

## 2023 International Annual Conference on Complex Systems and Intelligent Science (CSIS-IAC 2023)



October 20~22, 2023

Shenzhen, China

# **2023 International Annual Conference on Complex Systems and Intelligent Science**



October 20~22, 2023

Shenzhen, China











## **CONTENTS**

About CSIS-IAC 2023	3
Venue	4
Conference Schedule at a Glance	5
CSIS-IAC 2023 Committees	6
Plenary Lectures	13
Technical Program	21
Event Notice (Presentation Instructions)	38
Sponsors	39
CSIS-IAC 2024 Call for Papers	40

## **About CSIS-IAC 2023**

Complex Systems and Intelligent Science research has received considerable attention in recent years. There are many interacting components in complex systems, resulting in some interesting and emerging properties that cannot be well understood from standalong system viewpoints. Complex systems not only occur in physical sciences and engineering, but also encompass in many other fields. It has been noticed that the research methodology for Complex Systems is applicable to Intelligent Science, including data science, machine learning, and artificial intelligence. Big data research is closely associated with complex systems since simple systems will not generate data that can be considered "big". On the other hand, it is the recent trend to employ machine learning and deep learning approaches in the modeling, control and management of complex systems. This conference covers all aspects of Complex Systems and Intelligent Science. It reports cutting edge research in complex systems, complex networks, parallel control, parallel management, social computing, intelligent control, learning control, machine learning, robotic systems, and intelligent medicine. As a highly interdisciplinary field, Complex Systems and Intelligent Science requires collaboration among researchers from various domains, including mathematics, physics, computer science, engineering, social sciences, humanities, and political sciences.

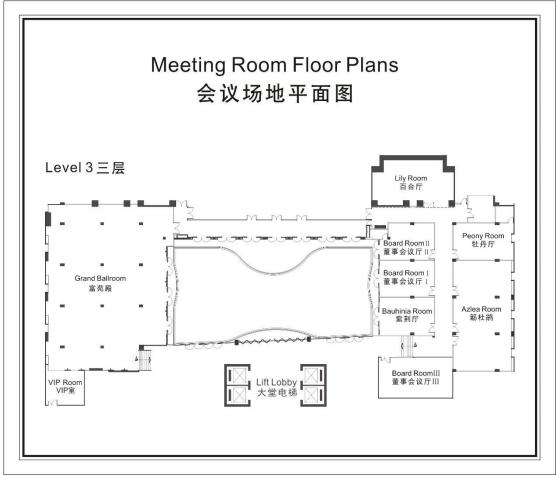
CSIS-IAC 2023 aims to provide a high-level international forum for scientists, researchers, educators, industrial professionals, and students worldwide to present state-of-the-art research results, address new challenges, and discuss trends in Complex Systems and Intelligent Science. CSIS-IAC 2023 invites scholars in all areas of Complex and Nonlinear Systems, System Analysis and Integration, Intelligent Science and Technology, and Intelligent Systems and Applications. In addition to regular technical sessions with oral and poster presentations, the conference program will include special sessions on topics of current interest. CSIS-IAC 2023 features plenary/keynote sessions by world leading researchers as well as awards to honor outstanding papers presented at the conference.

## Venue



深圳富苑皇冠假日套房酒店深圳市罗湖区南湖路 3018 号

Crowne Plaza Hotel & Suites Landmark Shenzhen 3018 Nanhu Rd, Luohu District, Shenzhen 518001, China +86 755 8217 2288





