghai Aerospace Control Technology Institute I SuB08-1 oozya Adaptive Iterat Chair: Huanyu Co-Chair: Wei iu Tian Shanghai Aerospace Control Technology Institute I SuB08-1 oozya Adaptive Iterat Chairy Huang Xing Chairy Huang Xing aoxuan Yan Shanghai Aerospace Control Technology Institute I SuB08-1 oozya Adaptive Iterat <			
air: Fei Han Shanghai Aerospace Control Technology Research Institute XiaoGuang H -Chair: Zhu Qinghua Shanghai Aerospace Control Technology Institute Arbin Institute of Technology Institute Harbin Institute of Technology Institute Technology Institute 13:30-13:45 2 Equivalent Dynamic Modeling of Super-Long Radar Antenna aoxuan Yan Shanghai Aerospace Control Technology Institute Iu Tian Shanghai Aerospace Control Technology Institute Shanghai Aerospace Control Technology Institute Shanghai Aerospace Control Technology Institute Iu Tian Shanghai Aerospace Control Technology Institute Shanghai Aerospace Control Technology Institute Iu B07-2 13:45-14:00 Co-Chair: We aoxuan Yan Shanghai Aerospace Control Technology Institute Iu Tian Shanghai Aerospace Control Technology Institute Shanghai Aerospace Control Technology Institute Iu Tian Shanghai Aerospace Control Technology Institute Iu Tian Shanghai Aerospace Control Technology Institute Iu Tian Shanghai Aerospace Control Technology Institute Shanghai Aerospace Control Technology Institute Iu Tian Shanghai Aerospace Control Technology Institute Co-Chair: We aoxuan Yan Shanghai Aerospace Control Technology Institute Iu Tian Shanghai Aerospace Control Technology Institute Iu XuYang Xing			
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Yabin Gao Harbin Institute of Technology uB07-1 13:30-13:45 2 Equivalent Dynamic Modeling of Super-Long Radar Antenna Intelligent Co aoxuan Yan Shanghai Aerospace Control Technology Institute lu Tian Shanghai Aerospace Control Technology Institute g Huang Shanghai Aerospace Control Technology Institute ngfang Zhu Shanghai Aerospace Control Technology Institute uB07-2 13:45-14:00 1 Distributed optical frequency domain measurement system based on common single-mode optical fiber I SuB08-1 lu Tian Shanghai Aerospace Control Technology Institute Sub			XiaoGuang H
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aoxuan YanShanghai Aerospace Control Technology InstituteIlu TianShanghai Aerospace Control Technology InstituteIng HuangShanghai Aerospace Control Technology InstituteShanghai Aerospace Control Technology InstituteChair: HuanyCo-Chair: WeYi ZSuB07-213:45-14:00Shanghai Aerospace Control Technology InstituteI SuB08-1Ilu TianShanghai Aerospace Control Technology Instituteaoxuan YanShanghai Aerospace Control Technology InstituteXuYang Xing	22 Equivalent Dynamic Modeling o	of Super-Long Radar Antenna	
In g HuangShanghai Aerospace Control Technology InstituteChair: HuanySongfang ZhuShanghai Aerospace Control Technology InstituteCo-Chair: WeSuB07-213:45-14:00Yi ZiIn Distributed optical frequency domain measurement system based on common single-mode optical fiberI SuB08-1Iu TianShanghai Aerospace Control Technology Institute0023 Adaptive Iteraaoxuan YanShanghai Aerospace Control Technology Institute0023 Adaptive IteraXuYang XingSuanghai Aerospace Control Technology InstituteSuanghai Aerospace Control Technology Institute	aoxuan Yan		
Dongfang ZhuShanghai Aerospace Control Technology InstituteChair: Huany Co-Chair: We Yi 2SuB07-213:45-14:00Yi 2S71 Distributed optical frequency domain measurement system based on common single-mode optical fiber ulu TianI SuB08-1Shanghai Aerospace Control Technology Institute iaoxuan YanShanghai Aerospace Control Technology InstituteO023 Adaptive Itera Chengzu Liu XuYang Xing			
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室 13:30-15:30 ated Systems and Complex Systems

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Synthetic Data and Technology and Technology Nanjing University of Science and Technology



SuB08-2	13:45-14:00		
0519 Intermediate-variable-based	Non-fragile Estimation for Persistent Dwell-time Switched Systems	SuB09	三楼第二教室
Shiyu Jiao	Huaiyin Institute of Technology	Unmanned System Con	trol Based on High-Order Fully Act
Yifan Yang	Huaiyin Institute of Technology		
Jiaheng Zhang	Huaiyin Institute of Technology		
Huanyu Zhao	Huaiyin Institute of Technology	Chair: Xuefei Yang	Harbin Institute of Technology
Wei Liu	Huaiyin Institute of Technology	Co-Chair: Kai Zhang	Harbin Institute of Technology
Pengcheng Zhang	Huaiyin Institute of Technology	Jiahui Wang	Hebei University of Technology
I SuB08-3	14:00-14:15	I SuB09-1	13:30-13:45
0527 Prescribed-time affine format	tion control for Nonholonomic constrained robots	0241 Event-triggered mechanism ba	ased finite-time and prescribed-time control
JiYe Tang	Jiangsu University of Science and Technology	Zhang Kai	Harbin Institute of Technology
Jianzhen Li	Jiangsu University of Science and Technology		
Junyi Zhou	Jiangsu University of Science and Technology	I SuB09-2	13:45-14:00
Guicai Liu	Jiangsu University of Science and Technology	0257 Analysis of Evolutionary Game	Dynamics with Both Ally and Enemy Strategies
Ning Qiao	Jiangsu University of Science and Technology	Kefei Chen	Wuhan University of Science ar
SuB08-4	14:15-14:30	Qingsong Liu	Wuhan University of Science an
		SuB09-3	14:00-14:15
	Integrator Agents with Switching Topologies and Delays		
Chang-jiang Li	Jiangsu University of Science and Technology	0512 Fully Distributed Consensus of Kai Zhang	Discrete-time Periodic Linear Multi-agent Systems v
Zhaoping Du	Jiangsu University of Science and Technology	-	Harbin Institute of Technology Harbin Institute of Technology
Jianzhen Li	Jiangsu University of Science and Technology	Zhanpeng Feng	Harbin institute of rechnology
Shuxia Ye	Jiangsu University of science and Technology	SuB09-4	14:15-14:30
Xueying Sun	Jiangsu University of Science and Technology	0529 Review and Frontier Exploratio	
HengJie Xu	Jiangsu University of Science and Technology	Shoudu Du	Southeast University
Qi Fu	Jiangsu University of Science and Technology	Hongru Li	Southeast University
	14.20 14.45	Xuefei Yang	Harbin Institute of Technology
SuB08-5	14:30-14:45	Xin Gong	Southeast University
	cking for Nonlinear Systems Based on Fully Actuated System Theory	Air Gong	Sourcest oniversity
Yunfei Qiu	Jiangsu University	I SuB09-5	14:30-14:45
SuB08-6	14:45-15:00	0530 Safe Reinforcement Learning v	vith Constraints: A Survey
0051 Finite-Time Tracking Control f	or Wheeled Mobile Robots with Uncalibrated Parameter and Disturbances	Zhengyu Chen	Southeast University
Guosheng Zhang	Hohai University	Hongru Li	Southeast University
Zheyi Zhu	Huohai Universty	Xuefei Yang	Harbin Institute of Technology
Md Mahmudul Hasan	Hohai University	Xin Gong	Southeast University
Shang Shi	Nanjing University of Posts and Telecommunications		
5		I SuB09-6	14:45-15:00
SuB08-7	15:00-15:15	Wenbo Fu	cular Orbit Rendezvous by Impulsive Control China University of Mining and
0120 Finite Time Preassigned Perfo	rmance Control of Non-strict Feedback Systems with Asymmetric State Constraints	Weinbol Pu Weiwei Luo	Harbin Institute of Technology
Yifan Yang	Huaiyin Institute of Technology	Song Zhu	China University of Mining and
Wei Tang	Huaiyin Institute of Technology	Li Hongru	China Academy of Aerospace S
Wei Liu	Huaiyin Institute of Technology	Li Hongru	china Academy of Aerospace 5
Huanyu Zhao	Huaiyin Institute of Technology	I SuB09-7	15:00-15:15
SuB08-8	15:15-15:30		er Strict-Feedback System Based on Fully Actuated S
	control for Constrained Stochastic Nonlinear Systems with Unknown Covariance Noise	Wenhui Ning	Qufu Normal University
Zhicheng Wei	Nanjing University of Science and Technology	Zhongcai Zhang	Qufu Normal University
Huifang Min	Nanjing University of Science and Technology		15.15 15.20
-		SuB09-8	15:15-15:30 Controllers for Underactuated Systems: an Example
		Yuanbo Chen	Southeast University
		Xin Xin	Southeast University
		Ziyu Wang	Southeast University
		Liya Wang	2000 Conversity

