"智能自动化与系统安全"暨 "自主无人系统"国际会议

Joint International Conference on "Automation-Intelligence-Safety (ICAIS)" & "International Symposium on Autonomous Systems (ISAS)"

主办单位：重庆大学
　　　　　中国自动化学会可信控制专业委员会
　　　　　星际（重庆）智能装备技术研究院
　　　　　迪比（重庆）智能科技研究院

中国·重庆
2024年5月7-9日

程序册（FINAL PROGRAM）

"智能自动化与系统安全"暨"自主无人系统"国际会议

Joint International Conference on "Automation-Intelligence-Safety (ICAIS)" & "International Symposium on Autonomous Systems (ISAS)"

中国·重庆
Chongqing, China

2024 年 5 月 7 日至 5 月 9 日
May 7-9, 2024

目录（Contents）

欢迎辞

尊敬的各位来宾，各位专家学者：

　　您好！

　　我们代表全体组委会成员，向远道而来的各位表示最诚挚的欢迎。欢迎您来到被赞誉为山水之城、桥梁之都的美丽重庆，参加这场集"智能自动化与系统安全"与"自主无人系统"于一体的国际盛会。五月的重庆，春光明媚，万物复苏，这座城市以她最美的姿态迎接各位的到来。您的莅临，使得这座城市的学术氛围更加浓厚，使得这座城市的科技之花更加绚烂。

　　本次会议的核心主题是系统层面的"智能"、"自主"与"安全"，这三者之间的关系错综复杂，相互关联，相互影响。大会致力于探讨与系统自动化、系统智能化、系统安全可靠性，以及系统自适应和自主能力相关的理论、技术和解决方案。我们期待通过会议的深入讨论，能够促进相关领域的交叉融合，深化相关理论和技术的发展，推动相关产业的共同进步。

　　自主无人系统，作为本次会议的一大亮点，它是智能自动化和系统安全的具体应用，它是新时代科技发展的重要方向。我们期望通过深入探讨和交流，推动自主无人系统在技术研发、应用实践、产业化进程等方面取得新的突破。

　　衷心希望本次会议能为从事智能自动化与自主无人系统研究的专家学者提供交流与合作平台，为我国经济社会的可持续健康发展注入新的动能。这一路上，有您的陪伴和支持，我们深感欣慰。我们坚信，只有人类的智慧和科技的力量，才能引领我们走向更加美好的未来。

　　"行千里致广大，重庆欢迎您"，我们再次感谢您的光临，感谢您选择与我们一同探索智能自动化的无穷魅力。"吾生也有涯，而知也无涯"。让我们共同努力，携手并进，共同开创智能自动化技术的美好未来！

　　我们期待在这个美丽的季节，与您共享这个科技的盛宴，共同见证这个科技的巅峰。期待在未来的日子里，我们能共同书写新的篇章，共同描绘新的蓝图。

　　在此，我们祝愿大家在会议期间工作顺利，身体健康，万事如意！同时，我们也期待大家在重庆的旅程中，能够感受到这座城市的魅力，感受到这座城市的热情，也能感受到我们对科技的热忱和对未来的期待。

诚挚的祝福，

大会主席: Yongduan Song, Yaochu Jin

日期：2024 年 5 月 8 日

Welcome Address

Dear esteemed guests and scholars,

Greetings!

On behalf of the entire organizing committee, we extend a warm welcome to all of you who have traveled from afar. Welcome to the beautiful city of Chongqing, known as the city of mountains and rivers, and the city of bridges, to participate in this international event that integrates "Intelligent Automation and System Security" and "Autonomous Systems". In May, Chongqing is bathed in the bright spring sunshine, with everything reviving and the city welcoming you with its most beautiful landscape. Your presence further enriches the academic atmosphere of this city and adds a vibrant touch of technology to it.

The core theme of this conference is "Intelligence", "Autonomy", and "Security" at the system level, where these three aspects are intricately intertwined, interconnected, and mutually influential. The conference is devoted to exploring theories, technologies, and solutions related to system automation, system intelligence, system security, and reliability, as well as system adaptability and autonomy. We look forward to fostering cross-fertilization among related fields, deepening the development of relevant theories and technologies, and promoting the common progress of related industries through in-depth discussions at the conference.

Autonomous unmanned systems, a highlight of this conference, represent a specific application of intelligent automation and system security and are a critical direction for technological development in the new era. We hope to promote new breakthroughs in the technological development, practical application, and industrialization of autonomous unmanned systems through in-depth exploration and exchange.

We sincerely hope that this conference can provide a platform for experts and scholars engaged in intelligent automation and autonomous unmanned systems to exchange and cooperate, and inject new momentum into the sustainable and healthy development of our country's economy and society. Along this journey, with your accompaniment and support, we feel greatly comforted. We firmly believe that only human wisdom and the power of technology can lead us to a better future.

"Travel a thousand miles to the vast, Chongqing welcomes you", we thank you once again for your presence, and thank you for choosing to explore the infinite charm of intelligent automation with us. "Life has its limits, but knowledge is limitless". Let's

make concerted efforts, work hand in hand, and jointly create a bright future for intelligent automation technology!

We look forward to sharing this technological feast with you in this beautiful season, and jointly witnessing the pinnacle of technology. We look forward to co-writing a new chapter and co-drawing a new blueprint in the days to come.

Hereby, we wish everyone a smooth workflow during the conference, good health, and all the best! At the same time, we also wish everyone will feel the charm of this city, the warmth of this city, and our passion for technology and expectations for the future during your stay in Chongqing.

Sincere regards,

Conference General Chairs: Yongduan Song, Yaochu Jin

Date: May 8, 2024

会议组织机构（**Conference Organizers and Co-Sponsors**）

主办单位 **(Organizers)**

- Chongqing University

- Chinese Association of Automation Trustworthy Control Committee

- Star Institute of Intelligent Systems

- Dibi (Chongqing) Intelligent Technology Research Institute

技术协办单位 **(Technical Co-Sponsors)**

- Journal of Automation and Intelligence (JAI)

- IEEE Computational Intelligence Society (CIS) (Chongqing Chapter)

- IEEE Industrial Electronics Society (IES)

- Asia-Pacific Artificial Intelligence Association

- Federation of Engineering Institutions of Asia and the Pacific

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Zidong Wang, Brunel University, UK

Kemin Zhou, Shandong University of Science and Technology, China

Dong Yue, Nanjing University of Posts and Telecommunications, China

Donghua Zhou, Shandong University of Science and Technology, China

会场交通（**Traffic & Hotel**）

会议酒店：重庆解放碑帝晶酒店（重庆市渝中区民族路 101 号）

交通方式：参会人员可自行乘坐汽车或者轻轨前往会场，具体信息参见下表。

起点	终点	打车	轻轨	
江北机场	帝晶酒店	用时：30 分钟	用时：60 分钟	10 号线转 2 号线
重庆北站		用时：20 分钟	用时：35 分钟	3 号线转 2 号线
			用时：30 分钟	环线内环转 6 号线
重庆西站		用时：45 分钟	用时：45 分钟	5 号线转 1 号线
沙坪坝火车站		用时：30 分钟	用时：35 分钟	1 号线直达

组委会为参会人员提供两家协议酒店：重庆解放碑帝晶酒店和全季酒店，并享受协议价。参会客人致电酒店预订部或销售部报参加"ISAS2024 会议"订房，优惠价格日期为 2024 年 5 月 6 日至 5 月 10 日，共 4 晚。

帝晶酒店订房协议价格信息：

高级房 480 元/晚（含早餐）

豪华房 580 元/晚（含早餐）

行政房 850 元/晚（含早餐）

酒店预订电话：023-8906 6888；销售部联系人：罗经理 15123327482

全季酒店订房协议价格信息（房源有限）：

商务大床房 389 元/晚（含早餐）

高级双床房 439 元/晚（含早餐）

酒店预订电话：023-88366888；销售部联系人：曾经理 16607268890

会议程序总览（**Program at a Glance**）

5 月 7 日（星期二）/ May 7（Tuesday）	
10:00-22:00	大会注册（重庆解放碑帝晶酒店）
14:30-15:30	Journal of Automation and Intelligence (JAI) 编委会会议（重庆解放碑威斯汀酒店 7 楼董事会厅）
16:00-17:30	自主无人系统安全与控制教育部国际合作联合实验室学术委员会会议（重庆解放碑威斯汀酒店 7 楼董事会厅）
5 月 8 日（星期三）/ May 8（Wednesday）	
开幕式/Opening Ceremony　宴会厅（十一楼）/Dining Hall (Eleventh Floor)	

8:30-8:34	Addressed by: Yongduan Song	Host: Yongduan Song
8:34-8:38	Addressed by: Jian Li	
8:38-8:42	Addressed by: Frank L. Lewis	
8:42-8:46	Addressed by: Tianyou Chai	
8:46-8:50	Addressed by: Yaochu Jin	

大会报告/ Plenary Lectures　宴会厅（十一楼）/Dining Hall (Eleventh Floor)	

8:50-9:50	大会报告/Plenary Lecture: Petros Ioannou　　　（线上/Online） 题目/Title: Vehicle and System Level Control for Safety and Mobility in Intelligent Transportation Systems	Host: Yongduan Song
9:50-10:30	大会报告/Plenary Lecture: Mohammad Shahidehpour　　　（线上/Online） 题目/Title: Artificial Intelligence Applications in Power System Operations	
10:30-10:40	**茶歇/Tea Break**	
10:40-11:20	大会报告/Plenary Lecture: 邬江兴 题目/Title: 人工智能安全问题与内生安全解决之道	Host: Bin Jiang
11:20-12:00	大会报告/Plenary Lecture: 王耀南 题目/Title: 智能自动化前沿技术及发展趋势	Host: Yaochu Jin

12:05-13:30	**自助午餐/Lunch Buffet　西餐厅（九楼）/Western Restaurant (Ninth Floor)**
13:30-17:30	**分会场报告/ Oral Sessions**
18:00-20:30	**晚宴&颁奖　宴会厅（十一楼）/Conference Banquet and Awards Ceremony, Dining Hall (Eleventh Floor)**
5 月 9 日（星期四）/ May 9（Thursday）　　　分会场报告/ Oral Sessions	
8:30-12:00	**分会场报告/ Oral Sessions**
12:00-13:00	**自助午餐/Lunch Buffet　西餐厅（九楼）/Western Restaurant (Ninth Floor)**

大会报告（Plenary Lectures）

Plenary Lecture

Vehicle and System Level Control for Safety and Mobility in Intelligent Transportation Systems

Petros Ioannou

University of Southern California, USA
Host: Yongduan Song, Chongqing University, China

Wednesday, May 8, 8:50-9:30
Room: Dining Hall, 11th Floor (十一楼 宴会厅)

摘要（Abstract）：

Advances in electronics, computers, sensor technologies, software tools and communications are slowly changing the intelligence on vehicles and the way we manage and control traffic for improved mobility and safety. While on the vehicle level safety is the main priority on the traffic level efficiency and mobility is the primary goal. This leads to two levels of control: Vehicle control whose main objective is safety and traffic flow control and management with mobility as the main objective.

In this talk I will address some fundamental issues with vehicle safety, how it improved over the years and what are the main challenges as we move toward fully automated vehicles without on board drivers. I will address how smart vehicles can be connected with the infrastructure by serving as sensors and actuators in assisting the infrastructure in optimizing and managing traffic flows for better mobility and what is the importance of feedback control and optimization for safety and mobility.

I will present examples on vehicle and traffic levels how control and optimization can improve safety and mobility. I will address the importance of connectivity that will facilitate centrally coordinated approaches where system optimality becomes the main objective. Several example applications will be presented.

简历（Biography）：

Petros Ioannou is a Professor in the Department of Electrical and Computer Engineering at the University of Southern California and holds the A.V 'Bal' Balakrishnan Endowed Chair. He also holds a courtesy appointment with the Department of Aerospace and Mechanical Engineering and Department of Industrial Systems Engineering. He is the founder and Director of the Center for Advanced Transportation Technologies and co-founder and Associate Director for Research of the University Transportation Center METRANS at the University of Southern California. Dr. Ioannou was the recipient of the Axelby

Outstanding Paper Award by the IEEE Control System Society in 1984 and the recipient of a 1985 Presidential Young Investigator Award for his research in Adaptive Control. In 2009 he received the IEEE Intelligent Transportation Systems Society (ITSS) Outstanding Application Award and the 2009 IET Heaviside Medal for Achievement in Control. In 2012 he received the IEEE ITSS Research Award and in 2016 the IEEE Transportation Technologies Field Award. He is a member of the National Academy of Engineering, National Academy of Inventors and Foreign Member of the Academia Europaea and the European Academy of Sciences.

Dr. Ioannou is a Life Fellow of IEEE and Fellow of IFAC and AAAS. He is the author/co-author of 9 books and over 400 research papers in the area of controls and applications and intelligent transportation systems.