8:30–8:50 8:50–9:40 9:40–10:10 10:10–11:00		UMS COMMEN	nce Scheat	ule at a Gla	ance http	://www.csisia	ic.org	<b>.</b>
8:50–9:40 9:40–10:10 10:10–11:00				October 21, 2023				
8:50–9:40 9:40–10:10 10:10–11:00				ng ceremony (三楼				
10:10-11:00	Plenary 1:	Dynamic Uncertain Ca			General Practice	Applied in Real World b	y Qin Zha	ing
			Co	offee break (三楼外	•			
	Plenary 2: I	ntelligent Optimal Cont	rol for Municipal So	olid Waste Incinerat	ion Processes by J	Jun-Fei Qiao (Chair: Hua	guang Zh	ang)
11:00–11:50	Plenary 3: A Nev	w Approach for Optical		aphy Signal Process hair: Chenghong Wa		sponding Instrument Sys	tem by Sł	engli Xie
12:00-13:20				ınch (一楼中庭宴会				
	牡丹厅	簕杜鹃厅(I)	簕杜鹃厅(II)	簕杜鹃厅(III)	紫荆厅	百合厅	董事(I)	三楼外廊
13:30–15:30	SaA01: Special Session - Intelligent Systems and Applications (1) (Chairs: Jinling Liang and He Kong)	SaA02: Special Session - Adaptive Dynamic Programming and Reinforcement Learning (ADPRL研讨会I) (Chairs: Biao Luo and Qinmin Yang)	SaA03: Artificial Systems and Complex Networks (Chairs: Lu Dong and Zunshui Cheng)	SaA04: Hybrid and Smart Systems (Chairs: Kemi Ding and Yan Jiang)		SaA06: Special Session - Dynamic Neural Learning, Optimal Control and Intelligent Robots (1) (IEEE CIS Guangzhou Chapter) (Chairs: Zhijun Zhang and Dongsheng Guo)	AI重大 专项内 部会议	SaPoster: Poster Session (Chairs: Zhuo Wang and Ruizhuo Song)
15:30–16:00		Tung)	Co	offee break (三楼外	廊)			
16:00–18:00	SaB01: Special Session - Intelligent Systems and Applications (2) (Chairs: Jinling Liang and He Kong)	SaB02: Special Session - Theory and Applications of nmODE (1) (Chairs: Quan Guo and Yao Zhou)	SaB03: Neural Computation and its Applications (Chairs: Liangming Chen and Lidan Wang)	SaB04: Learning, Evolution and Computation (Chairs: Tao Liu and Jinghui Zhong)	Learning and Autonomous Systems (Chairs: Shenquan Wang	SaB06: Special Session - Dynamic Neural Learning, Optimal Control and Intelligent Robots (2) (IEEE CIS Guangzhou Chapter) (Chairs: Zhijun Zhang and Dongsheng Guo)	ADPRL 专委会	SaPoster: Poster Session (Chairs: Zhuo Wang and Ruizhuo Song)
18:30–19:50			Dinner and so	L ocializing time (一档	】 紫中庭宴会厅)		<u> </u>	
10.50 17.50			Dimer and Se		X I RESIDING			
			Sunday, O	ctober 22, 2023				
8:30-8:40				sion before plenary				
8:40–9:40			科学与平行智能:	面向必映,必明,	必曞的基础认知	lation Thinking for Being ) by Fei-Yue Wang (Cha		
9:40–10:10				offee break (三楼外				
10:10-11:00		-			-	g Liu (Chair: Zhongsheng		
11:00-11:50	Plenary	6: BCI Based Intelligen				ang Hou (Chair: Chengho	ong Wang	g)
12:00-13:20	ALDE:	然打印巨小		inch (一楼中庭宴会		I	支まの	
13:30–15:30	牡丹厅 SuA01: Special Session - Learning Control and Optimization for Complex Systems (Chairs: Qinglai Wei and Yisheng Lv)	簕杜鹃厅(I)  SuA02: Special Session - Theory and Applications of nmODE (2) (Chairs: Quan Guo and Yao Zhou)	簕杜鹃厅(II) SuA03: Special Session - Advanced Computation and Control in Complex Systems (Chairs: Hanguang Su and Yunfei Mu)	簕杜鹃厅(III) SuA04: Adaptive Dynamic Programming and Reinforcement Learning (ADPRL 研讨会2) (Chairs: Yanhong Luo and Xinglong Zhang)	紫荆厅 SuA05: Learning and Intelligent Control (Chairs: Yonghua Wang and Fuxiao Tan)		董事(I) IEEE广州分会 2024年 Chapter 活动	
15:30–16:00			Co	offee break (三楼外	廊)			
	SuB01: Special Session - Approximation Based Control and Optimization of Uncertain Nonlinear	SuB02: Special Session - Theory and Applications of nmODE (3) (Chairs: Quan Guo and Yao	SuB03: Special Session - Intelligent Learning and Control for Robotics and Autonomous	SuB04: Learning Control and Optimization (Chairs: Xiang Xu			平行控制与管理专委会2023	

18:30-20:30

Systems (Chairs:

Huanqing Wang and Ming Chen)

Zhou)

Systems (Chairs:

Weibing Li and Yinyan Zhang)

and Yongfeng Lv) Li and Tenghai

Dinner banquet and award ceremony (一楼中庭宴会厅)

Qiu)

年会

## **CSIS-IAC 2023 Committees**

#### **Steering Committee Chair**

Fei-Yue Wang, Chinese Academy of Sciences, China

#### **Steering Committee Members**

Philip Chen, South China University of Technology, China

Zeng-Guang Hou, Chinese Academy of Sciences, China

Zhongsheng Hou, Qingdao University, China

Robert Kozma, University of Massachusetts Amherst, USA

Guo-Ping Liu, Southern University of Science and Technology, China

Jennie Si, Arizona State University, USA

Yongduan Song, Chongqing University, China

Changyin Sun, Anhui University, China

Jie Tian, Beihang University, China

Jun Wang, City University of Hong Kong, Hong Kong, China

Dajun Zeng, Chinese Academy of Sciences, China

#### **Advisory Committee Chair**

Guangren Duan, Southern University of Science and Technology, China

#### **Advisory Committee Members**

Tamer Basar, University of Illinois, USA

Dimitri Bertsekas, Massachusetts Institute of Technology, USA

Tianyou Chai, Northeastern University, China

Kenji Doya, Okinawa Institute of Science and Technology, Japan

Minyue Fu, Southern University of Science and Technology, China

Yaochu Jin, Bielefeld University, Germany

Chenghong Wang, Chinese Association of Automation, China

DeLiang Wang, The Ohio State University, USA

Paul J. Werbos, Retired from National Science Foundation, USA

Shengli Xie, Guangdong University of Technology, China

Xin Yao, Southern University of Science and Technology, China

Gary G. Yen, Oklahoma State University, USA

Huaguang Zhang, Northeastern University, China

Qin Zhang, Tsinghua University, China

#### **General Chair**

Derong Liu, Southern University of Science and Technology, China

#### **General Co-Chairs**

Irwin King, Chinese University of Hong Kong, Hong Kong, China Marios Polycarpou, University of Cyprus, Cyprus