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13:30-15:30

Actuated System Approaches

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ple of the Cart--Pendulum System



CD10		I SuB10-7	15:00-15:15
SuB10	三楼第三教室 13:30-15:30		porithm with Backend Pose Graph Optimization for O
Advances in Control I	Design and Analysis of Underactuated Robotic Systems	Wenlong Ji Xu Guo	Nanjing Institute of Technolo Nanjing Institute of Technolo
		Angi Xu	Nanjing Institute of Technolo
		Siguan Li	Nanjing Institute of Engineeri
nair: Xin Xin	Southeast University	Yanling Shang	Anyang Normal University
-Chair: Xhonɑcai Z	Zhang Qufu Normal University	Fangzheng Gao	Nanjing Institute of Technolo
Guangtao F			Nanjing institute of recimoto
JB10-1	13:30-13:45	SuB10-8	15:15-15:30 tion control of underactuated bridge crane system w
	of underactuated cart-pendulum system using fixed-time hierarchical sliding mode method	Weicheng Lan	Linyi University
yao Yu	Linyi University	Ancai Zhang	Linyi University
uli Gong	Linyi University	Junyao Yu	Linyi University
	Linyi University	Guochen Pang	Linyi University
ncai Zhang		Jianlong Qiu	Linyi University
uan Yuan	Linyi University		, , , , , , , , , , , , , , , , , , ,
ui Xincheng	Company of Wuhan Zhixia Intelligent Technology	CuP11	四楼茶茶厅,养
5uB10-2	13:45-14:00	SuB11	四楼茉莉厅+書
	n Underactuated Suspended Backpack via BLF-Based Backstepping and a Disturbance Observer	Development on Indu	strial Artificial Intelligence and Int
ianyuan Yuan	Huazhong University of Science and Technology		
u Cao	Huazhong University of Science and Technology		
fei Guo	Huazhong University of Science and Technology	Chair: Da-Wei Zhang	Southern University of Science
n Huang	Huazhong University of Science and Technology	Co-Chair: Xiubo Wang	
iB10-3	14:00-14:15	Hao Yu	Beijing Institute of Technolog
	ntrol of Autonomous Vehicle Platoons Based on Disturbance Observer and Modified Multi-Power Reaching Law	SuB11-1	13:30-13:45
ngxin Sun	Qufu Normal University		M-Att Framework for Dynamic Prediction of Thickne
i Xu	Qufu Normal University	Yaning Xiao	Southern University of Science
iua Wang	Qufu Normal University	Guoping Liu	Southern University of Science
-		 SuB11-2	13:45-14:00
uB10-4	14:15-14:30	0274 Fault Diagnosis of Motors v	ia Multivariable Time Sequenc Features Fusion of Ele
	lerant Control and Synchronous Disturbance Suppression For Multi-Agent Systems with Switching Topologies	Xingguan Tan	Southern University of Science
ngxin Ren	Linyi University	Guoping Liu	Southern University of Science
iochen Pang	Linyi University		
angyong Chen	Linyi University	I SuB11-3	14:00-14:15
aojian Mu	Linyi University	0291 KC-BiGRUAtt: A Clustering-I	Enhanced Deep Framework for Machinery Remainin
anlong Qiu	Linyi University	Xiangxian Wang	Southern University of Scienc
de Cao	Southeast University	Guoping Liu	Southern University of Science
uB10-5	14:30-14:45	I SuB11-4	14:15-14:30
9 Tracking Control for n-Link	k Flexible-Joint Robots with Output Constraints and Disturbances: An FAS Approach		ale Feature Fusion with Adaptive Positional Encodir
an Jiang	Qufu Normal University	Yiping Gan	Southern University of Science
ongcai Zhang	Qufu Normal University	Guoping Liu	Southern University of Science
ng Gao	Southeast University		
qiang Wu	Qufu Normal University	SuB11-5	14:30-14:45 n of An Interactive Monitoring System with Cloud-Ed
		Bowei Zhang	Southern University of Science
uB10-6	14:45-15:00	Guoping Liu	Southern University of Science
8 Robot Path Optimization B	Based on Improved Ant Colony Optimization	Kunjie Li	none
i Guo	Nanjing Institute of Technology		
iqi Xu	Nanjing Institute of Technology	I SuB11-6	14:45-15:00
nlong Ji	Nanjing Institute of Technology		lization Method for Transformer Partial Discharge Ba
juan Li	Nanjing Institute of Engineering	Yunlong Du	North China Electric Power U
nling Shang	Anyang Normal University	Xiuyu Duan	North China Electric Power U
gzheng Gao	Nanjing Institute of Technology	Dai Jiahui	North China Electric Power U
		Xingkai Yu	North China Electric Power Ur



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+ 蔷薇厅 d Intelligent Manufacturing 13:30-15:30

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hickness Deviation in Cold-Rolled Aluminum Plates cience and Technology cience and Technology