Petros Ioannou 是南加州大学电气与计算机工程系教授，航空航天与机械工程系和工业系统工程系兼职教授，A.V 'Bal' Balakrishnan 讲座教授。他是先进交通技术中心的创始人和主任，也是南加州大学 METRANS 交通研究中心的联合创始人和研究副主任。Ioannou 博士于 1984 年获得了 IEEE 控制系统学会 Axelby 杰出论文奖，并因自适应控制方面的研究获得了 1985 年总统青年研究员奖。2009 年获得了 IEEE 智能交通系统学会(ITSS)杰出应用奖和 IET Heaviside 成就奖。2012 年获得了 IEEE ITSS 研究奖，并于 2016 年获得了 IEEE 交通技术领域奖。他是美国国家工程院院士、美国国家发明家院士和欧洲科学院院士。

Ioannou 博士是 IEEE 终身会士，也是 IFAC 和 AAAS 会士。到目前为止，共出版 9 本专著，发表 400 余篇关于控制应用以及智能交通领域的研究论文。

Plenary Lecture

Artificial Intelligence Applications in Power System Operations

Mohammad Shahidehpour

Illinois Institute of Technology, USA
Host: Yongduan Song, Chongqing University, China

摘要（Abstract）：

Modern power systems are large, distributed, dynamic, uncertain, and complex machines with a wide range of heterogeneous and spatially-distributed electrical components, e.g., distributed energy resources (DERs), electric vehicles (EVs), intelligent switches, and smart meters. With the fast-growing penetration of distributed devices and technologies in electric power systems, advanced communication, computation, and control infrastructures are progressively utilized by stakeholders for substantiating a more efficient, reliable, resilient, sustainable, economic, and secure management of electricity grid. However, a rigorous modeling of complex power system operations is becoming more challenging as distributed, data-oriented, closely-coupled, and highly uncertain components are blended into power systems. With steady advances in communication and computational technologies, e.g., 5G networks and edge-computing, machine learning techniques will evolve as a viable tool to embrace new opportunities and challenges for power system optimization. Machine learning, which is an extension of artificial intelligence, is portrayed as a data analytic technique in power systems that can train computers to take on complex operation tasks and arrive at credible decisions automatically via a specific learning process. This presentation offers a systematic application of state-of-the-art machine learning techniques in the optimal operation and control of distributed power systems.

简历（Biography）：

Mohammad Shahidehpour is a University Distinguished Professor, Bodine Chair Professor of Electrical and Computer Engineering, and Director of the Robert W. Galvin Center for Electricity Innovation at Illinois Institute of Technology (IIT). He has over 40 years of experience with power system operation, planning, and control and has completed several major projects for the electric energy sector. His project on Perfect Power Systems has converted the entire IIT Campus to an islandable microgrid. Dr. Shahidehpour was the recipient of several technical awards including of the IEEE Burke Hayes Award for his research on

hydrokinetics, IEEE/PES Outstanding Power Engineering Educator Award, IEEE/PES Ramakumar Family Renewable Energy Excellence Award, IEEE/PES Douglas M. Staszesky Distribution Automation Award, and the Edison Electric Institute's Power Engineering Educator Award. He has co-authored 6 books and over 800 technical papers on electric power system operation and planning, and served as the founding Editor-in-Chief of the IEEE Transactions on Smart Grid.

Dr. Shahidehpour is the recipient of the 2009 honorary doctorate from the Polytechnic University of Bucharest. He is a Fellow of CSEE (China), Fellow of IEEE, Fellow of the American Association for the Advancement of Science (AAAS), Fellow of the National Academy of Inventors (NAI), and an elected member of the US National Academy of Engineering (NAE). He is also listed as a highly cited researcher on the Web of Science (ranked in the top 1% by citations demonstrating significant influence among his peers).

Mohammad Shahidehpour 是伊利诺伊理工大学杰出教授、电气与计算机工程学院讲席教授以及 Robert W. Galvin 电力创新中心主任。他在电力系统运行、规划和控制方面拥有超过 40 年的经验，并完成了电能行业的多个重大项目。他领导的"完美电力系统"项目将整个伊利诺伊理工大学校园打造成为可孤岛式微电网。Shahidehpour 博士曾获得多项技术奖项，包括 IEEE Burke Hayes 奖（表彰其在水动力学研究方面的突出贡献）、IEEE/PES 杰出电力工程教育者奖、IEEE/PES Ramakumar 家庭可再生能源卓越奖、IEEE/PES Douglas M. Staszesky 配电自动化奖以及爱迪生电气学会的电力工程教育者奖。他共出版 6 本专著，发表 800 多篇关于电力系统运行和规划的科技论文，曾担任 IEEE Transactions on Smart Grid 创刊主编。

Shahidehpour 博士于 2009 年获得布加勒斯特理工大学荣誉博士学位。他是中国电机工程学会会士、IEEE 会士、美国科学促进会会士、美国国家发明家科学院院士、美国国家工程院院士。此外，Shahidehpour 教授也是 Web of Science 的高被引论文作者。

Plenary Lecture

人工智能安全问题与内生安全解决之道

邬江兴（Jiangxing Wu）

National Digital Switching System Engineering & Technological R&D Center

Institute of Big Data, Fudan University, China

Host: Bin Jiang, Nanjing University of Aeronautics and Astronautics, China

Wednesday, May 8, 10:30-11:10

Room: Dining Hall, 11th Floor (十一楼 宴会厅)

摘要（Abstract）：

　　深度学习为核心的人工智能技术是一把双刃剑，在推动社会进步的同时也引入新的威胁与挑战。人工智能（AI）系统的以存储程序控制为基础的底层构造，不可避免地存在内生安全共性问题。同时 AI 具有"三不可"基因缺陷导致的内生安全个性问题，使得单一 AI 模型的安全性几乎无法保障。为解决 AI 内生安全问题，基于内生安全范式，使用内生安全来增强 AI 应用算法安全性。基于必要多样性与相对正确公理共识机制，在 AI 算法模型引入必要多样性。通过构建 DHR 架构来利用多个异构 AI 模型的相互参照和动态反馈逐渐形成对齐。通过将不确定的安全问题转化为可控的概率问题，从而一体化的解决 AI 应用系统内生安全个性和共性问题。

简历（Biography）：

　　　　　　邬江兴，汉族，1953 年出生于浙江嘉兴，中国工程院院士，通信与信息系统专家，中国网信军民融合联盟理事长，中国国家数字交换系统工程技术研究中心（NDSC）主任，亚太经合组织（APEC）工商咨询理事会（ABAC）副主席，少将军衔，北京大学客座讲席教授。邬江兴院士 1969 年加入中国人民解放军，2007 年至 2014 年担任中国人民解放军信息工程大学校长；2021 年任嵩山实验室主任；2022 年受聘为河南省实施创新驱动、科教兴省、人才强省战略首席科学家，主要研究领域为信息技术与网络安全等；2015 年获何梁何利基金科学与技术成就奖；2017 年获中国首届"全国创新争先奖"。

Plenary Lecture

智能自动化前沿技术及发展趋势

王耀南（**Yaonan Wang**）

Hunan University

National Engineering Laboratory of Robot Visual Perception and Control Technology

Host: Yaochu Jin, Westlake University, China

摘要（Abstract）：

　　自动化技术是当前科学研究的前沿方向，在国民经济和国防安全中起到重要支撑作用。自动化的主要目的是研制系统代替人或辅助人去完成生产生活中的特定任务，减轻人的劳动并提高工作效率。随着以人工智能、机器人为代表的新一代信息技术的快速发展，自动化与智能技术的深度融合，其广泛应用正在深刻改变社会生产和人类生活方式，推动从传统自动化向智能化、网络化、数字化转变，自动化技术也进入了新的"智能时代"。本次报告首先介绍自动化技术的发展历程与技术特点，并概述智能控制、自主智能系统和人工智能驱动的自动化等领域的国内外研究进展，然后介绍智能自动化的关键技术与应用，最后展望智能自动化技术的发展趋势。

简历（Biography）：

　　王耀南，中共党员，中国工程院院士，机器人技术与智能控制专家，湖南大学教授、博士生导师，现任机器人视觉感知与控制技术国家工程实验室主任。王耀南院士是中国自动化学会会士、中国计算机学会会士、中国人工智能学会会士、中国图象图形学学会理事长、全国智能机器人创新联盟副理事长、中国自动化学会常务理事、中国人工智能学会监事、教育部科技委人工智能与区块链技术委员会委员、湖南省自动化学会理事长等。曾任国家 863 计划智能机器人领域主题专家、欧盟第五框架国际合作重大项目首席科学家。长期从事机器人感知与控制技术及工程应用研究和教学科研工作，以第一完成人获国家技术发明二等奖 1 项、国家科技进步二等奖 3 项、省部级一等奖 11 项。发表 IEEE 等 SCI 论文 200 余篇，出版著作 15 部，获国家发明专利 80 余项。入选国家百千万人才工程、德国洪堡学者。培养出博士 70 余名，荣获全国高等学校优秀骨干教师、全国五一劳动奖章、全国先进工作者、全国创新争先奖、湖南省抗击新冠疫情先进个人等荣誉称号。

5 月 8 日（星期三）/ May 8（Wednesday）		**分会场报告/ Oral Sessions**			
	唐 厅/Tang Hall (十楼/ Tenth Floor)	宋 厅/Song Hall (十楼/ Tenth Floor)	元 厅/Yuan Hall (十楼/ Tenth Floor)	明 厅/Ming Hall (十楼/ Tenth Floor)	清 厅/Qing Hall (十楼/ Tenth Floor)
13:30-15:15	Intelligent Systems and Robots: State of the Art and Future Progress	Pre-defined Time Estimation and Control	Estimation, Control and Learning Theory of Multi-agent Systems I	UAV Perception and Control I	Intelligent Control for Complex Systems
	秦 厅/Qin Hall (十楼/ Tenth Floor)	汉 厅/Han Hall (十楼 Tenth Floor)	隋 厅/Sui Hall (十楼/ Tenth Floor)	皇 II/Huang II (十一楼/ Eleventh Floor)	皇 III/Huang III (十一楼/ Eleventh Floor)
	New Developments in Unmanned Autonomous Systems and Its Applications	Autonomous Intelligent Perception and Operational Control of Complex Systems I	Artificial Intelligence and Applications I	Artificial Intelligence-based Perception, Decision and Artificial Intelligence Safety	Medical Autonomous Intelligent Systems and Industry Forum
15:15-15:45	茶歇/Tea Break				
	唐 厅/Tang Hall (十楼/Tenth Floor)	宋 厅/Song Hall (十楼/Tenth Floor)	元 厅/Yuan Hall (十楼/Tenth Floor)	明 厅/Ming Hall (十楼/Tenth Floor)	清 厅/Qing Hall (十楼/Tenth Floor)
15:45-17:30	New Advances in Prescribed-time Control of Nonlinear Systems	Prescribed Performance Control of Nonlinear Systems	Estimation, Control and Learning Theory of Multi-agent Systems II	UAV Perception and Control II	Skill Learning for Robotic Dexterous Manipulation
	秦 厅/Qin Hall (十楼/Tenth Floor)	汉 厅/Han Hall (十楼/Tenth Floor)	隋 厅/Sui Hall (十楼/Tenth Floor)	皇 II/Huang II (十一楼/ Eleventh Floor)	皇 III/Huang III (十一楼/ Eleventh Floor)
	Complex Systems and Complex Networks	Autonomous Intelligent Perception and Operational Control of Complex Systems II	Artificial Intelligence and Applications II	Artificial Intelligence and Applications III	Medical Autonomous Intelligent Systems and Industry Forum

5 月 9 日（星期四）/ May 9（Thursday） 分会场报告/ Oral Sessions				

8:30-10:00	唐 厅/Tang Hall (十楼/Tenth Floor)	宋 厅/Song Hall (十楼/Tenth Floor)	元 厅/Yuan Hall (十楼/Tenth Floor)	明 厅/Ming Hall (十楼/Tenth Floor)	清 厅/Qing Hall (十楼/Tenth Floor)
	Security and Safety in the Coordination of Multi-Agent Systems with Their Application on Industry Systems	Game Theory and Reinforcement Learning for Autonomous Systems	Intelligent Control for Autonomous Robotic Systems	Learning-based Real-time Fault Diagnosis and Safety Control I	Controllability, Stability, and Safety of Uncertain Nonlinear Systems I
	秦 厅/Qin Hall (十楼/Tenth Floor)	汉 厅/Han Hall (十楼/Tenth Floor)	隋 厅/Sui Hall (十楼/Tenth Floor)	皇 II/Huang II (十一楼/Eleventh Floor)	皇 III/Huang III (十一楼/Eleventh Floor)
	Artificial Intelligence and Its Applications	Learning-based Control for Complex Systems	Evolutionary Optimization based on Swarm Intelligence I	Control and Optimization with Machine Learning I	Control and Optimization for Network Systems I

10:00-10:30	茶歇/Tea Break				

10:30-12:00	唐 厅/Tang Hall (十楼/Tenth Floor)	宋 厅/Song Hall (十楼/Tenth Floor)	元 厅/Yuan Hall (十楼/Tenth Floor)	明 厅/Ming Hall (十楼/Tenth Floor)	清 厅/Qing Hall (十楼/Tenth Floor)
		Security Issues in Smart of Things	Industrial Internet of Things (IoT) for Industrial Process Health Prognosis in the Era of Artificial Intelligence	Learning-based Real-time Fault Diagnosis and Safety Control II	Controllability, Stability, and Safety of Uncertain Nonlinear Systems II
	秦 厅/Qin Hall (十楼/Tenth Floor)	汉 厅/Han Hall (十楼/Tenth Floor)	隋 厅/Sui Hall (十楼/Tenth Floor)	皇 II/Huang II (十一楼/Eleventh Floor)	皇 III/Huang III (十一楼/Eleventh Floor)
	Control of Distributed Parameter Systems	Machine Learning for Complex Systems	Evolutionary Optimization based on Swarm Intelligence II	Control and Optimization with Machine Learning II	Control and Optimization for Network Systems II