#### **Program Chairs**

Ping Guo, Beijing Normal University, China Zhang Yi, Sichuan University, China

#### **Program Co-Chairs**

Cesare Alippi, Politecnico di Milano, Italy

Qiufang Fu, Chinese Academy of Sciences, China

Hong Qu, University of Electronic Science and Technology, China

Xin Xu, National University of Defense Tehnology, China

#### **Regional Chairs**

Sabri Arik, Istanbul University, Turkey

Andries P. Engelbrecht, University of Stellenbosch, South Africa

Tingwen Huang, Texas A&M University at Qatar, Qatar

Eugenius Kaszkurewicz, Federal University of Rio de Janeiro, Brazil

Johan Suykens, Katholieke Universiteit Leuven, Belgium

Simon X. Yang, University of Guelph, Canada

Wei Xing Zheng, University of Western Sydney, Australia

#### **Special Sessions Chairs**

Long Cheng, Institute of Automation, Chinese Academy of Sciences, China

Shukai Duan, Southwest University, China

Zhigang Liu, Southwest Jiaotong University, China

Biao Luo, Central South University, China

Yongping Pan, Sun Yat-sen University, China

Manuel Roveri, Politecnico di Milano, Italy

Dianhui Wang, La Trobe University, Australia

#### **Publications Chairs**

Chaoxu Mu, Anhui University, China

Emanuele Principi, Università Politecnica delle Marche, Ancona, Italy

Qinglai Wei, Institute of Automation, Chinese Academy of Sciences, China

Qinmin Yang, Zhejiang University, China

Zhihui Zhan, South China University of Technology, China

#### **Poster Session Chairs**

El-Sayed M. El-Alfy, King Fahd University of Petroleum and Minerals, Saudi Arabia