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			I SuB12-7	15:00-15:15
SuB11-7	15:00-15:15			Method of Legged Control Strategy for Space Cl
	alization and Circumnavigation for Nonholonomic Vehicles Without Position Information		Zhexuan Chen	Shanghai Aerospace Control 1
Yao Zou	University of Science and Technology Beijing		Senchun Yao	Shanghai Aerospace Control 1
	, , , , , ,		Xuanhui Xu	Shanghai Aerospace Control 1
I SuB11-8	15:15-15:30		Yuchao Yan	Shanghai Aerospace Control 1
	le Attitude Control for Rigid Spacecraft with Arbitrary Convergence Time		Xinpeng Di	Shanghai Aerospace Control T
Yu-Tian Xu	Harbin Institute of Technology (Shenzhen) Harbin Institute of Technology (Shenzhen)			
Ai-Guo Wu	Harbin institute of rechnology (Shenzhen)		I SuB12-8	15:15-15:30
			0559 Multi-Constraint Trajectory Tracl	king Control for Spacecraft Based on an Integrate
SuB12	四楼荷花厅	13:30-15:30	Tan Longyu	Shanghai Aerospace Control 1
New Developments in Ro	bustness and Control of Unmanned Autonomous Systems		Yizhen Meng	Shanghai Institute of Aerospa
	sustriess and control of onmanica Autonomous Systems		Jing Huang	Shanghai Aerospace Control 1
			Liu Jingxi	Shanghai Aerospace Control T
Chair: Jian Hou	Zhejiang Sci-Tech University			
Co-Chair:Lili Wang	Lili Wang Zhejiang University			
Yunkai Lv	East China University of Science and Technology		SuB13	四楼友谊厅
			Robotic Actuation, Sensir	ig, Control and Human-Robot In
SuB12-1	13:30-13:45			
0324 Energy-efficient Path Planning	of Data Collection in Multi-UAV-assisted WSN			
Jing GUO	Foshan University		Chair: Yang Yang	Nanjing University of Informat
Binting Wei	Foshan University		Co-Chair: Dapeng Chen	School of Automation
Feihang QIU	Foshan University		Yanning Guo	Harbin Institute ofTechnology
Xu ZHANG	Southern University of Science and Technology			
SuB12-2	13:45-14:00		I SuB13-1	13:30-13:45
	sus Control for Heterogeneous Multi-Agent Systems with Linear and Fully Actuated Nonlir	a a r Madal	0158 Application of Fully-Actuated Sy	stem Approach in Flexible-Joint Robot Systems a
ZhiYu Wang	Southern University of Science and Technology	iear Model	Chengyuan Yan	Liaocheng University
Zhiyun Lin	Southern University of Science and Technology		Guoliang Chen	Beijing Institute of Technology
Zinyan Ein	Southern oniversity of Science and reenhology		Mengkai Zhu	Liaocheng University
SuB12-3	14:00-14:15		Mingyin Tang	Liaocheng University
0581 An Efficient Algebraic Model Pre	dictive Control (AMPC) for Unmanned Surface Vessels Path Following		Tianjiao Liu	Liaocheng University
Wei Li	Hangzhou City University			
Bai Jie	Zhejiang University of Technology		I SuB13-2	13:45-14:00
Han Zhou	Zhejiang University of Technology		0105 Malicious Covariance Regulation	n with Deception Attacks in Remote State Estimat
Zhiyun Lin	Southern University of Science and Technology		Jing Zhou	University of Alberta
			Lu Liu	City University of Hong Kong
SuB12-4	14:15-14:30			
0755 An Intelligent Cable Arrangeme	nt Detection Algorithm via Improved CNN Architecture and Edge Rectification Technology	/	I SuB13-3	14:00-14:15
Mengdie Zhang	Hangzhou Applied Acoustics Research Institute		0183 Distributed Drive Electric Vehicle	s Lateral Stability Strategy
Yanjun Lin	China State Shipbuilding Corporation		Yuexi Liu	Southeast University
Junlei Wang	Hangzhou Applied Acoustics Research Institute		Che Su	Southeast University
LinJie Ruan	Zhejiang Sci-Tech University			
1.0.000			Ding Yueheng Xu Dezhi	Southeast University
SuB12-5	14:30-14:45			Southeast University
	n of space target based on lightweight-HRNet		Hua Wei	Southeast University
Jinzhen Mu	Shanghai Aerospace Control Technology Institute		Wenfei Yu	Southeast University
SuB12-6	14:45-15:00			
0543 Research on Control of Magneti XiaoGuang Huangshanghaihangtian	c Suspension Rotor System under Moving Base Based on Disturbance Observer kongzhijishuyanjiusuo			
Chen Xi	Shanghai Aerospace Control Engineering Research Instit	ute		
Qichao Lv	Shanghai Institute of Spaceflight Control Technology			
Dong Yuan Lv	Shanghai Aerospace Control Technology Institute			



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I SuB13-4	14:15-14:30		
0841 A Flexible Job Shop Scheo	duling Method via a Hybrid Dual Attention Network and Mamba Approach	张贴报告 Poste	r Session 1:
Chenmeng Li	Henan University of Science and Technology		
Xuhui Zhao	Henan University of Science and Technology		
Jiamei Feng	Henan University of Science and Technology		
Meiyi Yang	Henan University of Science and Technology		ntrol Approach for a Class of Uncertain Fully Actuated S
Xinlu Wang	Henan University of Science and Technology	Wushan Jia	Harbin Institute of Technology
Huimin Gao	Henan University of Science and Technology	Xiaochen Xie	Harbin Institute of Technology
Mingchuan Zhang	Henan University of Science and Technology	Huijun Gao	Harbin Institute of Technology
			proach to Multi-QUAV Formation Control
I SuB13-5	14:30-14:45	Fangyu Cai	Anhui Polytechnic University
0834 Prediction of unmanned s	system pose based on VMD-WHHO-BLS	Yiqing Huang	Anhui Polytechnic University
Zijian Xue	Nanjing University of Information Science and Technology	Heming Huang	Anhui Polytechnic University
Quanbo Ge	Tongji University	0193 Distributed Secondary Fre	equency Control of Islanded Microgrid Considering Powe
		Jie Zhu	Nanjing University of Science a
SuB13-6	14:45-15:00	Yuping Zhang	Nanjing University of Science a
0699 Adaptive Target Threat As	ssessment Algorithm Based on BLS and Variational Bayesian	Yunyun Xie	Nanjing University of Science a
Tao Lv	Nanjing University of Information Science and Technology	Sheng Cai	Nanjing University of Science
Yuhang Chen	Nanjing University of Information Science and Technology	Jiahua Liu	Nanjing NARI Information and
Quanbo Ge	Tongji University	Huizhong Shi	Nanjing NARl Information and
I SuB13-7	15:00-15:15	0136 Further results on the fully	/ actuated system approach to control of overhead cra
		Fuxing Yao	Southern University of Science
	Water Quality Monitoring System with Dynamic Adaptation	Zhijie Liu	Southern University of Science
Shifan Song	Nanjing University of Information Science and Technology	Liangming Chen	Southern University of Science
Lin Ding	Shanghai Jiao Tong University	Tianqi Yue	Southern University of Science
Quanbo Ge	Tongji University	He Kong	Southern University of Science
I SuB13-8	15:15-15:30		Control of Robotic Manipulator: A Fully Actuated Syste
0602 Transformation of Multi-In	nput Linear Time-Varying Systems into High-Order Fully Actuated Systems	Ji-Hao Zhang	China University of Geoscience
Jiacheng Dong	Harbin Institute of Technology	Qian Chen	China University of Geoscience
Bin Zhou	Harbin Institute of Technology	Yi-Fan Li	China University of Geoscience
Ruiqing Zhang	Harbin Institute of Technology	Ming-Feng Ge	China University of Geoscience
	harbin instate of recliniology	Zhi-Wei Liu	Huazhong University of Scienc
			nsus Algorithm for Unmanned Vehicles Based on the Fu
		Bingxin Qiu	China University of Geoscience
		Yi-Fan Li	China University of Geoscience
		Zhi-Wei Liu	Huazhong University of Scienc
		Ming-Feng Ge	China University of Geoscience
			ulators with Unknown Disturbances: A Novel Fully Actu
		Jiawei Gao	China University of Geoscience
		Yi-Fan Li	China University of Geoscience
		Qian Chen	China University of Geoscience
		Ming-Feng Ge	China University of Geoscience
		Zhi-Wei Liu	Huazhong University of Scienc

0611 An FASA-Based Predefined-Time Tracking Control for Marine Surface Vehicles			
nina University of Geosciences			
hina University of Geosciences			
hina University of Geosciences			
hina University of Geosciences			
hina University of Geosciences			