分会场报告（Oral Sessions）

5 月 8 日（星期三）/ May 8（Wednesday）

唐 厅/Tang Hall	
下午/Afternoon 13:30-15:15	
Wed-Tang.1: Intelligent Systems and Robots: State of the Art and Future Progress **Time: 13:30-15:15** **Chair: Zhuwu Shao (Chongqing University)**	
13:30-13:45	**A Review of Dynamic Obstacle Avoidance for Unmanned Aerial Vehicles (UAVs)** Tianqi Wang, Liying Yang*, Yanchun Chang, Zhaoxiong Huang, Han Jiang Zheng Zheng (Chinese Academy of Sciences)
13:45-14:00	**Beyond Traditional Driving Scenes: A Robotic-Centric Paradigm for 2D+3D Human Tracking Using Siamese Transformer Network** Shuo Xin, Liang Liu (Zhejiang University) Xiao Kang (China North Vehicle Research Institute) Zhen Zhang, Mengmeng Wang (Zhejiang University) Yong Liu* (Institute of Cyber-Systems and Control)
14:00-14:15	**Fusing LiDAR and Radar with Pillars Attention for 3D Object Detection** Hanchen Tai*, Yijie Qian (Zhejiang University) Xiao Kang (China North Vehicle Research Institute) Liang Liu (Zhejiang University) Yong Liu (Institute of Cyber-Systems and Control)
14:15-14:30	**Multi-Node Landing Location Planning based on Genetic Cooperative Particle Swarm Optimization** Xinyu Yao, Qingjie Zhao*, Xingchen Lv (Beijing Institute of Technology)
14:30-14:45	**Fusion Assessment of Safety and Security for Intelligent Industrial Unmanned Systems** Rongyao Cai, Xiao Xu, Zhengming Lu, Kexin Zhang (Zhejiang University) Yong Liu* (Institute of Cyber-Systems and Control) Fang Qiu (Beijing Institute of Control Engineering)
14:45-15:00	**Fully Distributed Active Complementary Fault-tolerant Optimal Control for Nonlinear Multi-agent Systems based on ADP Technique** Yiwen Zong, Ziyi Zhao, Peng Sun (University of Science and Technology Beijing) Pinqing Xiong, Xianggui Guo* (University of Science and Technology Beijing)
15:00-15:15	**A Brief Review on Missing Traffic Data Imputation Methods for Intelligent Transportation Systems** Lei Yang*(Chongqing University of Posts and Telecommunications) Hao Wu (Southwest University)

	唐 厅/Tang Hall
	下午/Afternoon 15:45-17:30

Wed-Tang.2: New Advances in Prescribed-time Control of Nonlinear Systems
Time: 15:45-17:30
Chair: Yujuan Wang (Chongqing University)

15:45-16:00	**Data-Driven Adaptive Dynamic Programming Control for Nonlinear Systems** Xianming Wang* (Nanjing Tech University) Mouquan Shen (Nanjing Tech University) Song Zhu (China University of Mining and Technology)
16:00-16:15	**Novel Passivity Criteria for Discrete-Time Fractional Generalized Delayed Cohen-Grossberg Neural Networks** Chen Wang* (Nanjing Tech University) Mouquan Shen (Nanjing Tech University)
16:15-16:30	**Event-Triggered H∞ Anti-Disturbances Control of Uncertain Networked Control Systems with A Guaranteed Cost Scheme** Tao Huang* (Nanjing Tech University) Mouquan Shen (Nanjing Tech University)
16:30-16:45	**A Multi-grained Cascade Structure for Online Sparse Streaming Feature Selection** Ruiyang Xu (Chongqing University of Posts and Telecommunications) Di Wu* (Southwest University)
16:45-17:00	**Command Filter-based Fault-tolerant Fast Finite-time Control of Manipulator Systems with Sensor Faults and Event-triggered Technology** Xiaoxuan Jiao (Liaoning University of Science and Technology) Ji Zhao (Liaoning University of Science and Technology) Ming Chen* (Liaoning University of Science and Technology) Yue Sun (Liaoning University of Science and Technology)
17:00-17:15	**A Novel Prescribed Finite-Time Attitude Tracking Control of Quadrotor UAVs** Xuejiao Wang (University of Science and Technology Liaoning) Ming Chen* (Liaoning University of Science and Technology) Yulin Gai (University of Science and Technology Liaoning) Yue Sun (University of Science and Technology Liaoning) Huanqing Wang (Bohai University)
17:15-17:30	**Dynamics Modeling of a Fixed-Wing Aircraft Under Icing/Fault based on Physics-informed Neural ODE** Jinyi Ma (Fudan University) Jianliang Ai (Fudan University) Yiqun Dong* (Fudan University)

宋 厅/Song Hall	
下午/Afternoon 13:30-15:15	
Wed-Song.1: Pre-defined Time Estimation and Control **Time: 13:30-15:15** **Chair: Jiancheng Zhang (Jiangnan University)**	
13:30-13:45	**On Prescribed-Time Functional Observer Design** Yang Wu (Wuxi Taihu University) Jiatong He (Jiangnan University) Jiancheng Zhang* (Jiangnan University)
13:45-14:00	**Predefined-Time Containment Tracking of Multi-Agent Systems** Xiaoyuan Zheng* (Hebei University of Technology) Zhongze Peng (Hebei University of Technology)
14:00-14:15	**A Time-Varying Parameter Identification Algorithm based on Prescribed Time Convergence** Shuliu Liu (Jiangnan University) Liuxiao Guo* (Jiangnan University)
14:15-14:30	**Novel Controller Design and Stability Analysis for Nonlinear multi-agent systems with Time-Varying Dynamics** Baotong Jiang (College of Applied Technology, Soochow University) Xiaoping Zhang* (College of Applied Technology, Soochow University) Dongya Li (Applied Technology College of Soochow University) Qingqing Xing (Applied Technology College of Soochow University)
14:30-14:45	**A Feature Fusion Brain Tumor Image Segmentation Method based on U-Net Improvement** Guoliang Wang* (Liaoning Petrochemical University) Ju Li (LiaoNing Petrochemical University)
14:45-15:00	**Prescribed-time Non-overshooting Tracking Control for Permanent Magnet Synchronous Motor** Jiaojiao Li (Qufu Normal University) Zong-Yao Sun* (Qufu Normal University) Qinghua Meng (Hangzhou Dianzi University) Chih-Chiang Chen (National Cheng Kung University)
15:00-15:15	**Holographic Feedback Controlled Micro-Stereolithography for Constructing Microstructures with Tuned Mechanical Property** Xinyi Dong (Beijing Institute of Technology), Yanfeng Zhao (Beijing Institute of Technology), Qiwen Zhang (Beijing Institute of Technology), Letian Sun (Beijing Institute of Technology), Heng Wang (Beijing Institute of Technology), Qing Shi (Beijing Institute of Technology), Qiang Huang (Beijing Institute of Technology), Huaping Wang* (Beijing Institute of Technology)

宋 厅/Song Hall	
下午/Afternoon 15:45-17:30	

15:45-16:00	**Fault-Tolerant Control of Wheeled Mobile Robots with Prescribed Trajectory Tracking Performance** Jinxi Zhang*(Northeastern University) Tianyou Chai (Northeastern University)
16:00-16:15	**Prescribed Performance Tracking Control of One-Link Manipulator with Output Constraints and External Disturbance** Jinzi Yang (Northeastern University) Jinxi Zhang* (Northeastern University)
16:15-16:30	**Low-Complexity Trajectory Tracking Control of Ship Autopilot System with Quantitative Performance Specifications** Haixiu Xie (Northeastern University) Jinxi Zhang* (Northeastern University)
16:30-16:45	**Prescribed Performance Control of Two-Stage Chemical Reactor System with Delayed Recycle Streams** Kaidi Xu (Northeastern University) Jinxi Zhang* (Northeastern University)
16:45-17:00	**Domination Control of Heterogeneous Uncertain Multi-Agent Systems with Sensor Faults under Directed Communication Graphs** Zongcheng Liu* (Air Force Engineering University) Jiangshuai Huang (Chongqing University) Qiuni Li (Air Force Engineering University) Yong Chen (Air Force Engineering University) Chongchong Han (Air Force Engineering University)
17:00-17:15	**Performance-based Fault-tolerant Control for Uncertain Nonlinear Systems with Actuator Failures** Yuqi Liu (Xi'an JiaoTong University) Yu Gao (Shaanxi Railway Institute) Yue Wu (Xinjiang China Tobacco Industry Co., Ltd) Ye Cao* (Xi'an JiaoTong University)
17:15-17:30	**智能技术在飞控领域应用研究综述** 蒋超*（618 研究所）

元 厅/Yuan Hall	
下午/Afternoon　　13:30-15:15	
Wed-Yuan.1: Estimation, Control and Learning Theory of Multi-agent Systems I **Time: 13:30-15:15** **Chair: Dahui Luo (Chongqing University)**	
13:30-13:45	**Event-based Attitude Consensus with Velocity-free Measurements** Xin Jin (East China University of Science and Technology) Yang Tang* (East China University of Science and Technology)
13:45-14:00	**Indefinite Linear Quadratic Optimal Control and Stabilization Problem for Rectangular Descriptor Markov Jump Systems** Yichun Li* (East China University of Science and Technology) Yang Tang (East China University of Science and Technology)
14:00-14:15	**Identifying Leaders in Impulsive Multi-Agent Systems under Switching Topologies** Kaile Chen* (Zhejiang University of Science and Technology)
14:15-14:30	**Event-Triggered Fault Detection for Unmanned Aerial Vehicle in Network Environments** Shanshan Li* (East China University of Science and Technology) Yang Tang (East China University of Science and Technology)
14:30-14:45	**DPCF-Net: Medical Image Segmentation Network Using Dual-Path Cross-Fusion Encoder** Xiaoping Zhou (Anhui University) Dayu Tan* (Anhui University)
14:45-15:00	**Output Regulation for Descriptor Switched Systems via Full Information Feedback Controller** Zhuan Liu (Shandong University of Finance and Economics) Yuchen Sun* (Shandong University)
15:00-15:15	**Distributed Edge-based Event-Triggered Online Optimization Over an Unbalanced Directed Graph** Shuai Mao* (East China University of Science and Technology) Yang Tang (East China University of Science and Technology)

	元 厅/Yuan Hall
	下午/Afternoon　　15:45-17:15
Wed-Yuan.2: Estimation, Control and Learning Theory of Multi-agent Systems II **Time: 15:45-17:15** **Chair: Ci Chen (Guangdong University of Technology)**
15:45-16:00	**Dynamics Modeling and Trajectory Tracking Control for Life Support Robotics based on Sliding-mode Control with Extended State Observer** Hao Yin (Chongqing Technology and Business University) Longfa Zhang (Chongqing Technology and Business University) Wengang Ao* (Chongqing Technology and Business University)
16:00-16:15	**High Performance Control of Dynamical Formation by Estimation of Leader Information** Qiang Zhang (China Automotive Engineering Research Institute) Zhonghai Han (China Automotive Engineering Research Institute Co., Ltd.) Feng Gao* (Chongqing University)
16:15-16:30	**Global Convergence of Similar Formation Control for Cliques via Local Displacement Measurements** Gen He (Chongqing University) Gangshan Jing* (Chongqing University)
16:30-16:45	**Event-Triggered Synchronization Adaptive Learning Control of Nonlinear Multi-Agent Systems with Resilience to Communication Link Faults** Zhiyang Zheng (Guangdong University of Technology) Ci Chen* (Guangdong University of Technology) Kan Xie (Guangdong University of Technology) Shengli Xie (Guangdong University of Technology)
16:45-17:00	**Distributed Self-Triggered Formation Control for A Class of Multi-Robot Systems** Yutong Liu* (Chongqing University)
17:00-17:15	**Cooperative Tracking Control of Cross-Domain Heterogeneous Unmanned Systems via Adaptive Neural Backstepping** Wen Feng (University of Electronic Science and Technology of China) Yong Chen* (University of Electronic Science and Technology of China) Chengwei Pan (University of Electronic Science and Technology of China)

明 厅/Ming Hall	
下午/Afternoon 13:30-15:15	
Wed-Ming.1: UAV Perception and Control I **Time: 13:30-15:15** **Chair: Xinyu Zhang (Xi'an University of Technology)** **Co-Chair: Xianghong Xue (Xi'an University of Technology)**	
13:30-13:45	**Efficient-Learning Grasping and Pushing in Dense Stacking via Mask Function and Pixel Overlap Rate** Jie Lian, Juncheng Jiang, Chaochao Qiu, Qinghui Pan, Yongxiang Dong, Zhao Wang, Dong Wang* (Dalian University of Technology)
13:45-14:00	**An Optimal Flight Control Scheme of Unmanned Helicopter System** Yankai Li* (Xi'an University of Technology) Xiaohui Xue (Xi'an University of Technology) Jinyu Xu (Xi'an University of Technology)
14:00-14:15	**Capacity Degradation Estimation of Lithium Battery based on Intelligent Particle Filter** Xinyu Zhang* (Xi'an University of Technology) Xiaoxi Li (Xi'an University of Technology) Miao Gao (Xi'an University of Technology) Yingmin Yi (Xi'an University of Technology) Ni Zhang (Xi'an University of Technology)
14:15-14:30	**Research on Data Classification based on LNDS-SVDD** Yiwei Yuan* (Xi'an University of Technology) Qiming Xue (Xi'an University of Technology) Yuan Cao (Xi'an University of Technology) Yingmin Yi (Xi'an University of Technology) Lei Bai (Shaanxi Polytechnic Institute)
14:30-14:45	**Connectivity Preservation Control for Multiple UAVs with Communication Failure** Bin Yuan (Xi'an University of Technology) Xianghong Xue* (Xi'an University of Technology) Yumeng Ren (Xi'an University of Technology) Yingmin Yi (Xi'an University of Technology)
14:45-15:00	**Fault-tolerant Cooperative Control of Multiple Quadrotor UAVs Handling a Common Load** Yi Lu (Chongqing University) Zhixi Shen* (Chongqing University) Dang Long (Chongqing University)
15:00-15:15	**UAV Attitude Control based on Fractional-order PID Controller** Yinghuang Liu* (Nanchang Hangkong University) Rui Hou (Nanchang Hangkong University)