Wei He, University of Science and Technology Beijing, China

Lidan Wang, Southwest University, China

Yong Xu, Guangdong University of Technology, China

#### **Publicity Chairs**

Amir Hussain, Edinburgh Napier University, UK

Jing Liang, Zhengzhou University, China

Jing Na, Kunming University of Science and Technology, China

Zhuo Wang, Beihang University, China

Kan Xie, Guangdong University of Technology, China

#### **Award Chairs**

Erik Cambria, Nanyang Technological University, Singapore

Zhiyun Lin, Southern University of Science and Technology, China

Ding Wang, Beijing University of Technology, China

Dongsheng Yang, Northeastern University, China

#### **Registration Chair**

Bo Zhao, Beijing Normal University, China

#### **Local Arrangements Chair**

Liangming Chen, Southern University of Science and Technology, China

#### **Secretariats**

Yunjie Xiang, Southern University of Science and Technology, China

Shan Xue, Hainan University, China

#### Track 1: Complex Systems and Complex Networks

Chair: Wenwu Yu, Southeast University, China

Chair: Linyuan Lv, University of Science and Tech. of China, China

#### Track 2: System Integration and Analysis

Chair: Zhuo Wang, Beihang University, China

Chair: Qinmin Yang, Zhejiang University, China

#### Track 3: Intelligent Control for Industrial Automation and Robotics

Chair: Bin Xu, Northwestern Polytechnical University, China

Chair: Zhengxing Wu, Chinese Academy of Sciences, China

#### **Track 4: Intelligent Systems and Applications**

Chair: Jinling Liang, Southeast University, China

Chair: He Kong, Southern University of Science and Tech., China

#### Track 5: Adaptive Dynamic Programming and Reinforcement Learning

Chair: Zhen Ni, Florida Atlantic University, USA

Chair: Biao Luo, Central South University, China

#### Track 6: Parallel Control and Parallel Intelligence

Chair: Qinglai Wei, Chinese Academy of Sciences, China

Chair: Zhen Shen, Chinese Academy of Sciences, China

#### Track 7: Computational Intelligence and Applications

Chair: Zenglin Xu, University of Electronic Science and Tech., China

Chair: Zhihui Zhan, South China University of Technology, China

#### **Track 8: Computational Social Systems**

Chair: Yisheng Lv, Chinese Academy of Sciences, China

Chair: Jun Zhang, Wuhan University, China

#### Track 9: Artificial Intelligence in Medicine

Chair: Zhenyu Liu, Chinese Academy of Sciences, China

Chair: Xiao Wang, Anhui University, China

#### **CSIS-IAC 2023 International Program Committee**

#### **Program Chairs**

Ping Guo, Beijing Normal University, China

Zhang Yi, Sichuan University, China

#### **Program Co-Chairs**

Cesare Alippi, Politecnico di Milano, Italy

Qiufang Fu, Chinese Academy of Sciences, China

Hong Qu, University of Electronic Science and Technology, China

Xin Xu, National University of Defense Tehnology, China

#### **Program Committee Members**

Satheesh Abimannan, Amity University, India

Tianjiao An, Changchun University of Technology, China

Mian M. Awais, Lahore University of Management Sciences, Pakistan

Weiwei Bai, Dalian Maritime University, China

Franzke Brandon, University of Southern California, USA

Liang Cao, Bohai University, China

Songyin Cao, Yangzhou University, China

Zhiqiang Cao, Chinese Academy of Sciences, China

Haoyao Chen, Harbin Institute of Technology, Shenzhen, China

Long Chen, Macau University, Macau, China

Ming Chen, LiaoNing University of Science and Technology, China

Qiang Chen, Zhejiang University of Technology, China

Xiangyong Chen, Linyi University, China

Yuanyuan Chen, Sichuan University, China

Jose Alfredo Ferreira Costa, Federal University, Brazil

Sergio Cruces, University of Seville, Spain

Lili Cui, Shenyang Normal University, China

Hassan Dawood, Univ. Engineering and Tech., Taxila, Pakistan

Hussain Dawood, National Skills University Islamabad, Pakistan

Bo Dong, Changchun University of Technology, China

Lu Dong, Southeast University, China

Na Dong, Tianjin University, China

Xisong Dong, Chinese Academy of Sciences, China

Zhiguang Feng, Harbin Engineering University, China

Takeshi Furuhashi, Nagoya University, Japan

Chuang Gao, University of Science and Technology Liaoning, China

Xiaoting Gao, Liaoning University, China

Dawei Gong, University of Electronic Science and Tech., China

Muhammad Gulzar, King Fahd U. Petro. & Minerals, Saudi Arabia

Jixiang Guo, Sichuan University, China

Quan Guo, Sichuan University, China

Yuyan Guo, South China University of Technology, China

Mingming Ha, MYbank, Ant Group, China

Weixin Han, Northwestern Polytechnical University, China

Shuping He, Anhui University, China

Yanlin He, Beijing University of Chemical Technology, China

Jin Hu, Chongqing Jiaotong University, China

Mingang Hua, Hohai University, China

Shahid Hussain, National University of Ireland Maynooth, Ireland

Akhtar Jamil, National U. Computer & Emerging Sciences, Pakistan

Mengyi Jiang, University of Science and Technology Liaoning, China

Wanyue Jiang, Qingdao University, China

Jian Jin, Beijing Normal University, China

Xuejing Lan, Guangzhou University, China

Jinna Li, Liaoning Petrochemical University, China

Li Li, Tsinghua University, China

Lingxi Li, Indiana University-Purdue University Indianapolis, USA

Tieshan Li, University of Electronic Science and Tech., China

Yushuai Li, Northeastern University, China

Mingming Liang, BYD Auto Industry Company, China

Yuling Liang, Shenyang University of Technology, China

Chong Liu, Xi'an University of Architecture and Technology, China

Jinhai Liu, Northeastern University, China

Lei Liu, Liaoning University of Technology, China

Shuyang Liu, Changchun University of Technology, China

Xiaomin Liu, China University of Mining and Technology, China

Yang Liu, Qingdao University of Science and Technology, China

Chuan Luo, Sichuan University, China

Yanhong Luo, Northeastern University, China

Yongfeng Lv, Taiyuan University of Technology, China

Bing Ma, Changchun University of Technology, China

Yutao Ma, Wuhan University, China

Mohammed Abdallah Bakr Mahmoud, MSA University, Giza, Egypt

Jacek Mandziuk, Warsaw University of Technology, Poland

Junkang Ni, Northwestern Polytechnical University, China

Yuanhua Ni, Nankai University, China

Toshiaki Omori, Kobe University, Japan

Yingnan Pan, Bohai University, China

Cortez Paulo, Federal University of Ceara, Brazil

Zhinan Peng, University of Electronic Science and Tech., China

Chunbin Qin, Henan University, China

Jianlong Qiu, Linyi University, China

Jagath C. Rajapakse, Nanyang Technological University, Singapore

Michele Scarpiniti, Sapienza University of Rome, Italy

Robert Schmid, Univeristy of Melbourne, Australia

Shuyi Shao, Nanjing Univ. Aeronautics and Astronautics, China

Hao Shen, Anhui University of Technology, China

Linlin Shi, South China Agricultural University, China

Yifan Shi, Huaqiao University, China