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	or Networked Marine Surface Vehicles based on Fully Actuated System Approach	0437 Research on Train Localiza	tion Method Enhanced by LiDAR and Visual Geometr
Yi-Fan Li	China University of Geosciences	Licong Fu	Nanjing University of Science
Zhi-Wei Liu Ming-Feng Ge	Huazhong University of Science and Technology China University of Geosciences	Xin Chen	Nanjing University of Science
5 5		0594 A Wheelset Size Measurem	ent System Based on Multi-Line Structured Light
0732 基于有源阻尼的电流源型PWM		Qiuyang Li	Nanjing University of Science
陈思雨	南京理工大学	Yong Zhang	Nanjing University of Science
赵志宏	南京理工大学	Chucheng Shi	Nanjing University of Science
董亮	南京理工大学	Yihang Jian	Nanjing University of Science
徐逸杨	南京理工大学	Hui Wang	Nanjing University of Science
0486 STTransformer: A Physics-Ir	nformed Spatial-Temporal Transformer for Ship Trajectory Prediction	-	
Bingzhuo Liu	Nanjing University of Science and Technology		with Control Constraints Based on MPC and Optimal
Panlong Wu	Nanjing University of Science and Technology	Guosheng Zhao	Shandong University of Scien
Chunhao Liu	Nanjing University of Science and Technology	Chuanzhi Lv	Shandong University of Scien
Shan He	Nanjing University of Science and Technology	Hongxia Wang	Shandong University of Scien
	nal-order port-Hamiltonian systems in the Loewner framework		ered Impulsive Control for a class of Graph-Interconn
Zixi Guan	Southeast University	Xiaojuan Xue	Taiyuan University of Technol
Rui Chen	Southeast University	Zhengtao Ding	University of Manchester
Jinhua Zhang Yiheng Wei	Southeast University Southeast University	Dan Zhang	Yanshan University
-		0622 Numerical computation fo	r Nabla fractional order systems via time-frequency
Shoufeng Wang	Prediction Approach for Gliding Targets Leveraging Pose Estimation Jiangsu Automation Research Institute	Jinhua Zhang	Southeast University
Panlong Wu	Nanjing University of Science and Technology	Zixi Guan	Southeast University
Yue Zhao	Jiangsu Automation Research Institute	Rui Chen	Southeast University
Baobao Wang	Jiangsu Automation Research Institute	Yiheng Wei	Southeast University
0369 Exponential State Estimatio	on of Delayed Fuzzy Quaternion-Valued Inertial Neural Networks	0673 Sliding Mode Control of Th	ree-Phase Voltage Inverter Based on Improved Gene
Xufeng Gao	Shandong University of Science and Technology	Xinyu Liu	Qufu Normal University
Ziye Zhang	Shandong University of Science and Technology	Jianchao Zhao	Qufu Normal University
0274 High Porformance Motion (Control for Omnidirectional Assistive Wheelchairs Using Robust Fractional-Order Non-Singular Fast Terminal Sliding	ChengYong Ren	Qufu Normal University
Mode Control to Enhance Riding		YingXue Lai	Qufu Normal University
Amar Mubarak	Nanjing University of Science and Technology	Yunlong Liu	Qufu Normal University
Yang Tian	Nanjing University of Science and Technology		(
Haoping Wang	Nanjing University of Science and Technology	0810 Research on Multi-Constrai	nt Cooperative Guidance Law Based on Sliding Mod
Modawy Abdalla	Nyala University	Zhaoyuan Chen	Science and Technology on C
-			Agent Cooperation Laborator
	rbance rejection control for Buck converter Shandong University of Science and Technology	Mingrui Hao	Harbin Institute of Technolog
Jinfeng Zou Junjie Han	Shandong University of Science and Technology	Keyuan Yue	Beijing Institute of Mechanica
Youyi Wang	Nanyang Technological University	0814 Model Free Extended State	Observer Based Sliding Mode Prescribed Time Contr
Huanshui Zhang	Shandong University/ Shandong University of Science and Technology	Huilin Dai	Nanjing University of Science
0384 Buck Converter Control bas	ed on Optimal Control Algorithm Model Predictive Control	Haoping Wang	Nanjing University of Science
Junjie Han	Shandong University of Science and Technology	Yang Tian	Nanjing University of Science
Jinfeng Zou	Shandong University of Science and Technology	Liuchang Zhang	Nanjing University of Science
Youyi Wang	Nanyang Technological University		
Huanshui Zhang	Shandong University/ Shandong University of Science and Technology	0161 Attack-Resilient Control of	False Data Injection Attacks Based on Virtual Layer N
-		Qiuzhen Jiang	Nanjing University of Science
Zhijia Zhu	control for strict-feedback MIMO nonlinear systems Anhui University	Xiaoyu Wu	Nanjing University of Science
Suyin Liao	Anhui University	0196 Distributed Secondary Volt	age Control Considering Reactive Power Constraints
Fujin Jia	Anhui University	Dandan Zhu	State Grid Jiangsu Electric Pol
			State Grid Jiangsu Electric Pol
-	ip Filtering Approach for Localization of Automatic Guided Vehicles with Control Input Constraint	Qian Zhou Xian Xu	
Zhengzhao Wang	Harbin University of Science and Technology	Xian Xu	State Grid Jiangsu Electric Pov
Ning Yang	Harbin University of Science and Technology	Yongyong Jia	State Grid Jiangsu Electric Pov
Yuhang Song	Harbin University of Science and Technology	0255 Multi-Agents Formation Ob	ostacle Avoidance Control Based on Improved Artifici
Tianhao Lv	Harbin University of Science and Technology	Jian Wang	Hohai University
		Jun Zhou	Hohai University
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0289 Adaptive Full Actuation (Control for Autonomous Vehicle Platoons	0033 Fully-actuated System App	oaches based Fault-tolerant Attitude Control via Inte
Tianqun Ren	Southwest Jiaotong University	Shiyu Han	Harbin Institute of Technology
Fei Yan	Southwest Jiaotong University	Guangren Duan	Harbin Institute of Technology
Guoxiang Gu	Louisiana State University	0177 The Strategy of Master Con	roller Automatically Downloading three Slave Contro
_		Yang Gao	Ningbo Geely Royal Engine Co
	nchronization of Multi-layer Neural Networks in the Presence of Denial-of-Service Attacks	Zhengxing Dai	Zhejiang Geely Powertrain Re
Taifeng Zhan	Nanjing University of Science and Technology	Ruiyue Zeng	Ningbo Geely Royal Engine Co
Kun Ma	Liaocheng University	Huanhuan Gong	Ningbo Geely Royal Engine Co
Yijun Zhang	Nanjing University of Science and Technology	Ribiao Liu	Ningbo Geely Royal Engine Co
0540 SNR Adaptive Meighted	Metropolis Consensus Filtering Algorithm for Distributed Target Tracking	Ruiguang Wang	Zhejiang Geely Powertrain Re
Lingqi Kong	Nanjing University of Science and Technology	Jiangfeng Liu	Ningbo Geely Royal Engine Co
Panlong Wu	Nanjing University of Science and Technology	Yiqiang Liu	Agricultural University of Heb
-	Nanjing University of Science and Technology		
Xingxiu Li			Ide Control for Hypersonic Vehicles Based on Fast Ter
Shan He	Nanjing University of Science and Technology	Cheng Li	Nanjing University of Science
Xiaolong Cui	Nanjing University of Science and Technology	Chuan Zhou	Nanjing University of Science Nanjing University of Science
0586 Sample-data output con	isensus for heterogeneous linear multi-agent systems with time-varying communication delays	Jian Guo Yifei Wu	Nanjing University of Science
Haopeng Guo	Southern University of Science and Technology	Zhiqiang Jia	Beijing Aerospace Automatic
Tao Wu	Southern University of Science and Technology		beijing Acrospace Automatic
Xiang Xu	Southern University of Science and Technology	0258 Fault-Tolerant Formation C	ontrol for Stochastic Multi-agent Systems With Noise
· · · · · · · · · · · · · · · · · · ·		Anning Liu	Nanjing Tech University
	ontrol for Nonlinear Multi-Agent Cooperative Pursuit-Evasion Games Using Single-Network ADP	Jiantao Shi	Nanjing Tech University
Zhongyu Zhang	Nanjing University of Science and Technology		
Guoqing Qi	Nanjing University of Science and Technology	0302 Fault-Tolerant Strategy for 彭向前	Excitation Windings in Hybrid Axial Field Flux-Switchi 南京理工大学自动化学院
Yinya Li	Nanjing University of Science and Technology	金 四 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一 一	南京理工大学自动化学院
Andong Sheng	Nanjing University of Science and Technology	梁振长	南京理工大学自动化学院
0601 A Study of Multi HAV Co	an exative Durquit Daged on DeintAlet MATDO	未派以	用水堆工八于百如阳于机
Yijing Ding	operative Pursuit Based on PointNet-MATD3 Nanjing University of Science and Technology	0403 Pantograph-Catenary Marg	inal Index Method Using ICEEMDAN-SPWVD for Railw
		Ga Ming	Nanjing University of Science
Guoqing Qi	Nanjing University of Science and Technology	Yingshun Liu	Nanjing University of Science
Yinya Li	Nanjing University of Science and Technology	Zhongxuan Xu	CRRC Qingdao
Andong Sheng	Nanjing University of Science and Technology	JiangLong Chen	Nanjing University of Science
0708 Adaptive Event-Triggere	d Consensus for Unknown Nonlinear Multi-agent Systems with Limited Bandwidth	Huichuan Jiang	Nanjing University of Science
Ying Quan	Nanjing University of Science and Technology	Yunxiao Fu	CRRC Academy
Haoping Wang	Nanjing University of Science and Technology	0440 AHP-entropy Weight Based	Railway Passenger Station Operation Safety Assessn
Yang Tian	Nanjing University of Science and Technology	Peiyu Xu	Nanjing University of Science
		Yikai Wu	Nanjing University of Science
	es in Multi-Pursuit-Multi-Evasion Differential Games with Communication Graphs	Aiguo Lei	Nanjing University of Science
Lin Chen	Nanjing University of Science and Technology		
Guoqing Qi	Nanjing University of Science and Technology	0659 Electrical Performance Ana Chunyu Hou	ysis and System Simulation of Multi-phase Permane
Yinya Li	Nanjing University of Science and Technology	Yang Gao	Nanjing University of Science Nanjing Univercity of Science
Andong Sheng	Nanjing University of Science and Technology	Talig Gao	Nanjing onivercity of Science
0911 Eixed-Time Quadrotors	Formation Control via Dynamic Surface Control with Disturbance Observer and Neural Networks	0716 Research on Switch Machin	e Fault Diagnosis Based on VMD-1DCNN-BiLSTM
Dun Ao	Beijing University of Technology	XinYue Kong	Nanjing University of Science
Xin Zhang	Beijing University of Technology	Xin Chen	School of Automation, Nanjin
Yao Xiao	Beijing University of Technology	0740 Hm fault-tolerant tracking o	ontrol of autonomous underwater vehicles based on
Tau Alau	beijing oniversity of rechnology	Shaoheng Wu	Guangzhou University
0837 Fixed-Time Distributed A	werage-tracking of Second-order Multiagent Systems via Event-triggered Control	Limin Wang	Guangzhou University
Yuanjun Yu	Jiangnan University	Deyu Zeng	Hainan Normal University
Xin Huang	Jiangnan University		
Cheng-Lin Liu	Jiangnan University		r Rectification Strategy Based on Active Disturbance
-		Haoyang Du	Beijing Institute of Technolog
	fuzzy systems by using integral-type event-trigger scheme	0164 Data-driven Einite time Cor	trol for Discrete-time Nolinear Systems
Zichen Guo	Shandong University of Science and Technology	Zhiqing Liu	Qingdao University of Science
Yingjie Fan	Shandong University of Science and Technology	Ronghu Chi	Qingdao University of Science
Zhen Wang	Shandong University of Science and Technology	Yang Liu	Qingdao University of Science