	明 厅/Ming Hall
	下午/Afternoon 15:45-17:15
	Wed-Ming.2: UAV Perception and Control II **Time: 15:45-17:15** **Chair: Yankai Li (Xi'an University of Technology)** **Co-Chair: Bojun Liu (Xi'an University of Technology)**
15:45-16:00	**PIE: Low-light Image Enhancement for Dark Tracking of UAV based on Paired Images** Chuang Luo (Nanjing University of Aeronautics and Astronautics) Hongyuan Zheng (Nanjing University of Aeronautics and Astronautics) Xiangping Zhai* (Nanjing University of Aeronautics and Astronautics) Jing Zhu (Nanjing University of Aeronautics and Astronautics)
16:00-16:15	**Design of a Quadrotor UAV Controller based on Body Sensing Control** Limin Zhang* (Zhongyuan University of Technology) Bohao Hu (Zhongyuan University of Technology) Shuai Wang (Zhongyuan University of Technology) Yijie Huang (Beihang Changying Aviation Technology (Taizhou) Company Limited) Xinpeng Zhou (Zhongyuan University of Technology) Ruoyang Liu (Zhongyuan University of Technology)
16:15-16:30	**Research on Autonomous Wave Tracking and Water Landing Control of Water UAV based on Adaptive Dynamic Inverse** Junxian Li (Nanjing University of Aeronautics and Astronautics) Jinhua Zhang (China Special Vehicle Research Institute) Dong Cao* (Nanjing University of Aeronautics and Astronautics) Fanliang Meng (China Special Vehicle Research Institute)
16:30-16:45	**Autonomous Attitude Control and Trajectory Planning For UAV** Yinghuang Liu* (Nanchang Hangkong University) Xizhe Tian (Nanchang Hangkong University)
16:45-17:00	**Adaptive Fuzzy Quantized Path Following Control for The USV-UAV System** Yingshuo Xing (Dalian Maritime University) Guoqing Zhang* (Dalian Maritime University) Xianku Zhang (Dalian Maritime University)
17:00-17:15	**Supervisory Control of Petri Nets with Uncontrollable and Unobservable Transitions Under Replacement Attacks** Zhenhua Yu (Xi'an University of Science and Technology) Yanwei Fang (Xi'an University of Science and Technology) Xuya Cong* (Xi'an University of Science and Technology)

	清 厅/Qing Hall	
	下午/Afternoon　　13:30-15:00	
Wed-Qing.1: Intelligent Control for Complex Systems **Time: 13:30-15:00** **Chair: Yufeng Tian (Chongqing University)**	
13:30-13:45	**A Deep Reinforcement Learning Approach for Intelligent Flight Control** Ruiyuan Zou*(Liaoning Petrochemical University) Haoran Luan (Liaoning Petrochemical University) Jinna Li (Liaoning Petrochemical University)	
13:45-14:00	**Multi-UAV Autonomous Obstacle Avoidance based on APF-DDPG** Weiting Mo*(Liaoning Petrochemical University) Jinna Li (Liaoning Petrochemical University) Haidong Huang (Liaoning Petrochemical University)	
14:00-14:15	**Robust and Accurate Tracking Control for Quadrotor Aggressive Flight** Qijun Zhou (Chongqing University) Tao Jiang*(Chongqing University) Hao Zhang (Chongqing University) Yufeng Tian (Chongqing University)	
14:15-14:30	**Visual Multi-Object Tracking by Interaction Network** Richard Irampaye (Xiangtan University) Junyu Chen (Xiangtan University) Xiaolin Z　hu (Xiangtan University) Yan Zhou* (Xiangtan University)	
14:30-14:45	**A Novel Decoupled Knowledge Distillation** Zhiqiang Wang (Xiangtan University) Yan Zhou* (Xiangtan University)	
14:45-15:00	**Active Vibration Isolation Method for Cold Atomic Gravimeter based on High-Gain Observer Sliding Mode Control** Dongyun Luo* (Jiujiang University)	

	清 厅/Qing Hall
	下午/Afternoon 15:45-17:15

Wed-Qing.2: Skill Learning for Robotic Dexterous Manipulation
Time: 15:45-17:15
Chair: Zhen Kan (University of Science and Technology of China)
Co-Chair: Zhixi Shen (Chongqing University)

15:45-16:00	**Temporal Logic Guided Affordance Learning for Generalizable Dexterous Manipulation** Hao Zhang (University of Science and Technology of China) Hao Wang (University of Science and Technology of China) Yuqian Tang (University of Science and Technology of China) Zhen Kan* (University of Science and Technology of China)
16:00-16:15	**Contact-Aware Non-Prehensile Manipulation for Object Retrieval in Cluttered Environments** Yongpeng Jiang (Tsinghua University) Yongyi Jia (Tsinghua University) Xiang Li* (Tsinghua University)
16:15-16:30	**Mode Switching Optimal Control for Mobile Dual-Manipulator Collaborative Robots based on Dynamic Neural Network** Jie Wang (Hunan University) Yiming Jiang* (Hunan University) Wenjie Tang (Hunan University) Hang Zhong (Hunan University) Hui Zhang (Hunan University)
16:30-16:45	**Task-Oriented Tool Manipulation with Robotic Dexterous Hands: A Knowledge Graph Approach from Fingers to Functionality** Fan Yang * (Hunan University) Wenrui Chen (Hunan University) Haoran Lin (Hunan University)
16:45-17:00	**Learning Language-Conditioned Deformable Object Manipulation with Graph Dynamics** Yuhong Deng (National University of Singapore) Kai Mo (Tsinghua University) Chongkun Xia (Sun Yat-sen University) Xueqian Wang* (Tsinghua University)
17:00-17:15	**Enhancing Robotic Dexterity: A Comprehensive Study on Skill Learning Methods** Qi Wang (Chongqing University) Xiucai Huang* (Chongqing University)

秦 厅/Qin Hall	
下午/Afternoon 13:30-15:15	
Wed-Qin.1: New Developments in Unmanned Autonomous Systems and Its Applications **Time: 13:30-15:15** **Chair: Bin Li (Sichuan University)**	
13:30-13:45	**Statistical Feature Analysis and Preprocessing Assisted Artificial Neural Network for Cleaning Multi-Type Concurrent Anomalies in Time Series Data** Nan An (Southeast University) Youliang Ding (Southeast University) Hanwei Zhao* (Southeast University)
13:45-14:00	**A Novel Automatic Sea Clutter Suppression Method based on Relative Entropy of Radar Plots** Hongxia Li* (Shanghai Guangdian Communication Technology Co., Ltd) Li Wang (Shanghai Guangdian Communication Technology Co., Ltd)
14:00-14:15	**Marine Navigation Radar Target Detection with Multi-scale Spatiotemporal Feature Fusion-based Deep Learning** Yangyang Liu (Shanghai University) Xiao Huang (China Ship Development and Design Center) Hao Tao (China Ship Development and Design Center) Zhiwei Xia (Shanghai University) Xinfeng Xu (Shanghai University) Chun Liu* (Shanghai University)
14:15-14:30	**Multi-vehicle Cooperative Localization and Mapping with the Assistance of Dynamic Beacons in GNSS-denied Environment** Chenyang Zhang* (Beijing Institute of Technology) Chaoyang Jiang (Beijing Institute of Technology) Shuai Liu (Academy of Military Sciences)
14:30-14:45	**Event-triggered Finite-Time Control Scheme for Multi-Agent Systems and Its Application** Ding Zhou (Purple Mountain Laboratories) Lei He (Purple Mountain Laboratories) Zhigang Cao (Purple Mountain Laboratories) Xiaopeng Han* (Purple Mountain Laboratories)
14:45-15:00	**Improved YOLOv8 SAR Image Aircraft Object Detection Method** Yuerui Cai (Dalian University) Youyu Zhao (Liupanshui Normal College) Shixi Wen (Dalian University of Technology) Junjie Feng* (Liupanshui Normal University)
15:00-15:15	**Control Policy Learning Design for Vehicle Urban Positioning Via BeiDou Navigation** Chengye Zhang (Guangdong University of Technology) Ci Chen* (Guangdong University of Technology) Shengli Xie (Guangdong University of Technology)

	秦 厅/Qin Hall
	下午/Afternoon 15:45-17:15

Wed-Qin.2: Complex Systems and Complex Networks
Time: 15:45-17:15
Chair: Pengda Liu (Chongqing Technology and Business University)
Co-Chair: Huiyan Zhang (Chongqing Technology and Business University)

15:45-16:00	**Adaptive Control for Multi-Agent Systems based on Dynamic Event-triggered Mechanism: In Different Topologies** Yu Huang (Chongqing Technology and Business University) Huiyan Zhang* (Chongqing Technology and Business University) Zixian Chen (Chongqing Technology and Business University) Jiangyan Zou (Chongqing Technology and Business University)
16:00-16:15	**Distributed Fault-Tolerant Collision Avoidance Control of Multiple UAVs** Kai Yang (Nanjing Tech University) Moshu Qian* (Nanjing Tech University) Zhifeng Gao (Nanjing University of Posts and Telecommunications) Cuimei Bo (Nanjing University of Technology)
16:15-16:30	**Design and Verification of Tuning Platform for Micro-turbojet Aircraft** Yu Tian (Nankai University) Tianyu Ouyang (Nankai University) Jiachen Zhang (Nankai University) Feng Duan* (Nankai University)
16:30-16:45	**Bearing-only based Circumnavigation for Multi-agent System of Moving-target on Fully-actually System Approach** Yuhan Zhang (University of Electronic Science and Technology of China) Yingjing Shi (University of Electronic Science and Technology of China) Rui Li* (University of Electronic Science and Technology of China)
16:45-17:00	**Investigation of an sEMG Signal-based Method for Online Hand Movement Classification** Yahan Duan (Nankai University) Wenyu Li* (Nankai University) Zhongxin Liu (Nankai University) Ying Du (Nankai University) Yang Yao (Tianjin First Central Hospital) Feng Duan (Nankai University)
17:00-17:15	**Exploring the Correlation between Geometric and Semantic Information for Semantic Segmentation of 3D Point Cloud** Weimin Jiang (Xiangtan University) Yan Zhou* (Xiangtan University)

汉 厅/Han Hall	
下午/Afternoon 13:30-15:15	
Wed-Han.1: Autonomous Intelligent Perception and Operational Control of Complex Systems I Time: 13:30-15:15 Chair: Wei Dai (China University of Mining and Technology) Co-Chair: Yan Qin (Chongqing University)	
13:30-13:45	**Designing an Intelligent Medication Cabinet based on STM32** Haixia Yu* (Dalian University of Technology City College) Yuheng Li (Dalian University of Technology City College) Zhijian Fang (Dalian University of Technology City College) Xin Chen (Dalian University of Technology City College) Jiale Ma (Dalian University of Technology City College)
13:45-14:00	**A Novel Adaptive Path Tracking Control Method for Intelligent Vehicles in Varied Road Circumstances** Jianlong Huang* (Chongqing Technology and Business University) Xudong Wang (Chongqing Technology and Business University) Huiyan Zhang (Chongqing Technology and Business University)
14:00-14:15	**Data-Driven H∞ Output Tracking Control of Linear Discrete-Time Systems** Yao Xu (China University of Mining and Technology) Chunyu Yang* (China University of Mining and Technology) Linna Zhou (China University of Ming and Technology) Lei Ma (China University of Mining and Technology)
14:15-14:30	**Deep Learning-based Clustering Method for Single-Cell RNA Data** Yuxuan Li* (Wuhan University of Technology) Xin Chen (Wuhan University of Technology) Ruishu Zhu (Wuhan University of Technology)
14:30-14:45	**Data-driven Prediction Control for Density Loop of Dense Medium Separation Process based on Event-triggered Mechanism** Qian Tian (China University of Mining and Technology) Qirui Zhang (China University of Mining and Technology) Wei Dai* (China University of Mining and Technology)
14:45-15:00	**An Integrated LFM/LDC/RSU Positioning Method for Autonomous Vehicles** Bin Wang (Jiangsu Hezheng Special Equipment Co., Ltd.) Xiaotian Gao (Jiangsu Hezheng Special Equipment Co., Ltd.) Jiulong Gao (Beijing Institute of Technology) Shuxuan Sheng (Beijing Institute of Technology) Chenyang Zhang (Beijing Institute of Technology) Chaoyang Jiang* (Beijing Institute of Technology)
15:00-15:15	**Research on Communication Security Strategy for Intelligent Connected Vehicles based on HSM** Haijun Wang* (Shandong University of Political Science and Law)