Yingxin Shou, Northwestern Polytechnical University, China

Kher Shubhalaxmi, Arkansas State University, USA

Ruizhuo Song, University of Science and Technology Beijing, China

Xin Song, Northeastern University at Qinhuangdao, China

Hanguang Su, Northeastern University, China

Jingliang Sun, Beijing Institute of Technology, China

Ning Sun, Nankai University, China

Shiliang Sun, East China Normal University, China

Zhongbo Sun, Changchun University of Technology, China

Hao Tang, Hefei University of Technology, China

Sabu M. Thampi, Indian Inst. Infor. Tech. & Manag. - Kerala, India

Dat Tran, University of Canberra, Australia

Michel Verleysen, Universite Catholique de Louvain, Belgium

Fuyong Wang, Nankai University, China

Huanqing Wang, Bohai University, China

Jianyong Wang, Sichuan University, China

Lijie Wang, Qingdao University, China

Lituan Wang, Sichuan University, China

Qin Wang, Yangzhou University, China

Shenquan Wang, Changchun University of Technology, China

Shubo Wang, Qingdao University, China

Xia Wang, Northwestern Polytechnical University, China

Xianghua Wang, Shandong Univ. Science and Technology, China

Xin Wang, Southwest University, China

Yonghua Wang, Guangdong University of Technology, China

Yu Wang, Chinese Academy of Sciences, China

Ze Wang, Capital Normal University, China

Zhi Wang, Nanjing University, China

Yoshikazu Washizawa, University of Electro-Communications, Japan

Kazuho Watanabe, Toyohashi University of Technology, Japan

Bunthit Watanapa, King Mongkut's Univ. Tech. Thonburi, Thailand

Liyan Wen, Nanjing Univ. Aeronautics and Astronautics, China

Libing Wu, University of Science and Technology Liaoning, China

Qiuye Wu, Guangdong University of Technology, China

Hongbing Xia, Anhui University, China

Zhengrong Xiang, Nanjing Univ. Science and Technology, China

Lin Xiao, Hunan Normal University, China

Xiangpeng Xie, Nanjing Univ. Posts and Telecommunications, China

Yong Xu, Guangdong University of Technology, China

Shan Xue, Hainan University, China

Jing Yan, Yanshan University, China

Chunyu Yang, China University of Mining and Technology, China

Kaixiang Yang, South China University of Technology, China

Xian Yang, Yanshan University, China

Xiong Yang, Tianjin University, China

Yang Yang, Nanjing Univ. Posts and Telecommunications, China

Yongliang Yang, University of Science and Technology Beijing, China

Di Yu, Beijing Information Science and Technology University, China

Nianyin Zeng, Xiamen University, China

Dehua Zhang, Henan University, China

Huifeng Zhang, Nanjing Univ. Posts and Telecommunications, China

Ke Zhang, Nanjing Univ. Aeronautics and Astronautics, China

Kun Zhang, Beihang University, China

Lei Zhang, Sichuan University, China

Qichao Zhang, Chinese Academy of Sciences, China

Rui Zhang, Northwestern Polytechnical University, China

Shunchao Zhang, Guangdong University of Finance, China

Tao Zhang, Chinese Academy of Sciences, China

Xiangwen Zhang, Guilin University of Electronic Technology, China

Xiumei Zhang, Changchun University of Technology, China

Yangming Zhang, Hangzhou Dianzi University, China

Yongwei Zhang, Guangdong University of Technology, China

Ziye Zhang, Shandong Univ. Science and Technology, China

Xudong Zhao, Dalian University of Technology, China

Zhijia Zhao, Guangzhou University, China

Xiaohu Zhou, Chinese Academy of Sciences, China

Yao Zhou, Sichuan University, China

Fenghua Zhu, Chinese Academy of Sciences, China

Yanzheng Zhu, Shandong Univ. Science and Technology, China

An-Min Zou, Shantou University, China

Xiaoyu Zou, China University of Mining and Technology, China

Baig Zubair, Edith Cowan University, Australia

## **Plenary Lectures**



## Qin Zhang

08:50-09:40 October 21, 2023

Dynamic Uncertain Causality Graph for Clinical Diagnosis in General Practice Applied in Real World

Qin Zhang is a member of the Standing Committee of the 13th Chinese People's Political Consultative Conference, emeritus member of China Association for Science and Technology, member of International Nuclear Energy Academy, head of the strategic advisory expert team for China National Key Project of Nuclear Power, Fellow of Chinese Association for Artificial Intelligence (CAAI), Chair of the Technical Committee for Uncertainty in AI of CAAI, Director of the Academic Advisory Committee of China Intellectual Property Society, and Professor of Institute of Nuclear and New Energy Technology and Department of Computer Science and Technology, Tsinghua University.

#### **Abstract:**

DUCG (Dynamic Uncertain Causality Graph) is a newly developed medical AI model that graphically represents domain uncertain causal knowledge and makes probabilistic reasoning with penetrative explainability and inherent invariance in different application scenarios. The "independent and identically distributed" assumption is not needed in DUCG, because DUCG is causality-driven instead of data-driven. Therefore, DUCG does not have problems such as data collecting, labeling, fitting, privacy, bias, generalization, high cost and high energy consumption, etc. This presentation will show online how DUCG works to guide general practitioners to make clinical diagnoses under more than 50 chief complaints covering more than 1,000 diseases, including how to collect clinical information and what medical checks to make, step by step according to the conditions of primary hospitals or clinics. The chief complaints include: Cough sputum, dyspnea, abdominal pain, diarrhea, hematemesis, nasal congestion, nasal bleeding, blood in the stool, nausea and vomiting, joint pain, hemoptysis, fever, chest pain, jaundice, anemia, edema, obesity, emaciation, sore throat, palpitation, fever in children, dizziness, headache, constipation, rash, difficulty swallowing, enlargement of lymph nodes, cyanosis, limb numbness, vaginal bleeding, abnormal vaginal discharge, pruritus vulvae, reduced menstruation or amenorrhea, abdominal distension, syncopation, tinnitus, deafness, earache, acid reflux, heartburn, hiccup, belching, mass, oliguria or no uria, lower urinary tract symptoms (frequent urination, urgency of urination, pain in urine, dysuria, polyuria, gross hematuria, and urine leakage), neck and low back pain (neck pain, waist pain and back pain). In total, the diagnostic precision verified by third-party hospitals for every chief complaint is more than 95%, in which the diagnostic precision for every disease (including uncommon disease) is no less than 80%, which is most needed by general practitioners. More than 650,000 cases were performed in real world in China. In which, only 17 diagnoses were determined as incorrect and the mistakes in DUCG were found and fixed afterward. Statistics in the real-world applications show that DUCG can increase the ability of general practitioners to diagnose diseases several times more than without DUCG.