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	with Integrated PV Energy Storage Systems based on Multi-Agent Rollout		g Detection Based on YOLOv10-CSEC
Haoxiang Zou	Nanjing University of Science and Technology	Peng Zhou	Nanjing University of Science a
Min Wang	Nanjing University of Science and Technology	Yunxiao Fu	CRRC Academy
Yong Qiu	Nanjing University of Science and Technology	Zongyi Xing	Nanjing University of Science a
Shu Zheng	Nari group corporation	Sheng Li	Nanjing University of Science a
Qilong Huang	Nanjing University of Science and Technology	Ning Liu	Nanjing University of Science a
Lizi Luo	Nanjing University of Science and Technology	_	
0487 Generating Planar Multi-So	croll Attractors from a 3D Chaotic System via Switching Control	-	I Bi-LSTM method based on multi-scale Spatio-Temporal
Changchun Sun	Shenyang Jianzhu University	Minghao Ma	Nanjing University of Science a
Hao Zhang	Shenyang Jianzhu University	Wang Lingling	Nanjing University of Science a
_		Yanqi Zhao	Nanjing University of Science a
3 1	on of Distributed Radar Multi-Source Data Fusion Software Based on Qt ま主アナーヴ	Lili Wang	Nanjing University of Science a
张 喆	南京理工大学		
李银伢	南京理工大学自动化学院		tegy of PEMFC Hybrid Power Supply System Based on Q-L
戚国庆	南京理工大学自动化学院	徐俊嵩	南京理工大学
0497 Resilience Assessment of I	Multimodal Transportation Networks: A Hypergraph-Based Modeling Framework	戚志东	南京理工大学
Mengmeng Yin	Nanjing University of Science and Technology	周 杰	南京理工大学
Kun Tang	Nanjing University of Science and Technology	沈朝阳	南京理工大学
Jinhong Ding	Nanjing University of Science and Technology	柏理音	南京理工大学
Tangyi Guo	Nanjing University of Science and Technology	曹忠博	南京理工大学
	idal Perception Optimization: Dynamic Spatial Adaptation and Edge-Aware Enhancement for Autonomous Driving Nanjing University of Science and Technology		detection algorithm based on improved YOLOv8n
Jiajun Guo Liang Shan	Nanjing University of Science and Technology	蔡奕暄	南京林业大学
Enhui Ma	Nanjing University of Science and Technology	林嗣茂	南京理工大学
Dongzhe Hu	Nanjing University of Science and Technology	范家瑞	南京理工大学
		02.47 End to and end of family	
Zhidong Qi	Nanjing University of Science and Technology		on-language navigation based on pre-trained model
0717 Dynamic Decoupled Event	-triggered Nonlinear State Estimation for Sensor Networks with Incomplete Measurements	Mingyi Wu	Nanjing University of Science a
Yuan Liang	Nanjing Institute of Technology	Bin Feng	Nanjing University of Science a
Ye Chen	Nanjing Institute of Technology	Weihua Fan	Nanjing University of Science a
Sujuan Chen	Nanjing Institute of Technology	Yifei Feng	Nanjing University of Science a
Chunyan Zhang	Nanjing Institute of Technology		
Yinya Li	Nanjing University of Science and Technology		prithm for Infrared Recognition of Train Running Gear Cor
Guoqing Qi	Nanjing University of Science and Technology	Chucheng Shi	Nanjing University of Science a
		Yong Zhang	Nanjing University of Science a
	nation of Hyper-Redundant Manipulator Based on ESKF Nanjing University of Science and Technology	Qiuyang Li	Nanjing University of Science a
Cheng Zhu		Hui Wang	Nanjing University of Science a
Liaoxue Liu	Nanjing University of Science and Technology Nanjing University of Science and Technology	Yihang Jian	Nanjing University of Science a
Lisong Xu			
Jian Guo	Nanjing University of Science and Technology		cement Learning for Regional Traffic Signal Control: A To
0797 Sequential covariance inte	rsection-based distributed nonlinear state estimation under denial of service	Shan Wang	NanJing University of Science a
Tianhong Huang	Southwest Jiaotong University	Zhuping Zhou	NanJing University of Science a
Yinping Ma	Nanjing University of Science and Technology	Zixu Wang	Nanjing University of Science a
0118 Defective insulator detecti	on algorithm based on improved YOLO v7 lightweight model	0467 Learning Higher-Order M	gration Patterns: A Hypergraph Approach to Urban Mobi
Jinhui Han	Nanjing University of Science and Technology	Jinhong Ding	Nanjing University of Science a
Haifeng Jiang	Nanjing University of Science and Technology	Kun Tang	Nanjing University of Science a
Xiang Zhang	Nanjing University of Science and Technology	Mengmeng Yin	Nanjing University of Science a
Weiwei Lv	Nanjing University of Science and Technology	Tangyi Guo	Nanjing University of Science a
		Tangyi Guo	Manying oniversity of science an
	uantity Detection Algorithm Based on HyperC2Net+MANet Improved YOLO11	0468 Fasteners Object Detectio	n for Low-light Metro Undercarriage Environments
Yaqing Li	Nanjing University of Science and Technology	熊 孜	南京理工大学
Yun Zhu	Nanjing University of Science and Technology	詹鸿运	南京理工大学
Feng Zhou	Xiamen Ocean Vocational College	刘辽雪	南京理工大学
Maochun Wei	Xiamen Ocean Vocational College	郭毓	南京理工大学
Jialuo Chen	Nanjing University of Science and Technology	고난 귀lb	mmark
			w Prediction for Subway Based on Bi-LSTM and Random
		Xinru Liu	Nanjing University of Science a
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	ing method based on Transformer		
Yifei Feng	Nanjing University of Science and Technology	张贴报告 Poster S	Session 2:
Bin Feng	Nanjing University of Science and Technology		
Weihua Fan	Nanjing University of Science and Technology		
Mingyi Wu	Nanjing University of Science and Technology		
0536 Trajectory Prediction Algori	ithm for Multi-agent Systems Based on HOFA-Informed Neural Networks		Learning-based Fault Diagnosis for Urban Rail Sig
Qinlong Du	Harbin Institute of Technology	Xinyi Nian	Nanjing University of Science
Xin Huo	Harbin Institute of Technology	Zhuping Zhou	Nanjing University of Science
Qianning Liu	Harbin Institute of Technology	0765 SDMStega:Robust Steganog	raphy based on Stable Diffusion Model and Spread
Baohan Mi	Harbin Institute of Technology	Longlong Guo	Nanjing University of Science
		Yao-bin Mao	Nanjing University of Science
	t Traffic Sign Detection Framework via GhostNetV3	0777 Risk Prediction of Traffic Acc	dents based on Temporal Knowledge Graphs and
Xiaosong Chu Zhuning Zhou	Nanjing University of Science and Technology	Ruihao Liu	Nanjing University of Science
Zhuping Zhou	NanJing University of Science and Technology	Tangyi Guo	Nanjing University of Science
Wangping Liao	Nanjing University of Science and Technology	Yifan Chen	Nanjing University of Science
Xianshi Pan	Nanjing University of Science and Technology		
0610 Research on Laser Warning	g Angle Prediction Based on Deep Neural Networks		n Rail Transit Based on Deep Learning
ChenLin Niu	North University of China	Shuaibo Yu	Nanjing University of Science
Xiao Li	North University of China	Liu He	Nanjing University of Science
Xinwen Chen	North University of China	Wei Zhou	Nanjing University of Science
Yaqi Wang	North University of China	0032 Active Power Decoupling Co	ntrol Based on Fully-Actuated System Approach Fo
Shuai Yang	North University of China	Yadong Wei	South China University of Teo
Rui Zhang	North University of China	Bo Zhang	South China University of Teo
Zhibin Wang	North University of China	0495 A High-Order Fully Actuated	System Approach to Control of the 2D Cubli
Shun Liu	North University of China	Zongbiao Weng	Southern University of Science
		He Kong	Southern University of Science
	ient for Multilingual Dialogue Generation	-	
Jining Huang	China Mobile Guangdong		ntrol for Roll Reduction of FLNG in Multi-directiona Technology Center for Offsho
Nanchang Lu	China Mobile Guangdong	Yueyi Chen Xiaoling Liang	National University of Singar
Guangming Chen	China Mobile Guangdong	Xiaoling Liang Hongchao Wang	University of Science and Tec
Dayang Liu	China Mobile Guangdong	Xiangbo Liu	Technology Center for Offsho
Baodong Wu	China Mobile Guangdong	Ching Theng Liong	Technology Center for Offsho
Xiaoming Liang	China Mobile Guangdong	Bernard Voon Ee HOW	Singapore Institute of Techno
Zebo Huang	China Mobile GBA (Greater Bay Area) Innovation Institute	Dan Bao	Nanjing University of Science
Xiaoguang Jia	China Mobile Guangdong	Shuzhi Sam Ge	National University of Singap
Zihui Miao	China Mobile GBA (Greater Bay Area) Innovation Institute		
0695 Excitation-Oriented Forget	ting Recursive Least Squares		f High-Order Fully Actuated Systems by Iterative L
Lukai Bin	Harbin Institute of Technology, Shenzhen	Zeyi Zhang	Renmin University of China
Juncheng Xu	Harbin Institute of Technology, Shenzhen	Hao Jiang	Renmin University of China
Jiangang Li	Harbin Institute of Technology, Shenzhen	Dong Shen	Renmin University of China
			Actuated Iterative Learning Control for Unknown
	aph and Large Language Model Synergies for Intelligent Fault Analysis in Urban Rail Transit Signaling Systems	Na Lin	Qingdao University of Scienc
宿天丰	南京理工大学	Ronghu Chi	Qingdao University of Scienc
马辰婧	南京理工大学	0194 Anti-Disturbance Hierarchica	ll Sliding Mode Controller for Deep-Sea Cranes wit
陈新	南京理工大学	Qian Zuo	Hebei University of Technolo
王晓函	南京理工大学	Shujie Wu	Hebei University of Technolo
0715 A Deep Learning Framewo	rk for Rail Station Passenger Flow Prediction with Temporal Knowledge Graph Embedding	Yuzhe Qian	Hebei University of Technolo
Xiaohan Wang	Nanjing University of Science and Technology	0298 Efficient Federal Learning in	USV-AUVs Collaborative Networks
Xin Chen	Nanjing University of Science and Technology	Liang Gan	Nanjing University of Science
Licong Fu	Nanjing University of Science and Technology	Yangi Zhao	Nanjing University of Science
-		Minghao Ma	Nanjing University of Science
		Lili Wang	Nanjing University of Science
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Yan Fei	Southwest Jiaotong University	Liaoxue Liu	Nanjing University of Science a
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Xu Yu	/brid Algorithm for Optimal Jamming Resource Allocation Nanjing University of Science and Technology	Xin Ren	Yanshan University
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	ntrol Strategy for Complex Distribution Networks with Large-scale Wind and Solar Integration	Liaoxue Liu	Nanjing University of Science
Kun Wang	Nanjing University of Science and Technology	Yu Guo	Nanjing University of Science
Cheng Wang	Jiangsu Province Power Transmission and Transformation Co., Ltd		
Hechun Pu	Nanjing University of Science and Technology		exible Joint Space Robot Via Nonlinear Integration
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Hechun Pu	Nanjing University of Science and Technology	Yu Guo	Nanjing University of Science
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Kun Wang	Nanjing University of Science and Technology	Wenqi Yu	Beijing Institute of Technology
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Junfang Zhang	Nanjing University of Science and Technology	Yijin Wang	Beijing Institute of Technology
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Peng Zhang	Nanjing University of Science and Technology	Kaiyang Feng	Yanshan University
0623 Adaptive Clamping Force	Control of Electromechanical Brake System Based on High-Order Fully Actuated System Approaches	Zhaonan Li	Yanshan University
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Jizhe Wang	Yanshan University	Yuchen Wang	Yanshan University
Yuchen Wang	Yanshan University	Kun Ma	Yanshan University
Wenhao Shi	Yanshan University	Yahui Zhang	Yanshan University
Yahui Zhang	Yanshan University	5	
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Yibin Huang	Harbin Institute of Technology (Shenzhen)	Liang Shan	Nanjing University of Science
Wentao Xie	Harbin Institute of Technology (Shenzhen)	Lu Chang	Nanjing University of Science
Jiangang Li	Harbin Institute of Technology (Shenzhen)	Jianhu Yan	Nanjing University of Science
Jiangang Er	harbin institute of reclinitiogy (Shenzhen)	Piaoyang Chen	Nanjing University of Science
	sed on Iteration Learning for Nonlinear Optimal Regulation	Yuewei Dai	Nanjing University of Science
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0041 Design of a New Pump-Su		Piaoyang Chen	Nanjing University of Science a
Yuyang Zhang	Nanjing University of Science and Technology	Liang Shan	Nanjing University of Science a
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Sheng Li	Nanjing University of Science and Technology	Jinlong Zhang	Nanjing University of Science a
0081 Fully Actuated System Ap	proach for Vehicle Lateral Control	Jun Li	Nanjing University of Science a
Ruihe Shi	Harbin Institute of Technology	jun El	
Guangren Duan	Harbin Institute of Technology		