	汉 厅/Han Hall
	下午/Afternoon　　15:45-17:00
	Wed-Han.2: Autonomous Intelligent Perception and Operational Control of Complex Systems II **Time: 15:45-17:00** **Chair: Zhuwu Shao (Chongqing University)**
15:45-16:00	**Modeling and Controller Design of Vertical Take-off and Landing Turbojet Powered Aircraft** Tianyu Ouyang (Nankai University),　Yankai Yin (Nankai University) Fei Kang (Nankai University), Jiachen Zhang (Nankai University) Yu Tian (Nankai University) Xiaoquan Yan (Tianjin Fulibo Intelligent Technology Co., Ltd) Wenchuan Kuang (Tianjin Fulibo Intelligent Technology Co., Ltd) Feng Duan* (Nankai University)
16:00-16:15	**A Torque Ripple Suppression Method of Sensorless Control for Five-phase PMSM based on High-frequency Signal Injection** Bingxue Wang (Liaoning University of Petroleum and Chemical Technology) Guodong Sun* (Shenzhen Polytechnic University) Bingjing Li (China Mining Products Safety Approval and Certification Center)
16:15-16:30	**Vibration Suppression of an Underwater Crane with Bounded Input** Yun Fu* (Nanchang University) Fang Guo (Dongguan University of Technology)
16:30-16:45	**Reduced-Order Filter of Autonomous Vehicle System via Memory-based Dynamic Event-Triggered Mechanism** Xinxin Liu* (Nanjing University of Information Science and Technology) Yaxin Gu (Nanjing University of Information Science and Technology) Xiaojie Su (Chongqing University)
16:45-17:00	**A Novel Fixed-time-based Unmanned Surface Vehicle Autonomous Berthing Sliding Mode Control** Qi Wang (Jiangsu University of Science and Technology) Xiaofei Yang* (Jiangsu University of Science and Technology) Jiabao Hu (Jiangsu University of Science and Technology) Mengmeng Lou (Jiangsu University of Science and Technology) Xu Wang (Jiangsu University of Science and Technology) Zhengrong Xiang (Nanjing University of Science and Technology)

隋 厅/Sui Hall	
下午/Afternoon 13:30-15:15	

13:30-13:45	**Feature Transformation based on Autoencoder to Oversample on Imbalanced Data** Jie Yang (Dalian University of Technology) Tingting Pan* (Dalian Polytechnic University Dalian) Yihao Lu (Tiangong University)
13:45-14:00	**Integrating Criss-Cross Attention Mechanism for Origin Traceability of Peanuts Using Electronic Nose Technology** Yang Yu (Northeast Electric Power University) Qinghua Li (Northeast Electric Power University) Yan Shi* (Northeast Electric Power University)
14:00-14:15	**PCANet：一种用于低光照图像增强的金字塔通道注意力网络** 赵文义 (北京邮电大学) 母征岩 (北京邮电大学) 许亦博 (北京邮电大学) 田勇勤 (河南科技学院) 马占宇 (北京邮电大学) 杨辉华* (桂林电子科技大学)
14:15-14:30	**基于轻量化 YOLOv8 的 PCB 表面缺陷检测算法** 黄俊喆* (北京邮电大学) 赵文义 (北京邮电大学) 李孟恬 (桂林电子科技大学) 田勇勤 (河南科技学院) 胡恩文 (北京邮电大学) 马占宇 (北京邮电大学) 杨辉华 (桂林电子科技大学)
14:30-14:45	**RMPflow-based Cooperative Control for Multi-agent Systems** Yacun Guan* (Hangzhou Dianzi University) Yun Chen (Hangzhou Dianzi University)
14:45-15:00	**Recurrent Neural Cognitive Diagnosis with Semantic Analysis and Self-attention** Xinqi Yang (Shaanxi Normal University) Yifei Sun* (Shaanxi Normal University) Ao Zhang (Shaanxi Normal University) Qiaosen Yan (Shaanxi Normal University) Jihui Yin (Shaanxi Normal University) Yifei Cao (Shaanxi Normal University) Ziang Wang (Shaanxi Normal University) Jie Yang (Shaanxi Normal University) Jiale Ju (Shaanxi Normal University) Wenya Shi (Shaanxi Normal University)
15:00-15:15	**Backdoor Attack based on Privacy Inference against Federated Learning** Duo Wu (Donghua University) Lingguang Hao (Donghua University) Bing Wei* (Donghua University) Kuangrong Hao (Donghua University) Tao Han (China Telecom Research Institute) Langping He (Donghua University)

	隋 厅/Sui Hall
	下午/Afternoon 15:45-17:15

Wed-Sui.2: Artificial Intelligence and Applications II
Time: 15:45-17:15
Chair: Lan Cao (Chongqing University)

15:45-16:00	**Intelligent Prototype Generation Method on Machine Fault Diagnosis Through Compressing Large Dataset** Yixiao Xu (Xi'an Jiaotong University) Xiang Li* (Xi'an Jiaotong University)
16:00-16:15	**Research on Vehicle Detection in Right Turn Blind Zone of Autonomous-rail Rapid Transit based on Fisheye Image** Yongzhao Han* (Southwest Jiaotong University) Zutao Zhang (Southwest Jiaotong University)
16:15-16:30	**GM2RC: Graph-based Multitask Modality Refinement and Complement for Multimodal Sentiment Analysis** Jiandong Shi (Zhejiang Normal University) Yuting Chen (Zhejiang Normal University) Siwei Zhou (Zhejiang Normal University) Ming Li* (Zhejiang Normal University)
16:30-16:45	**Multi-Scale Dense Detector for Prohibited Items Detection in X-Ray Images** Mingyuan Li (Northeastern University) Tong Jia* (Northeastern University) Hui Lu (Northeastern University) Yingbo Li (Northeastern University) Bowen Ma (Northeastern University) Hao Wang (Northeastern University) Dongyue Chen (Northeastern University)
16:45-17:00	**Special-shaped Projection Method based on Fringe Structured Light** Yingbo Li (Northeastern University) Tong Jia* (Northeastern University) Xiao Yang (Northeastern University) Yuankun Peng (Northeastern University) Mingyuan Li (Northeastern University)
17:00-17:15	**Open Set Object Detection in Complex Petrochemical Scenes** Xin Li, Xiaolong Chen*, Chunguang Qu, Bowen Yu, Furui Liu, Xiaodong Hu, Dong Zhu, Fei Lu, Renhe Chen, Gang Yu, Guomei Tang, Peng Zhang (SevnceRobotics Artificial Intelligence Research R&D Center)

皇 II/Huang II	
下午/Afternoon 13:30-15:15	
Wed- Huang II.1: Artificial Intelligence-based Perception, Decision and Artificial Intelligence Safety **Time: 13:30-15:15** **Chair: Yingwei Zhang (Northeastern University)**	
13:30-13:45	**Cross-organizational Full-chain Intelligent Collaborative Service Method in Cloud Manufacturing** Feng Xue (Northeastern University) Hongrui Gao (Northeastern University) Yingwei Zhang* (Northeastern University)
13:45-14:00	**Fault Classification Method based on Self-paced Neighborhood Preserving Embedding** Hongrui Gao (Northeastern University) Chuan Ma (Northeastern University) Yingwei Zhang* (Northeastern University)
14:00-14:15	**Statistical Process Monitoring based on General Semi-Nonnegative Matrix Factorization** Chuan Ma* (Northeastern University) Yingwei Zhang (Northeastern University)
14:15-14:30	**Extended NNs-based Adaptive Event-Triggered Asymptotic Control for Nonlinear Systems Against Actuator Faults** Shanlin Liu* (Northeastern University) Yingwei Zhang (Northeastern University) Xudong Zhao (Dalian University of Technology)
14:30-14:45	**Optimal Guaranteed Cost Hierarchical Sliding Mode Control for Under-Actuated Nonlinear Systems** Haoyan Zhang* (Northeastern University) Yingwei Zhang (Northeastern University) Yuan Ping (Northeastern University)
14:45-15:00	**D2AH-PPO: Playing ViZDoom with Object-Aware Hierarchical Reinforcement Learning** Longyu Niu (Chinese Academy of Sciences) Jun Wan* (Chinese Academy of Sciences)
15:00-15:15	**Robust Active Target Tracking via Constrained Policy Optimization in Partially Observable Environments** Tong Mao (Nanjing University of Aeronautics and Astronautics) Hongyuan Zheng (Nanjing University of Aeronautics and Astronautics) Xiangping Zhai* (Nanjing University of Aeronautics and Astronautics) Jing Zhu (Nanjing University of Aeronautics and Astronautics)

皇 II/Huang II	
下午/Afternoon 15:45-17:30	
Wed- Huang II.2: Artificial Intelligence and Applications III **Time: 15:45-17:30** **Chair: Daxing Xu (Quzhou University)**	
15:45-16:00	**Prediction on the Accumulated Balance of Chinese Provincial Employee Medical Insurance Fund based on GM (1,1) Model** Zhiyang Liu (Shanghai University of Engineering Science) Hongyan Li* (Shanghai University of Engineering Science) Zhihao Chen (Shanghai University of Engineering Science)
16:00-16:15	**Visibility-aware Multi-teacher Knowledge Distillation for Siamese Tracker** Yiding Li* (Kyushu University) Cheng Tang (Kyushu University)
16:15-16:30	**A High-speed and Lightweight Siamese Tracker based on RepVGG Network** Yiding Li* (Kyushu University) Cheng Tang (Kyushu University)
16:30-16:45	**Research on Small Object Detection in Complex Marine Environments** Yihong Zhang (Donghua University) Baolong Ding* (Donghua University) Chen Sun (Donghua University)
16:45-17:00	**Text-Guided Image Generation based on Ternary Attention Mechanism Generative Adversarial Network** Yang Jie (Xi'an University of Technology) Han Liu* (Xi'an University of Technology) Jing Xin (Xi'an University of Technology) Youmin Zhang (Concordia University)
17:00-17:15	**A Federal Recursive RUL Prediction Approach for Inter-Client Information Complementarity for Missing Data** Jiechen Sun (School of Logistic Engineering) Funa Zhou* (School of Logistic Engineering) Zhuo Li (School of Logistic Engineering)
17:15-17:30	**A Semi-Nested Point Cloud Autoencoder for Solder Joint Inspection** Haijian Li (Donghua University) Kuangrong Hao* (Donghua University) Bing Wei (Donghua University) Xuesong Tang (Donghua University)

	皇 III/Huang III

下午/Afternoon　　13:30-17:25

Wed-Huang III.1: Medical Autonomous Intelligent Systems and Industry Forum
Time: 13:30-17:25
Chair: Jinglin Zhang (Shandong University)
Co-Chair: Chaocan Xiang (Chongqing University)

13:30-13:55	**Non-invasive Diagnosis of Heart Disease: Inverse Problems, Optimization and Data Processing** Heye Zhang* (SunYat-sen University)
13:55-14:20	**Autonomous Control and Experimental Study for Robotic Craniotomy** Gui-Bin Bian* (Institute of Automation, Chinese Academy of Sciences)
14:20-14:45	**Neuromodulation Technology and Application based on Functional Magnetic Resonance Imaging Navigation** Tianyi Yan* (Beijing Institute of Technology)
14:45-15:10	**Personalized Brain Disease Assisted Diagnosis and Challenges** Yang Li* (Beihang University)
15:10-15:45	茶 歇/Tea break
15:45-16:10	**Research on Key Techniques of Early Diagnosis and Early Screening of Autism by Integrating Longitudinal Multimodal Brain Image Information** Shijie Zhao* (Northwestern Polytechnical University) Junwei Han (Northwestern Polytechnical University)
16:10-16:35	**Multi Source Information Guided Endoscopic Surgical Localization and Navigation Technology** Weipeng Liu* (Hebei University of Technology)
16:35-17:00	**Intelligent Ultrasound Imaging for Clinical Diagnosis** Guangquan Zhou* (Southeast University) Yang Chen (Southeast University)
17:00-17:25	**Adversarial Attacks on General-Purpose Vision Segmentation Models** Bin Xiao* (Chongqing University of Posts and Telecommunications)

分会场报告（**Oral Sessions**）

5 月 9 日（星期四）/ May 9（Thursday）

	唐 厅/Tang Hall
	上午/Morning　8:30-10:00
	Thur-Tang.1: Security and Safety in the Coordination of Multi-Agent Systems with Their Application on Industry Systems **Time: 8:30-10:00** **Chair: Quanyong Fan (Northwestern Polytechnical University)**
8:30-8:45	**Data-driven Geometric Control Method to the Attitude Control of a Carrier Rocket** Hongru Jiang (Northwestern Polytechnical University) Xiangyun Meng (Northwestern Polytechnical University) Tongna Kang (Northwestern Polytechnical University) Yue Guo (Northwestern Polytechnical University) Chao Deng (Nanyang Technological University) Quan-Yong Fan* (Northwestern Polytechnical University)
8:45-9:00	**Distributed Fault Estimation Intermediate Observer Design for a Class of Stochastic Multi-Agent Systems** Junwei Yan (Heilongjiang University) Xin Wang* (Heilongjiang University) Dong Liu (Shenyang Aerospace University) Xian Zhang (Heilongjiang University)
9:00-9:15	**Perturbation Analysis for Reachability and Controllability of Probabilistic Boolean Control Networks based on the Semi-Tensor Product** Yifei Zhang (Chongqing Normal University) Yifeng Li* (Chongqing Normal University) Xuewen Liu (Chongqing Normal University)
9:15-9:30	**An Active Obstacle Avoidance Strategy for Driverless Vehicles Under Multi-Objective Constraints** Lingcong Yuan* (Chongqing Technology and Business University) Xudong Wang (Chongqing Technology and Business University) Jianlong Huang (Chongqing Technology and Business University)
9:30-9:45	**Secure Remote State Estimation Against Eavesdropping Attacks Under Communication Constraints** Mengling Tao (Chongqing University), Shengdong Hu* (Chongqing University)
9:45-10:00	**Design of Resilient Supervisory Control by Labeled Petri Nets Under External Attacks** Zhenhua Yu (Xi'an University of Science and Technology) Xudong Duan (Xi'an University of Science and Technology) Xuya Cong* (Xi'an University of Science and Technology)