### Jun-Fei Qiao

10:10-11:00 October 21, 2023

**Intelligent Optimal Control for Municipal Solid Waste Incineration Processes** 

Jun-Fei Qiao is a Professor and the Vice President of Beijing University of Technology. He is the Director of Beijing Laboratory of Smart Environmental Protection, Director of Engineering Research Center of Intelligent Perception and Autonomous Control, Ministry of Education. He also serves as a member of the discipline appraisal group of the Academic Degrees Committee of the State Council, and a member of the Teaching Steering Committee of the Ministry of Education. He is a Distinguished Professor of the "Changjiang Scholar Award Program", and a recipient of the National Science Fund for Distinguished Young Scholars from the National Natural Science Foundation. He is also a winner of the New Century Ten Million Talents Project, and an expert enjoying the Special Government Allowance from the State Council. Prof. Qiao's research focuses on computational intelligence and intelligent optimal control, and smart environmental protection. He has published more than 200 papers on prestigious journals, and more than 100 invention patents have been authorized by U.S. and China respectively. He has won several awards, including 1 second prize of National Science and Technology Progress Award, and 1 first prize of Science and Technology Progress Award by the Ministry of Education.

#### **Abstract:**

Municipal solid waste incineration (MSWI) provides an effective and promising approach for managing municipal solid waste (MSW) due to the fact that it can reduce waste volume and recover energy. MSWI has become an important support for the ecological civilization construction and dual carbon target. The MSWI process is a complex dynamic system with multiple elements in space and time, involving various physical and chemical reactions, with strong nonlinearity, high coupling, etc. Hence, it is difficult to realize the optimal control of MSWI processes. This talk will discuss the challenges faced by realizing the optimal control, and then introduce the recent developments of real-time measurement, adaptive control, and multi-objective dynamic optimization.

## Shengli Xie



11:00-11:50 October 21, 2023

A New Approach for Optical Coherence Tomography Signal Processing and the Corresponding Instrument System

Shengli Xie received the B.S. degree in mathematics from Jilin University, Changchun, China, in 1983, the M.S. degree in mathematics from Central China Normal University, Wuhan, China, in 1995, and the Ph.D. degree in control theory and applications from South China University of Technology, Guangzhou, China, in 1997. He is currently a Full Professor and the Head of the Institute of Intelligent Information Processing, Guangdong University of Technology, Guangzhou. He was awarded Highly Cited Researcher. His research interests include blind signal processing, machine learning, and Internet of Things. He was an Associate Editor for IEEE Transactions on Neural Networks and Learning Systems, and is an Associate Editor for IEEE Transactions on Systems, Man, and Cybernetics: Systems. He received the Second Prize of National Natural Science Award of China in 2009. He is a Foreign Full Member (Academician) of the Russian Academy of Engineering. He is a winner of the Science and Technology Progress Award 2022 of the Ho Leung Ho Lee Foundation.

#### **Abstract:**

Resin composite materials possess several advantages, including high strength, resistance to high temperatures, and low density. These materials find extensive applications in the construction of high-end aviation equipments. To fulfill the demands for complicate equipment loads, increased carrying capacity, extended service life, and enhanced safety, it is imperative to conduct scientific research on the mechanical properties and failure mechanisms of materials. Therefore, the development of tomographic deformation measurement techniques is crucial in accurately capturing the strength and damage evolution of composite materials, both externally and internally. Optical coherence tomography (OCT) is an advanced method that offers nanometerlevel measurement sensitivity for tomographic deformation analysis, positioning it at the forefront of international research. However, resolution limitations, inadequate measurement accuracy, and low signal-to-noise ratio (SNR) of imaging pose significant challenges within this field, necessitating substantial advancements. The commonly accepted solution entails utilizing hardware techniques, such as expanding the bandwidth of the light source. Unfortunately, this strategy can increase the complexity of integrating hardware and therefore is difficult to fundamentally resolve the aforementioned bottleneck issues. As a result, it is imperative to investigate a novel approach for OCT signal processing, as well as the development of associated instrument systems. This lecture introduces novel techniques in OCT signal processing, sparse blind separation for estimating interferometric underdetermined blind separation for unmixing interlayer phases, and spatial spectral separation for compensating phase errors. A state-of-the-art tomographic measurement instrument system has been developed. The detailed content includes:

(1) Considering the issue of restricted resolution resulting from narrow bandwidth,

we uncover the consistent occurrence of sparse interference spectrum as a crucial parameter for characterizing axial resolution. Building upon this finding, we propose the "sparse blind separation model for OCT" and the "interference spectrum sparsity optimization method for multi-layer underdetermined systems", which effectively overcomes the bottleneck of axial resolution limitations.