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Xiufeng Chen	Nanjing University of Science and Technology		tion strategy and passenger choice behavior of high-speed rail operators based o
-		Xingzhao Li	Nanjing University of Science and Technology Nanjing University of Science and Technology
	ontrol for Quadrotor-Slung Payload System	Jiaqi Pan	Nanjing University of Science and Technology
EnHui Ma	Nanjing University of Science and Technology	0304 Modeling predictive contro	l for the LCL grid-connected inverter fully- actuated system
Liang Shan	Nanjing University of Science and Technology	Yanyu Zhao	Harbin Institute of Technology
Piaoyang Chen	Nanjing University of Science and Technology	Xuemei Zheng	Harbin Institute of Technology
Jinlong Zhang	Nanjing University of Science and Technology	Xingyu Zhang	Harbin Institute of Techonlogy
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0826 NESO Based Ultra-Local N	Andel Predictive Control for Autonomous Vehicle Path Tracking and Roll Stability	Jinlong Zhang	Nanjing University of Science and Technology
Tianlin Ju	Nanjing University of Science and Technology	Liang Shan	Nanjing University of Science and Technology
Haoping Wang	Nanjing University of Science and Technology	Enhui Ma	Nanjing Univercity of Science and Technology
Yang Tian	Nanjing University of Science and Technology		
Yixin Han	Nanjing University of Science and Technology	Piaoyang Chen	Nanjing Univercity of Science and Technology Nanjing Univercity of Science and Technology
Sofiane Ahmed Ali	Evry Val-d'Essonne University, Universite Paris-Saclay	Weixi Wang	Nalijing Univercity of Science and Technology
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Haoxuan Shi	Nanjing University of Science and Technology	0247 Emergency Return Method	of Lunar Rover Based on Rut Tracking
Yu Xia	Nanjing University of Science and Technology	Bo Zheng	Shanghai Aerospace Control Technology Institute
Songyu Wang		Tao Hu	Shanghai Aerospace Control Technology Institute
Wenhao Zhu	Nanjing University of Science and Technology	Fei Huang	Shanghai Aerospace Control Technology Institute
Yu Guo	Nanjing University of Science and Technology	Zhouyuan Qian	Shanghai Aerospace Control Technology Institute
0847 Fixed-time feedback cont	rol design of input-delay spacecraft rendezvous system based on fully actuated system theory	Hanmo Zhang	Shanghai Aerospace Control Technology Institute
Baowen Zhang	Guangxi Normal University	Tao Cao	Shanghai Aerospace Control Technology Institute
Qianqian Lu	Guangxi Normal University		
Mengjie Chen	Guangxi Normal University		ctiveness of Lunar Rover in Highly Bumpy Environments
		Tao Hu	Shanghai Aerospace Control Technology Institut
	rter Based on Switching Capacitor	Bo Zheng	Shanghai Aerospace Control Technology Institut
Xinyu Zhang	Nanjing University of Science and Technology	Fei Huang	Shanghai Aerospace Control Technology Institut
Guangqiang Lv	Nanjing University of Science and Technology	Zhouyuan Qian	Shanghai Aerospace Control Technology Institut
Qianxi Yang	Nanjing University of Science and Technology	Hanmo Zhang	Shanghai Aerospace Control Technology Institut
0265 QEMU-Based Simulation of	of On-Board GNC System	Тао Сао	Shanghai Aerospace Control Technology Institut
Chen Gong	Shanghai Academy of Spaceflight Technology	Liang He	Shanghai Aerospace Control Technology Institut
Hao Yu	Shanghai Academy of Spaceflight Technology	0412 Satellite Integrated Naviga	tion Algorithm Based On AREKF
0343 电网对称故障下构网型变流	器白话应限流策略	Hao Yu	Shanghai Aerospace Control Technology Institut
董亮	南京理工大学	Cheng Gong	Shanghai Aerospace Control Technology Institut
赵志宏	南京理工大学	Chunyang Liu	Shanghai Aerospace Control Technology Institut
徐逸杨	南京理工大学	Yong Huang	Shanghai Aerospace Control Technology Institut
陈思雨	南京理工大学	Wenjing Zhang	Shanghai Aerospace Control Technology Institut
			Navigation Algorithm Based on BADS under Solar Illumination Constraint
	of Software Reuse Technology in Satellite Control System		Nanjing University of Science and Technology
Gengpai Hua	Shanghai Aerospace Control Technology Institute	Changhao Gao Xingxiu Li	Nanjing University of Science and Technology
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Yong Huang	Shanghai Aerospace Control Technology Institute	Chaojie Zhang	Nanjing University of Science and Technology
0658 Motion Control of Comple	x Gantry Dual-Drive Platform Based on Fully Actuated System Theory	Shan He	Nanjing University of Science and Technology
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Chaochen Gu	Shanghai Jiao Tong University	Ge Lan	Harbin Institute of Technology
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赵志宏	南京理工大学	Guoqing Qi	Nanjing University of Science and Technology
陈思雨	南京理工大学		
董亮	南京理工大学	Yinya Li	Nanjing University of Science and Technology
		Andong Sheng	Nanjing University of Science and Technology