宋 厅/Song Hall	
上午/Morning 8:30-10:00	
Thur-Song.1: Game Theory and Reinforcement Learning for Autonomous Systems **Time: 8:30-10:00** **Chair: Xiuxian Li (Tongji University)**	
8:30-8:45	**DeepSwarm: A Deep Model for Swarm Density Prediction Using Swin Transformer U-Net** Yuchen Ji* (Tongji University) Xiuxian Li (Tongji University) Min Meng (Tongji University)
8:45-9:00	**Deep Reinforcement Learning for Trajectory Design of Multiple UAV-assisted Access Points in the Presence of Mobile Users** Nipun Agarwal* (Birla Institute of Technology and Science Pilani, Rajasthan)
9:00-9:15	**SRD: Balancing Safety and Optimality based on RSS and Reinforcement Learning for Autonomous Driving** Maojia Yao*(Wuhan University of Technology)
9:15-9:30	**Improved Kalman Filtering Algorithm based Multi-Sensor Integration for Silicon Single Crystal Growth Process** Ruidong Xie* (Xi'an University of Technology) Pei Zhu (Xi'an University of Technology) Wenle Ma (Xi'an University of Technology) Zheqi Zhang (Xi'an University of Technology) Yingmin Yi (Xi'an University of Technology) Zheng Guo (Xi'an University of Technology)
9:30-9:45	**A High-Performance Classification Method based on CNN for Interventional EEG Data** Sining Li (Nankai University) Gan Liu (Nankai University) Fan Feng (Tsinghua University) Dongdong Wu (General Hospital of the People's Liberation Army) Yudong Ma (Air Force Specialty Medical Center) Feng Duan* (Nankai University)
9:45-10:00	**Hazardous Gas Monitoring System for Power Cable Tunnel based on PID and MLPNN** Yongjun Sun (State Grid Zhejiang Electric Power Company) Zhihao Wang (State Grid Zhejiang Electric Power Company) Yucheng Wu (Zhejiang University of Technology) Fanghong Guo* (Zhejiang University of Technology)

	宋 厅/Song Hall
	上午/Morning　　10:30-11:45
	Thur-Song.2: Security Issues in Smart of Things **Time: 10:30-11:45** **Chair: Tao He (Chongqing University)**
10:30-10:45	**Robust Adaptive Formation Control Strategy for Underactuated Unmanned Surface Vehicles with Unmeasurable Velocity and Actuator Saturation** Dongdong Mu (Dalian Maritime University) Yao He* (Dalian Maritime University) Tao Wu (Dalian Maritime University) Zhendong Sang (Dalian Maritime University) Yunsheng Fan (Dalian Maritime University)
10:45-11:00	**Control and Tracking Stability of Robotic Arm-Hand Systems** Qian Bai* (Chongqing University) Yongcheng Zhou (Zhuzhou CRRC Times Electric Co., Ltd) Kun Li (Chongqing University)
11:00-11:15	**The Utilization of Virtual Simulation Software and the Introduction of Fault Points in Microcontroller Education** Haixia Yu* (City Institute, Dalian University of Technology) Zhijian Fang (City Institute, Dalian University of Technology) Chongyu Bai (City Institute, Dalian University of Technology) Ruoqi Hu (City Institute, Dalian University of Technology)
11:15-11:30	**ConGCNet: Convex Geometric Constructive Neural Network for Industrial Internet of Things** Jing Nan (China University of Mining and Technology) Wei Dai* (China University of Mining and Technology) Yuen Chau (Nanyang Technological University) Jinliang Ding (Northeastern University)
11:30-11:45	**CSID-GAN: A Customized Style Interior Floor Plan Design Framework based on Generative Adversarial Network** Xiaolong Jia (Chongqing University) Ruiqi Jiang (The University of Hong Kong) Zhou Wu* (Chongqing University)

元 厅/Yuan Hall	
上午/Morning　8:30-10:00	
Thur-Yuan.1: Intelligent Control for Autonomous Robotic Systems **Time: 8:30-10:00** **Chair: Bing Zhou (Chongqing University)**	
8:30-8:45	**Application of Keypoint Recognition for Industrial Human-Robot Safe Collaboration Scenarios** Zhixiang Ma (Nanjing Tech University) Wenhua Jiao* (Nanjing Tech University) Lijuan Li (Nanjing Tech University) Shipin Yang (Nanjing Tech University) Xiaowei Xu (Nanjing Tech University)
8:45-9:00	**Multiscale Complementary Semantic Enhancement Network for Welding Seam X-ray Image Defect Detection** Weipeng Liu (Hebei University of Technology) Yuheng Wang* (Hebei University of Technology) Haiyong Chen (Hebei University of Technology)
9:00-9:15	**Spatiotemporal Representation Learning on Event Stream** Beibei Yang (Dongguan University of Technology) Weiling Li* (Dongguan University of Technology) Guangyu Jiang (Kennesaw State University) Zhigang Liu (Dongguan University of Technology) Yurong Zhong (Dongguan University of Technology) Yan Fang (Kennesaw State University)
9:15-9:30	**Analysis of the Effect of Spatial Shape of Three-Degree-of-Freedom Bionic Pectoral Fins on the Propulsive Performance of a Robotic Fish** Zhongqiang Zhang (Institute of Robotics) Yajiang Du (Lanzhou Jiaotong University) Zonggang Li*(Lanzhou Jiaotong University)
9:30-9:45	**A Path Planning Method for Quadruped Robot based on 3D Elevation Diagram** Zhiyuan Wei (Shandong University) Shenlan Liu (Shandong University) Ran Song* (Shandong University)
9:45-10:00	**Implementation of DWA Optimization Algorithm in Automatic Inspection of Switching Robot** Jin Hua* (Xi'an Technological University) Ling Yang (Xi'an Technological University) Ruixue Tian (Xi'an Technological University)

元 厅/Yuan Hall	
上午/Morning　10:30-11:45	
Thur-Yuan.2: Industrial Internet of Things (IoT) for Industrial Process Health Prognosis in the Era of Artificial Intelligence **Time: 10:30-11:45** **Chair: Chao Li (Zhejiang University)**	
10:30-10:45	**A Life Cycle Management Architecture for Power Equipment based on Device Fingerprinting** Ziqing Lin (China Electric Power Research Institute) Yayun Zhu (China Electric Power Research Institute) Liang Zhou (China Electric Power Research Institute) Baiji Hu (China Electric Power Research Institute) Yuhan Cao* (Beijing University of Posts and Telecommunications)
10:45-11:00	**DevPF: Device Identification Through Passive Fingerprints in IoT** Dahua Zhang (China Electric Power Research Institute) Xiaojuan Zhang (China Electric Power Research Institute) Haixiang Wang (China Electric Power Research Institute) Yiying Yu* (Beijing University of Posts and Telecommunications)
11:00-11:15	**A Robust Predictive Setpoint Regulation Control Approach based on Signal Compensation for Industrial Process** Yuang Liu (Liaoning Petrochemical University) Bo Peng (University of Science and Technology Liaoning) Huiyuan Shi* (Liaoning Petrochemical University) Ping Li (Liaoning Petrochemical University)
11:15-11:30	**Data-driven Robust Predictive Control Method with Unmodeled Dynamic Compensation for Liquid Level Control System** Bo Peng (University of Science and Technology Liaoning) Yuang Liu (Liaoning Petrochemical University) Huiyuan Shi* (Liaoning Petrochemical University) Ping Li (Liaoning Petrochemical University)
11:30-11:45	**A Hierarchical Game under Combat Mechanism** Chen Hao (Shanghai Jiao Tong University) Lin Wang* (Shanghai Jiao Tong University)

明 厅/Ming Hall	
上午/Morning　8:30-10:00	
Thur-Ming.1: Learning-based Real-time Fault Diagnosis and Safety Control I **Time: 8:30-10:00** **Chair: Zeyi Liu (Tsinghua University)**	
8:30-8:45	**Predefined Performance Control for Saturation Nonlinear Systems in Finite-Time** Hanzheng Ju (Henan University of Science and Technology) Fazhan Tao* (Longmen Laboratory) Zhumu Fu (Henan University of Science and Technology)
8:45-9:00	**Intermediate Variable Estimator-based Fault-tolerant Formation Control of Multi-agent Systems with Multiple Leaders** Shuangqing Xing (Nanjing Tech University) Chuang Chen (Nanjing Tech University) Jiantao Shi* (Nanjing Tech University)
9:00-9:15	**Finite-time Fault Estimation based on Unknown Input Observer for Multi-agent Systems** Xiang Chen (Nanjing Tech University) Chuang Chen (Nanjing Tech University) Jiantao Shi* (Nanjing Tech University)
9:15-9:30	**Two-Step Estimation of Errors and Attacks in Smart Grid Subsystems** Lubin Zhang* (Tongji University)
9:30-9:45	**Consensus-based State Estimation over Sensor Networks with Encoding-Decoding Schemes** Chen Gao* (Nanjing University of Science and Technology)
9:45-10:00	**Real-time Safety Assessment of Dynamic Systems: Research Paradigms, Analysis, and Challenges** Zeyi Liu (Tsinghua University) Xiao He* (Tsinghua University)

	明 厅/Ming Hall
	上午/Morning　　10:30-12:00
	Thur-Ming.2: Learning-based Real-time Fault Diagnosis and Safety Control II **Time: 10:30-12:00** **Chair: Lianhua Li (Chongqing University)**
10:30-10:45	**Complete Coverage Path Planning based on BINND and MK-means++** Siyue Liang* (Jiuquan Satellite Launch Centre) Xin Li (Jiuquan Satellite Launch Centre) Ying Zhang (Jiuquan Satellite Launch Centre)
10:45-11:00	**An Adaptive Graph Neural Networks based on Cost-sensitive Learning for Fraud Detection** Qiaosen Yan (Shaanxi Normal University) Yifei Sun* (Shaanxi Normal University) Ao Zhang (Shaanxi Normal University) Xinqi Yang (Shaanxi Normal University) Yifei Cao (Shaanxi Normal University) Ziang Wang (Shaanxi Normal University) Wenya Shi (Shaanxi Normal University) Jiale Ju (Shaanxi Normal University) Jie Yang (Shaanxi Normal University) Jihui Yin (Shaanxi Normal University)
11:00-11:15	**A Hybrid Fault Diagnosis Method based on Transformer and CNN** Zhi Gao (Changchun University of Technology) Meixuan He (Changchun University of Technology) Bangcheng Zhang* (Changchun University of Technology) Yubo Shao (Changchun University of Technology) Jingru Liu (FAW Tooling Die Manufacturing) Shaohua Que (FAW Tooling Die Manufacturing)
11:15-11:30	**Object Counting via Graph Attention Network and Granular-Ball Computing** Fan Chen* (School of Computer Science) Ningzhao Luo (Naval University of Engineering) Xinyu Lin (Chongqing University of Posts and Telecommunications)
11:30-11:45	**GBGS: An Efficient and Adaptive Gradient Search Method** Guan Wang* (Chongqing University of Posts and Telecommunications) Shuyin Xia (Chongqing University of Posts and Telecommunications) Xinyu Lin (Chongqing University of Posts and Telecommunications)
11:45-12:00	**A Novel Approach: Enhancing Data Extraction from Student Handwritten Notes Using Multi-Task U-net and GPT-4** Yunyu Zhou* (Kyushu University)

	清 厅/Qing Hall
	上午/Morning　8:30-10:15
	Thur-Qing.1: Controllability, Stability, and Safety of Uncertain Nonlinear Systems I Time: 8:30-10:15 Co-Chair: Xinjun Wang (Shandong Normal University)
8:30-8:45	基于非负矩阵分解的鲁棒人脸识别方法研究 代祥光* (重庆三峡学院)
8:45-9:00	**Neuroadaptive Tracking Control for Uncertain Stochastic Pure Feedback Systems with Prescribed Performance** Hao Qiu (Chongqing University) Xi Zha (Chongqing Academy of Agricultural Sciences) Xiaohua Jiang (CISDI Information Technology (Chongqing) Co., Ltd.) Xiucai Huang* (Chongqing University)
9:00-9:15	**Prescribed Performance Control for Pure-Feedback Systems with Unknown Control Coefficients** Fan Huang (Chongqing University) Xiucai Huang* (Chongqing University) Bing Zhou (University of Electronic Science and Technology of China) Xi Zha (Chongqing Academy of Agricultural Sciences)
9:15-9:30	**Neuroadaptive Fault-Tolerant Control for Uncertain Nonlinear Systems with New Time-Varying Constraints on States** Shuyan Zhou (China University of Mining and Technology) Junjie Liu (China University of Mining and Technology) Xuesong Wang* (China University of Mining and Technology)
9:30-9:45	**Enhanced Robust Output Tracking of Nonlinear Systems with Dynamic Event Triggered Using Neural Network-based Method** Jiangyan Zou* (Chongqing Technology and Business University) Zixian Chen (Chongqing Technology and Business University) Huiyan Zhang (Chongqing Technology and Business University)
9:45-10:00	**Control Framework for Stability and Comfort in Distributed Drive Electric Vehicles** Borui Zhang* (Tsinghua University) Zhiheng Li (Tsinghua University)
10:00-10:15	**Design and Simulation of a Two-stage Linear Inverted Pendulum Control System based on Fuzzy LQR Control** Siting Peng (Beijing Electro-Mechanical Engineering Institute) Jun Ren* (Beijing Electro-Mechanical Engineering Institute) Lei Li (Beijing Electro-Mechanical Engineering Institute) Yichao Ma (Beijing Electro-Mechanical Engineering Institute) Zhichao Song (Beijing Electro-Mechanical Engineering Institute)