- (2) To address the challenge of inadequate measurement accuracy resulting from spectral leakage, we establish the "underdetermined blind separation (UBS) model for OCT phase" in the wavenumber domain. Furthermore, we present the "OCT phase spectrum optimization method" to solve the UBS model and finally, the solution can enable precise reconstruction of topography and deformation measurements without the need for prior information.
- (3) To solve the challenge of low SNR arising from speckle decorrelation, we investigate a phase noise localization method based on binary maps. Additionally, we present new OCT image processing techniques, specifically "spatio-temporal adaptive differential phase calculation" and "interference spatial spectrum separation phase error compensation," leading to a 137% improvement in SNR in strain imaging.
- (4) Building upon the innovative techniques for processing OCT signals mentioned earlier, we develop a new OCT system that is capable of measuring surface topography and internal deformation with high precision. Notably, the system offers an axial resolution of 1 micron, a cross-sectional measurement speed of 20 frames per second, and a measurement accuracy within  $\pm 20$  nanometers, showing a superior performance in comparations to current mainstream OCT systems.

# The Complexit

## Fei-Yue Wang

08:40-09:40 October 22, 2023

The Complexity Science and Parallel Intelligence for the New Generation - A Foundation Thinking for Being, Becoming, and Believing 第三轴心时代的复杂性科学与平行智能:面向必映,必明,必曞的基础认知

Fei-Yue Wang received his Ph.D. degree in computer and systems engineering from the Rensselaer Polytechnic Institute, Troy, NY, USA, in 1990. He joined The University of Arizona in 1990 and became a Professor and the Director of the Robotics and Automation Laboratory and the Program in Advanced Research for Complex Systems. In 1999, he founded the Intelligent Control and Systems Engineering Center at the Institute of Automation, Chinese Academy of Sciences (CAS), Beijing, China, under the support of the Outstanding Chinese Talents Program from the State Planning Council, and in 2002, was appointed as the Director of the Key Laboratory of Complex Systems and Intelligence Science, CAS, and Vice President of Institute of Automation, CAS in 2006. He found CAS Center for Social Computing and Parallel Management in 2008, and became the State Specially Appointed Expert and the Founding Director of the State Key Laboratory for Management and Control of Complex Systems in 2011. His current research focuses on methods and applications for parallel intelligence, social computing, and knowledge automation. He is a Fellow of INCOSE, IFAC, ASME, and AAAS. In 2007, he received the National Prize in Natural Sciences of China, numerous best papers awards from IEEE Transactions, and became an Outstanding Scientist of ACM for his work in intelligent control and social computing. He received the IEEE ITS Outstanding Application and Research Awards in 2009, 2011, and 2015, respectively, the IEEE SMC Norbert Wiener Award in 2014, and became the IFAC Pavel J. Nowacki Distinguished Lecturer in 2021. Since 1997, he has been serving as the General or Program Chair of over 30 IEEE, INFORMS, IFAC, ACM, and ASME conferences. He was the President of the IEEE ITS Society from 2005 to 2007, the IEEE Council of RFID from 2019 to 2021, the Chinese Association for Science and Technology, USA, in 2005, the American Zhu Kezhen Education Foundation from 2007 to 2008, the Vice President of the ACM China Council from 2010 to 2011, the Vice President and the Secretary General of the Chinese Association of Automation from 2008 to 2018, the Vice President of IEEE Systems, Man, and Cybernetics Society from 2019 to 2021. He was the Founding Editor-in-Chief (EiC) of the International Journal of Intelligent Control and Systems from 1995 to 2000, IEEE ITS Magazine from 2006 to 2007, IEEE/CAA Journal of Automatica Sinica from 2014 to 2017, China's Journal of Command and Control from 2015 to 2021, and China's Journal of Intelligent Science and Technology from 2019 to 2021. He was the EiC of the IEEE Intelligent Systems from 2009 to 2012, IEEE Transactions on Intelligent Transportation Systems from 2009 to 2016, IEEE Transactions on Computational Social Systems from 2017 to 2020. Currently, he is the President of CAA's Supervision Council, and the EiC of IEEE Transactions on Intelligent Vehicles.

#### **Abstract:**

The lecture explores the synergistic potential of parallel intelligence, Industry 5.0 in the context of radio-frequency identification (RFID) and smart sensing technologies. As Industry 4.0 transitions to the next phase of industrial revolution, Industry 5.0 emphasizes the harmonious

coexistence between humans and machines, promoting human-centered approaches to technological advancements. Parallel intelligence, a concept leveraging Artificial systems (A), Computational experiments (C), and Parallel execution (P) to enable novel solutions and insights that address complex problems and achieve superior outcomes. By combining RFID and smart sensing technologies with decentralized autonomous organizations (DAOs) and decentralized science (DeSci), new possibilities emerge. The collective intelligence of multiple RFID systems and smart sensors can be harnessed to optimize supply chain operations, enhance asset tracking accuracy, and enable predictive maintenance. The integration of DAOs further enhances this collaborative ecosystem by facilitating decentralized decision-making and resource allocation. DeSci emphasizes open collaboration, data sharing, and reproducibility, facilitating scientific progress and innovation in a decentralized manner, and empowers collaborative frameworks for RFID and smart sensing the potential to revolutionize industries, drive efficiency, and foster innovation in a human-centered and decentralized manner, paving the way for a more sustainable and smart future.