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Congrao Wang	ctory Prediction of Near Space Hypersonic Vehicles Harbin Institute of Technology	Yinjia Jiao	Harbin Institute of Technology
Bowei Yan	Harbin Institute of Technology	Xiaoning She	Harbin Institute of Technology
Xiao Jun Ban	Harbin Institute of Technology	Jianan Qu	Power Grid
-	Harbin Institute of Technology	· · ·	Clean Energy Company
Di Zhou Harbin Institute of Technology		Juxing Tian Vinne Lin	<u> </u>
	se Coefficient Estimation Method Based on Iterative Least Squares	Xinpo Lin	Harbin Institute of Technology
Zhangyi Wu	Nanjing University of Science and Technology	Zhuang Liu	Harbin Institute of Technology
Yuanyuan Sun	Beijing Institute of Electronic Engineering	Jianxing Liu	Harbin Institute of Technology
Bo Zhang	Nanjing University of Science and Technology	0677 Predefined-Time Control for	or Nonplanar Hexarotor UAVs Based on High-Order Ful
Xiang Xu	Nanjing University of Science and Technology	Ruizhi Tong	Harbin Institute of Technology
0000 Variational Davesian Kalm	an Filtering Algorithm for GPS/INS Integrated Navigation System	Runze WANG	Harbin Institute of Technology
Yiren Wang	Nanjing University of Science and Technology	Yankui Shi	Harbin Institute of Technology
Yuanyuan Sun	China Aerospace Science and Industry Corporation Limited	Hongzhen Li	Harbin Institute of Technology
· · · · · · · · · · · · · · · · · · ·	Nanjing University of Science and Technology	Yi Zeng	Harbin Institute of Technology
Zhangyi Wu		0942 Fully Actuated System Apr	proach to Tracking Control of Fixed-Wing Unmanned A
Xiang Xu	Nanjing University of Science and Technology	Hanjun Shang	Harbin Institute of Technology
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武云丽	北京控制工程研究所	Jiahui Wang	Harbin Institute of Technology
		Qimin Hou	Harbin Institute of Technolog
	uency Control for Large-Scale Networked Control Power Systems		Harbin Institute of Technology
Xiaoxiao Guo	Shandong University	Jiyuan Kuang	
Rongni Yang	Shandong University	Zhuang Liu	Harbin Institute of Technolog
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Xiaoyu Yang	Zhejiang University of Technology	Yao Li	Harbin Institute of Technology
Qiang Chen	Zhejiang University of Technology	Jiahui Wang	Harbin Institute of Technology
Shuzong Xie	Zhejiang University of Technology	Yabin Gao	Harbin Institute of Technology
Yaqian Li	Zhejiang University of Technology	Yi Zeng	Harbin Institute of Technology
0040 Dred JDs Euture Event Dree	listics Decod on Event Type Colors Mining by Crank Industion and Deduction	Xiaoning Shen	Harbin Institute of Technology
Shibo Li	liction Based on Event Type Schema Mining by Graph Induction and Deduction Anhui Jianzhu University	Jianxing Liu	Harbin Institute of Technology
	Nanjing University of Information Science & Technology	0043 Model-based dynamic per	iodic event-triggered control for nonlinear networked
Zhenyu Lu Zhongfong Chon		Wangjiang Li	China Three Gorges University
Zhongfeng Chen	Nanjing University of Information Science & Technology	Hao Yu	Beijing Institute of Technology
Huan Rong	Nanjing University of Information Science & Technology	Tiao Tu	beijing institute of recimology
0423 Continuous Safety-Critical	Control of Euler-Lagrange Systems Subject to Multiple Obstacles and Velocity Constraints		ult-Tolerant Control for Bipartite Average Tracking of M
Zhi Liu	Northeastern University	Xiaofeng Zhao	Tongji University
Si Wu	Northeastern University	Yunkai Lv	East China University of Scien
Tengfei Liu	Northeastern University	Zhuping Wang	Tongji University
Zhong-Ping Jiang	New York University	Hao Zhang	Tongji University
0600 Observer Design and Attitu	ide Centrel for Dumbhall, shaned Coassers ft Using a Fully actuated Sustem Approach	0557 Planetary Landing Site Sel	ection Using Multi-Modal Information Fusion
Yuehang Li	ude Control for Dumbbell-shaped Spacecraft Using a Fully-actuated System Approach China Academy of Launch Vehicle Technology	Zhenyu Yang	Harbin Institute of Technology
Feng Zhang	China Academy of Launch Vehicle Technology	Sihan Wang	Shanghai Institute of Satellite
Zhaohui Gao	China Academy of Launch Vehicle Technology	Wuyue Wang	Harbin Institute of Technology
	china Academy of Launch Venicle Technology	Yanning Guo	Harbin Institute of Technology
0631 Adaptive Control of Fully-A	Actuated Cable-Driven Parallel Robots for Mars Rover Landing Simulation	Guangtao Ran	Harbin Institute of Technology
Yanqi Lu	Harbin Institute of Technology	-	
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Weiran Yao	Harbin Institute of Technology	Xiaoxuan Fan	Zhejiang University of Techno
0635 Practical Finite-Time Slidir	ng Mode Control of Stochastic Systems via Output Feedback	Ming Chen	Zhejiang University of Techno
Jiahui Wang	Hebei University of Technology	Xicheng Yang	Zhejiang University of Techno
Qingrun Wang	Hebei University of Technology	Zheming Wang	Zhejiang University of Techno
Junhua Gu	Hebei University of Technology	Ruidong Cheng	Zhejiang Provincial People's H
-			(Affiliated People's Hospital, H
Zhuang Liu	Harbin Institute of Technology	Bo Chen	Zhejiang University of Techno
Xiaoning Shen	Harbin Institute of Technology		
Yabin Gao	Harbin Institute of Technology		