清 厅/Qing Hall	
上午/Morning 　 10:30-11:45	
Thur-Qing.2: Controllability, Stability, and Safety of Uncertain Nonlinear Systems II Time: 10:30-11:45 Chair: Min Wang (University of Electronic Science and Technology of China)	
10:30-10:45	**Parameter Self-Tuning of Vector Control for Permanent Magnet Synchronous Motor based on IGAHF** Xinyu Lyu* (China University of Geosciences) Xinyu Tian (China University of Geosciences)
10:45-11:00	**Adaptive Control for Nonlinear System with Time-Varying Parameters and Unknown Time-varying Control Coefficient** Miaoyun Gong (Chongqing University) Xi Zha (Chongqing Academy of Agricultural Sciences) Xiaohua Jiang (CISDI Information Technology (Chongqing) Co., Ltd.) Xiucai Huang* (Chongqing University)
11:00-11:15	**Efficient Shunted Transformer via DPnP module** Yue Wu (Chongqing University) Zhixi Shen* (Chongqing University) Peng Fu (Chongqing University)
11:15-11:30	**Asymmetric Input Constraint Control of a Vehicle-Manipulator System with Disturbance** Yuanwen Zheng (Dongguan University of Technology) Fang Guo* (Dongguan University of Technology) Yun Fu (Nanchang University) Yi Qin (Dongguan University of Technology) Fujie Wang (Dongguan University of Technology) Zewen Sun (East China University of Science and Technology)
11:30-11:45	**Time-varying Threshold Design for Intermittent Fault Detection of Dynamic Systems with Luenberger Observer** Kaibo Zhao (Beijing Jiaotong University) Shigen Gao* (Beijing Jiaotong University) Wenxiao Si (Beijing Jiaotong University)

秦 厅/Qin Hall	
上午/Morning 8:30-10:00	

Thur-Qin.1: Artificial Intelligence and Its Applications
Time: 8:30-10:00
Chair: Jie Su (Chongqing University)

8:30-8:45	**A Dynamic Exemplars Selection-based Differential Evolution Algorithm for Constrained Multi-objective Optimization** Xuanxuan Ban (Zhengzhou University) Jing Liang* (Zhengzhou University) Kunjie Yu (Zhengzhou University) Kangjia Qiao (Zhengzhou University) Yaonan Wang (Hunan University) Jinzhu Peng (Zhengzhou University)
8:45-9:00	**Tensor Graph Convolutional Network for Dynamic Graph Representation Learning** Ling Wang (Chongqing University of Posts and Telecommunications) Ye Yuan* (Chongqing Institute of Green and Intelligent Technology)
9:00-9:15	**An ADRC-Incorporated Stochastic Gradient Descent Algorithm for Latent Factor Analysis** Jinli Li (China West Normal University) Ye Yuan* (Chongqing Institute of Green and Intelligent Technology)
9:15-9:30	**Self-correcting Collaborative and Contrastive Co-training Model for Semi-Supervised Medical Image Segmentation** Juzheng Miao (Southeast University) Siping Zhou (Southeast University) Guangquan Zhou* (Southeast University)
9:30-9:45	**Efficient GNN Scaling through Supervised Granular-Ball** Xinjun Ma* (Chongqing University of Posts and Telecommunications) Shuyin Xia (Chongqing University of Posts and Telecommunications) Cheng Liu (Chongqing University of Posts and Telecommunications) Zhiyuan Liu (Chongqing University of Posts and Telecommunications)
9:45-10:00	**GBC-An Efficient and Adaptive Granular-Ball Clustering Algorithm for Complex Data** Yifan Wang (Chongqing University of Posts and Telecommunications) Shuyin Xia* (Chongqing University of Posts and Telecommunications)

	秦 厅/Qin Hall
	上午/Morning 10:30-12:00
	Thur-Qin.2: Control of Distributed Parameter Systems **Time: 10:30-12:00** **Chair: Ji Wang (Xiamen University)** **Chair: Huan Yu (Hong Kong University of Science and Technology (Guangzhou))**
10:30-10:45	基于 **RBF** 神经网络的磁悬浮系统 **Backstepping** 控制 苏玲玲* (北方工业大学) 邢丹 (北方工业大学)
10:45-11:00	**Safe Delay-Compensated Control with Nonlinear Actuator Dynamics** Zhenxu Zhao* (Xiamen University) Ji Wang (Xiamen University)
11:00-11:15	**Neural Operators for Robust State Feedback Regulation of Hyperbolic PDEs** Yu Xiao (Central South University) Xiaodong Xu* (Central South University) Yimiao Shi (Central South University)
11:15-11:30	**Mean-square Exponential Stabilization of Mixed-autonomy Traffic PDE System** Yihuai Zhang* (Hong Kong University of Science and Technology (Guangzhou)) Huan Yu (Hong Kong University of Science and Technology (Guangzhou))
11:30-11:45	**Adaptive Event-Triggered Control of a Time-Variant 1-D Linear Hyperbolic PDE** Chunting Ji (Qufu Normal University) Zhengqiang Zhang* (Qufu Normal University)
11:45-12:00	**Event-Triggered Delay-Compensated Boundary Control of Reaction-Diffusion PDEs with Actuator Dynamics** Hongpeng Yuan* (Xiamen University) Ji Wang (Xiamen University)

汉 厅/Han Hall	

上午/Morning 8:30-10:00	

Thur-Han.1: Learning-based Control for Complex Systems

Time: 8:30-10:00

Chair: Huiyuan Shi (Liaoning Petrochemical University)

Time	Session
8:30-8:45	**Learning-based MPC Method for Nonlinear System Control** Jingjie Xie* (The Hong Kong Polytechnic University)
8:45-9:00	**2D Lyapunov-Razumikhin Function-based Robust Iterative Learning Model Predictive Control for Nonlinear Multi-phase Batch Processes with Time Delays** Dounan Meng (Liaoning Petrochemical University) Qiming Ding (Liaoning Petrochemical University) Huiyuan Shi* (Liaoning Petrochemical University)
9:00-9:15	**Time-Delay Dependent and Data-Driven Robust Predictive Control for Air Conditioning System of Electric Vehicles via Signal Compensation** Qiming Ding (Liaoning Petrochemical University) Dounan Meng (Liaoning Petrochemical University) Huiyuan Shi* (Liaoning Petrochemical University)
9:15-9:30	**Sliding Mode Fuzzy Control of Stochastic Nonlinear Systems Under Cyber-Attacks** Yue Yang* (Xi'an University of Architecture and Technology) Baoyu Wen (Chongqing University) Xiaojie Su (Chongqing University) Jiangshuai Huang (Chongqing University) Liu Biao (Chongqing University)
9:30-9:45	**Event-Triggered Filtering for Fuzzy Dynamic Systems via Reduced-Order Scheme** Yao Wen* (Chongqing University of Posts and Telecommunications)
9:45-10:00	**Omnibot：一个可扩展的基于视觉的机器人集群系统** 梁甲琛（西湖大学） 马昭（西湖大学） 王泓毅（西湖大学） 赵世钰*（西湖大学）

汉 厅/Han Hall	
上午/Morning 10:30-11:45	
Thur-Han.2: Machine Learning for Complex Systems **Time: 10:30-11:45** **Chair: Zeqiang Li (Chongqing University)**	
10:30-10:45	**Decomposition of Multi-Frequency Signals in Electric Vehicles** Yufeng Xu (Zhejiang Huibo Power Equipment Manufacturing Co., Ltd) Jian Xu (Zhejiang Huibo Power Equipment Manufacturing Co., Ltd) Xiaogang Huang* (Quzhou University)
10:45-11:00	**Application of Detection and Estimation Method for Multi-Area** **Interconnected Power Systems under Various Disturbances** Zhou Zheng* (North China Electric Power University)
11:00-11:15	**A Novel Driver Fatigue and Distraction Detection Method based on Improved** **Swin Transformer** Chenjia Song (Beijing Jiaotong University) Qi Song* (Beijing University of Posts and Telecommunications)
11:15-11:30	**A Novel Neural Network-based Collision Estimator for Real-Time Path** **Planning of Robotic Arms** Changqing Huang* (Hunan University) Hui Zhang (Hunan University) Yiming Jiang (Hunan University) Chen Bo (Hunan University) Songtao Yin (Changsha University of Science and Technology) Weili Chen (Changsha University of Science and Technology)
11:30-11:45	**Iterative Learning Output Feedback Control for Delayed Parabolic PDE** **Systems with Random Packet Losses** Wenqi Yang (University of Jinan) Zipeng Wang* (Beijing University of Technology) Shuhui Bi (University of Jinan)

隋 厅/Sui Hall	

上午/Morning 8:30-10:00	

Thur-Sui.1: Evolutionary Optimization based on Swarm Intelligence I
Time: 8:30-10:00
Chair: Kunjie Yu (Zhengzhou University)

8:30-8:45	**Adapting eXplainable Decision Sets to Continuous-based Real-World Problems** Yi Liu (Zhejiang Lab) Bi Ying* (Zhengzhou University) Yu Cui (Zhejiang Lab) Chengyuan Zhu (Hainan Normal University) Wen Cheng (Zhejiang Lab) Mingkai Sheng (Hangzhou Institute for Advanced Study, UCAS) Yiding Zhang (Victoria University of Wellington)
8:45-9:00	**Insertion-based Rapid Evaluation Methods for Flow Shop Group Scheduling Problems** Yuhang Wang (Liaocheng University) Yuyan Han* (Liaocheng University) Yuting Wang (Liaocheng University)
9:00-9:15	**Partial Discharge Pattern Recognition via Improved Evolutionary Convolutional Neural Network** Chuanzong Zhao* (State Grid Liaoning Electric Power Supply Co. Ltd.) Chengye Yuan (State Grid Liaoning Electric Power Supply Co. Ltd.) Tianhe Liu (State Grid Liaoning Electric Power Supply Co. Ltd.) Xiang Zhao (State Grid Liaoning Electric Power Supply Co. Ltd) Shen Liu (State Grid Liaoning Electric Power Supply Co. Ltd.) Yuantong Liu (State Grid Liaoning Electric Power Supply Co. Ltd.) Xiaolin Wu (State Grid Liaoning Electric Power Supply Co. Ltd.) Yu Zhao (State Grid Liaoning Electric Power Supply Co. Ltd.)
9:15-9:30	**A Genetic Programming Approach with Adaptive Region Detection to Skin Cancer Image Classification** Kunjie Yu (Zhengzhou University) Jintao Lian (Zhengzhou University) Bi Ying* (Zhengzhou University) Jing Liang (Zhengzhou University) Bing Xue (Victoria University of Wellington) Mengjie Zhang (Victoria University of Wellington)
9:30-9:45	**Multi-UAVs Delivery Task Decision based on Quint-Domain Interactive Multi-Objective Evolutionary Algorithm** Jinglin Wang (Guangzhou University) Chang He (Guangzhou University) Haibin Ouyang* (Guangzhou University)
9:45-10:00	**Multi-Objectives Dynamic Optimization with Deep Reinforcement Learning of Digital Twin for Mixed-flow Production Line** Jinjin Liu* (Hunan University of Technology and Business) Xuesong Xu (Hunan University of Technology and Business)

	隋 厅/Sui Hall
	上午/Morning 10:30-12:00

Thur-Sui.2: Evolutionary Optimization based on Swarm Intelligence II
Time: 10:30-12:00
Chair: Mingyuan Yu (Zhengzhou University)