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Kai Li	Nanjing University of Information Science and Technology
Quanbo Ge	Tongji University
Yanjun Huang	Tongji University
0823 Anti-Saturation Quantization	Control for Quadrotor Attitude: Dynamic Surface-Based RBF Adaptive Approach
Yixiao Zhang	East China Jiaotong University
Xuesong Xu	East China Jiaotong University
Yihui Peng	East China Jiaotong University
Quanbo Ge	Tongji University
Yao Yu	University of Science and Technology Beijing
Yanling Zhang	University of Science and Technology Beijing
0850 Biometric-based lightweight \	/2I authentication and key exchange protocol
Hexiang Wang	Henan University of Science and Technology
Moli Zhang	Henan University of Science and Technology
Beibei Han	Henan University of Science and Technology
Muhua Liu	Henan University of Science and Technology
Dongwei Li	Henan University of Science and Technology
0851 Graph-text Adversarial Distilla	ation Model for Document-level Joint Relation Extraction
Wenbo Li	Henan University of Science and Technology
Xiaolong Wang	Henan University of Science and Technology
Weiyu Shen	Henan University of Science and Technology
Jiamei Feng	Henan University of Science and Technology
Meiyi Yang	Henan University of Science and Technology
0503 Practical Prescribed-time Trac	king Control for Underactuated WMR: A Fully Actuated System Approach
Jiaping Qiang	Yanshan University
Li Li	Yanshan University
Yipeng Cao	Yanshan University
Chao Liu	Yanshan University
0678 Distribute Nash equilibrium se	eking for networked agent games with time-varying communication constraints
Fanyong Zeng	Heilongjiang University
Shasha Xiao	Heilongjiang University
Tingting Yu	Heilongjiang University
Xin Wang	Heilongjiang University
	ng Based on Fully Actuated System Theory
Yangqianhui Zhang	Zhejiang University
Kexuan Wang	Dalian University of Technology
Ziyue Wang	Dalian University of Technology
Tianqi Yue	Dalian University of Technology
Dong Han	Zhejiang University
Liang Zhao	Dalian University of Technology
	Strategy for Wind Power Participation in First Primary Frequency Regulation
Considering Source-Load Fluctuatio	
Xiaolian Zhang	School of Electric Power Engineering, Nanjing Institute of Technology
Hao Chen	School of Electric Power Engineering, Nanjing Institute of Technology
Hu Qi	School of Electric Power Engineering, Nanjing Institute of Technology
Chong Feng	School of Electric Power Engineering, Nanjing Institute of Technology
	n of Unknown Systems Under Denial-of-Service, Replay, and Deception Attacks
Xiran Cui	Tongji University
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Yi Dong Tongji University



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