10:30-10:45	**Multi-Task Constrained Multi-Objective Differential Evolutionary Algorithm based on Task Correlation Detection** Zuo Wei (Shanghai Maritime University) Qingqing Liu (Shanghai Maritime University) Qirong Tang (Tongji University) Qinqin Fan* (East China University of Science and Technology)
10:45-11:00	**Hindsight Experience Replay with Correlation Reward Mechanism** Xiaoliang Li (Drug and Instrument Supervision and Inspection Station) Xianwen Wang (Drug and Instrument Supervision and Inspection Station) Wenli Xie (Tianjin University) Yang Wang (Tianjin University) Jiahe Liu (Tianjin University) Chao Liu* (Dalian University of Technology) Rencheng Zheng (Tianjin University)
11:00-11:15	**A Distributional Mapping Scheme based on An Aerial-Terrestrial Cooperative System** Xin Dong, Jinwu Xiang, Daochun Li, Tu Zhan* (Beihang University)
11:15-11:30	**An Attention Learning Particle Swarm Optimizer with Sensitive Search Transition** Zhangqian Wu* (Jiangnan University) Wei Song (Jiangnan University)
11:30-11:45	**Task Allocation of Multiple AUVs and Simulation in Large Range Underwater Environment** Lingqi Zhang (Harbin Engineering University) Hai Huang* (Harbin Engineering University) Yize Sun (Harbin Engineering University) Lingyu Li (Harbin Engineering University) Yunfei Zhang (Harbin Engineering University)
11:45-12:00	**An Novel Robot Tool Manipulation Method for Battery Degumming Task** Jiangtao Xiao*, Yu Xie (Xiamen University) Renpeng Wang (Xiamen University) Jinhui Zhang (Xiamen University) Wei Zhou (Xiamen University) Yi Zhang (National Engineering Research Center for Petroleum Refining Technology and Catalyst)

	皇 II /Huang II
	上午/ Morning 8:30-9:45

Thur-Huang II.1: Control and Optimization with Machine Learning I
Time: 8:30-9:45
Chair: Lianhua Li (Chongqing University)

8:30-8:45	**Resource Configuration in Naval Wargames with Incomplete Information and Multiple Constraints: A Coupled Confrontation Approach** Dong Li (Beijing Institute of Technology) Hongbin Ma* (Beijing Institute of Technology)
8:45-9:00	**Disturbance Compensation Control for Discrete-time Systems based on Reinforcement Learning and Data-driven** Lanyue Li (Liaoning Petrochemical University) Jinna Li* (Liaoning Petrochemical University)
9:00-9:15	**Reinforcement Learning for Optimal Control of Two-time-scale Systems with Input Constraints** Haoran Luan* (Liaoning Petrochemical University) Ruiyuan Zou (Liaoning Petrochemical University) Jinna Li (Liaoning Petrochemical University)
9:15-9:30	**Online Policy Iteration Algorithms for Linear Continuous-Time H-infinity Regulation with Completely Unknown Dynamics** Yuzhe Chen (Guangdong University of Technology) Ci Chen* (Guangdong University of Technology)
9:30-9:45	**An Integrated Design Framework of Floating Wind Turbine based on Surrogate-Assisted Many-Objective Optimization** Yang Hanshi (Chongqing University) Zhou Wu* (Chongqing University)

皇 II /Huang II	
上午/ Morning 10:30-11:45	
Thur-Huang II.2: Control and Optimization with Machine Learning I **Time: 10:30-11:45** **Chair: Bing Zhou (Chongqing University)**	
10:30-10:45	**Cost-Minimized Partial Computation Offloading in Heterogeneous Edge-Cloud Systems** Ziqi Wang* (Beijing University of Technology) Bi Jing (Beijing University of Technology) Mengchu Zhou (New Jersey Institute of Technology)
10:45-11:00	**Exponential Stabilization of Linear Systems with Feedback Optimization and its Application to Microgrids Control** Xiemin Mo (The University of Hong Kong) Tao Liu* (The University of Hong Kong)
11:00-11:15	**Pareto-based Guaranteed Cost Control of Discrete-time Uncertain Stochastic Systems** Xiushan Liang (China University of Petroleum (East China)) Xiushan Jiang* (China University of Petroleum (East China)) Tianliang Zhang (Qingdao University of Technology)
11:15-11:30	**Optimization of Institutional Incentives for Cooperation in Structured Populations** Shengxian Wang* (Anhui Normal University) Xiaojie Chen (University of Electronic Science and Technology of China)
11:30-11:45	**Cross Stage Partial Modulated Convolution Net for Leather Defect Detection** Feng He (Hangzhou Dianzi University) Yuezhen Xu (Quzhou University) Xiaozhou Liu (Quzhou University) Zhiqiang Chen* (Quzhou University)

	皇 III/Huang III
	上午/Morning 8:30-10:00

Thur-Huang III.1: Control and Optimization for Network Systems I
Time: 8:30-10:00
Chair: Gangshan Jing (Chongqing University)

8:30-8:45	**A Novel Trajectory Tracking of Skid-Steering Mobile Robots via Fractional-Order Integration** Meng Ge (Beijing Jiaotong University) Qi Song* (Beijing University of Posts and Telecommunications)
8:45-9:00	**Online Distributed Optimization with Stochastic Objective Functions: High Probability Bound Analysis of Dynamic Regrets** Hang Xu (Shandong University of Science and Technology) Kaihong Lu* (Shandong University of Science and Technology)
9:00-9:15	**A Human Demonstration based Inverse Dynamics Model for Long-Sequential Dough Shape Manipulation** Dongxu Duan* (Tsinghua University) Houde Liu (Tsinghua University) Chongkun Xia (Sun Yat-sen University) Mingqi Shao (Tsinghua University) Yu Liang (Tsinghua University) Xueqian Wang (Tsinghua University)
9:15-9:30	**Adaptive Event-Triggered Localization Algorithm based on Cubature Kalman Filter** Joel Villier Minane Amuri (Anhui University of Science and Technology) Hongbo Zhu* (Anhui University of Science and Technology) Jiabao Ding (Anhui University of Science and Technology)
9:30-9:45	**Trajectory Design in Boost Phase of Air-Launched Rocket based on the Effective Specific Impulse** Haoliang Wang* (China Academy of Launch Vehicle Technology) Mengying Ma (China Academy of Launch Vehicle Technology)
9:45-10:00	**Event-triggered Optimal Tracking Control for Nonlinear Stochastic Systems via Adaptive Dynamic Programming** Huichao Wang (Chongqing Technology and Business University) Pengda Liu* (Chongqing Technology and Business University) Yu Huang (Chongqing Technology and Business University) Zhiyun Gao (Civil Aviation University of China)

皇 III/Huang III	

上午/Morning 10:30-11:45	

Thur-Huang III.2: Control and Optimization for Network Systems II
Time: 10:30-11:45
Chair: Jie Su (Chongqing University)

Time	Content
10:30-10:45	**Sampling-based Distributed Control for Quantized Consensus Tracking Under Denial-of-Service Attacks** Xinhe Wang* (Southeast University) Linan Wang (Southeast University) Shuai Wang (Beihang University)
10:45-11:00	**Privacy-Preserving Distributed Economic Dispatch for Microgrids based on State Decomposition with Added Noises** Lei Sun* (University of Shanghai for Science and Technology) Derui Ding (Swinburne University of Technology) Yamei Ju (University of Shanghai for Science and Technology)
11:00-11:15	**Modeling and Trajectory Planning for Triple Pendulum Cranes with Distributed Mass Payload** Qingxiang Wu (Nankai University) Ning Sun* (Nankai University) Tong Yang (Nankai University)
11:15-11:30	**Stochastic Stabilization of Markovian Jump Systems by a Networked Controllers Optimizing Mode Separations** Guoliang Wang* (Liaoning Petrochemical University) Siyong Song (Liaoning Petrochemical University)
11:30-11:45	**Data-Driven Soft Sensor Modeling Method for Grinding Particle Size Using IRVFLN with Compact Constraints** Yong Li* (China Energy Trading Group) Lingzi Xu (China Energy Trading Group) Jinming Li (China Energy Trading Group) Ruoxiao Li (Shenhua Hong Kong International Trading Company) Wei Dai (China University of Mining and Technology)

论文作者索引（Author Index）

Su, Lingling	Thu-Qin, 10:30-10:45	Yang, Lei	Wed-Tang, 15:00-15:15
		Yang, Liying	Wed-Tang, 13:30-13:45
T		Yuan, Yiwei	Wed-Ming, 14:15-14:30
Tai, Hanchen	Wed-Tang, 14:00-14:15	Yang, Fan	Wed-Qing, 16:30-16:45
Tan, Dayu	Wed-Yuan, 14:30-14:45	Yang, Xiaofei	Wed-Han, 16:45-17:00
Tang, Yang	Wed-Yuan, 13:30-13:45	Yang, Huihua	Wed-Sui, 14:00-14:15
Tao, Fazhan	Thu-Ming, 8:30-8:45	Yan, Tianyi	Wed-Huang III, 14:20-14:45
		Yang, Chunyu	Wed-Han, 14:00-14:15
W		Yang, Yue	Thu-Han, 9:15-9:30
Wang, Chen	Wed-Tang, 16:00-16:15	Ying, Bi	Thu-Sui, 8:30-8:45
Wang, Huaping	Wed-Song, 15:00-15:15		Thu-Sui, 9:15-9:30
Wang, Xianming	Wed-Tang, 15:45-16:00	Yuan, Lingcong	Thu-Tang, 9:15-9:30
Wu, Di	Wed-Tang, 16:30-16:45	Yao, Maojia	Thu-Song, 9:00-9:15
Wang, Dong	Wed-Ming, 13:30-13:45	Yu, Haixia	Wed-Han, 13.30-13.45
Wang, Xueqian	Wed-Qing, 16:45-17:00		Thu-Song, 11:00-11:15
Wang, Haijun	Wed-Han,15:00-15:15	Yu, Yiying	Thu-Yuan, 10:45-11:00
Wei, Bing	Wed-Sui, 15:00-15:15	Yuan, Hongpeng	Thu-Qin, 11:45-12:00
Wan, Jun	Wed-Huang II, 14:45-15:00	Yuan, Ye	Thu-Qin, 8:45-9:15
Wang, Xin	Thu-Tang, 8:45-9:00		
Wang, Lin	Thu-Yuan, 11:30-11:45	**Z**	
Wen, Yao	Thu-Han, 9:30-9:45	Zhang, Jiancheng	Wed-Song, 13:30-13:45
Wang, Zi-Peng,	Thu-Han, 11:30-11:45	Zhang, Jinxi	Wed-Song, 15:45-16:00
Wu, Zhangqian	Thu-Sui, 11:15-11:30		Wed-Song, 16:00-16:15
Wu, Zhou	Thu-Huang II, 9:30-9:45		Wed-Song, 16:15-16:30
	Thu-Song, 11:30-11:45		Wed-Song, 16:30-16:45
Wang, Ziqi	Thu-Huang II, 10:30-10:45	Zhang, Xiaoping	Wed-Song, 14:15-14:30
Wang, Shengxian	Thu-Huang II, 11:15-11:30	Zhao, Yong	Wed-Tang, 14:15-14:30
Wang, Haoliang	Thu-Huang III, 9:30-9:45	Zheng, Xiaoyuan	Wed-Song, 13:45-14:00
Wang, Xinhe	Thu-Huang III, 10:30-10:45	Zhang, Xinyu	Wed-Ming, 14:00-15:15
Wang, Yuheng	Thu-Yuan, 8:45-9:00	Zhang, Limin	Wed-Ming, 16:00-16:15
Wang, Guoliang	Wed-Song, 14:30-14:45	Zhang, Guoqing	Wed-Ming, 16:45-17:00
	Thu-Huang III, 11:15-11:30	Zou, Ruiyuan	Wed-Qing, 13:30-13:45
Wang, Guan	Thu-Ming, 11:30-11:45	Zhou, Yan	Wed-Qing, 14:15-14:30
Wang, Xuesong	Thu-Qing, 9:15-9:30		Wed-Qing, 14:30-14:45
			Wed-Qin, 17:00-17:15
X		Zhao, Hanwei	Wed-Qin, 13:30-13:45
Xue, Xianghong	Wed-Ming, 14:30-14:45	Zhang, Chenyang	Wed-Qin, 14:15-14:30
Xiao, Bing	Wed-Huang III, 17:00-17:25	Zhang, Huiyan	Wed-Qin, 15:45-16:00
Xie, Jingjie	Thu-Han, 8:30-8:45	Zhang, Yingwei	Wed-Huang II, 13:30-13:45
Xiao, Jiangtao	Thu-Sui, 11:45-12:00		Wed-Huang II, 13:45-14:00
Xie, Ruidong	Thu-Song, 9:15-9:30	Zhang, Haoyan	Wed-Huang II, 14:30-14:45
Xia, Shuyin	Thu-Qin, 9:45-10:00	Zhai, Xiangping	Wed-Ming, 15:45-16:00
Xu, Xiaodong	Thu-Qin, 11:00-11:15		Wed-Huang II, 15:00-15:15
		Zhou, Funa	Wed-Huang II, 17:00-17:15
Y			

Zhang, Heye	Wed-Huang III, 13:30-13:55
Zhao, Shijie	Wed-Huang III, 15:45-16:10
Zhou, Guangquan	Wed-Huang III, 16:35-17:00
	Thu-Qin, 9:15-9:30
Zhao, Shiyu	Thu-Han, 9:45-10:00
Zhang, Yihuai	Thu-Qin, 11:15-11:30
Zhang, Zhengqiang	Thu-Qin, 11:30-11:45
Zhao, Zhenxu	Thu-Qin, 10:45-11:00
Zhou, Yunyu	Thu-Ming, 11:45-12:00
Zou, Jiangyan	Thu-Qing, 9:30-9:45
Zheng, Zhou	Thu-Han, 10:45-11:00
Zhao, Chuanzong	Thu-Sui, 9:00-9:15
Zhan, Tu	Thu-Sui, 11:00-11:15
Zhu, Hongbo	Thu-Huang III, 9:15-9:30
Zhang, Bangcheng	Thu-Ming, 11:00-11:15
Zhang, Borui	Thu-Qing, 9:45-10:00
Zhang, Lubin	Thu-Ming, 9:15-9:30