## **Guo-Ping Liu**

10:10-11:00 October 22, 2023

**Cloud Predictive Control for Networked Multi-agent Systems** 

Professor Guo-Ping Liu received the BEng degree in industrial automation and MEng degree in control engineering from the Central South University of Technology, China (now Central South University) and the PhD degree in control systems from the University of Manchester in the UK. He was a professor with the Institute of Automation of the Chinese Academy of Sciences, University of South Wales, Harbin Institute of Technology, and Wuhan University. He is now a chair professor with the Southern University of Science and Technology. Prof Liu's research interests include networked control systems, multi-objective optimal control and intelligent decision, nonlinear identification and intelligent control, and industrial advanced control applications. He was named a highly cited researcher by Thomson Reuters, Clarivate Analytics, and Elsevier. He was awarded the Alexander von Humboldt research fellowship. He received the second prize of Chinese National Science and Technology Awards twice. Prof. Liu was the general chair of the 2007 IEEE International Conference on Networking, Sensing and Control, 2011 International Conference on Intelligent Control and Information Processing, and 2012 UKACC International Conference on Control. He is a member of the Academy of Europe and a fellow of IEEE, IET and CAA.

#### **Abstract:**

With the rapid development of communication network technology, cloud computing technology and control system technology, there are more and more networked multi-agent control systems via cloud computing, such as industrial internet control systems and smart grids. This talk mainly discusses the coordinated control problem of networked multi-agent systems based on cloud computing. For complex large-scale networked multi-agent systems, utilizing the advantages of cloud computing, a cloud predictive control strategy is introduced to compensate for communication constraints actively, execute control algorithms fast and achieve desired coordination performance of the systems. A multi-step learning predictor is discussed to predict the future outputs of unknown nonlinear multi-agents. The coordinated control optimization design is adopted to have the expected dynamic and static coordination performance between individual agents. The consensus and stability of networked multi-agent systems are analysed, which is controlled employing the cloud predictive control method. The simulation and experimental results demonstrate the advantages of the cloud predictive control of networked multi-agent systems.



## Zeng-Guang Hou 11:00-11:50 October 22, 2023

**BCI Based Intelligent Control Methods for Rehabilitation Robots** 

Zeng-Guang Hou is a Professor and Deputy Director of the State Key Laboratory of Management and Control for Complex Systems, Institute of Automation, Chinese Academy of Sciences (CAS). He is a VP of Chinese Association of Automation (CAA), VP of the Asia Pacific Neural Network Society (APNNS). Dr. Hou is a CAA Fellow and an IEEE Fellow. He also serves as an AE of IEEE Transactions on Cybernetics, and an Editorial Board Member of Neural Networks. Dr. Hou was a recipient of the Dennis Gabor Award of the International Neural Network Society (INNS) in 2023, the Outstanding Achievement Award of Asia Pacific Neural Network Society (APNNS) in 2017, and IEEE Transactions on Neural Networks Outstanding Paper Award in 2013, etc. His research interests include computational intelligence, robotics and intelligent systems.

#### Abstract:

We are facing increasingly serious issues due to aging population, such as stroke and Alzheimer's disease, which require accurate evaluation and efficient rehabilitation, but we are short of rehabilitation therapists. Rehabilitation robots are expected to provide a possible technical solution helping to solve these issues and provide more efficient rehabilitation services for patients and therapists. However, applications of rehabilitation robots also have many challenges, such as efficiency, reliability and safety for human-robot interactions. And intelligent control is an important issue hindering its development. In this talk, we will discuss the recent developments and challenges of multi-modal biological signal acquisition and processing, brain-computer interface and intelligent control methods, and prospects for the future development.

CSIS-IAC 2023 Technical Program

## **Technical Program**

## **Saturday, Oct. 21, 2023**

for Discrete Uncertain Systems with Time Delays

		for Discrete Uncertain Systems	with Time Delays
	30-15:30 牡丹厅	Wang, Shiqi	Univ. of Sci. & Tech. Liaoning
Special Session: Intelligent Syste	, ,	Li, Hui	Univ. of Sci. & Tech. Liaoning
Organizer: Liang, Jinling	Southeast Univ.	Li, Hua	Univ. of Sci. & Tech. Liaoning
Organizer: Kong, He	Southern Univ. of Sci. & Tech.	Shi, Huiyuan	Liaoning Petrochemical Univ.
Chair: Liang, Jinling	Southeast Univ.	Sun, Qiubai	Univ. of Sci. & Tech. Liaoning
Co-Chair: Kong, He	Southern Univ. of Sci. & Tech.	Li, Ping	Liaoning Shihua Univ.
► SaA01-1	13:30–13:50	► SaA02-4	14:30–14:50
Privacy-Preserving Bipartite Cons	sensus on Signed Networks		Agent Cooperative Decision-Making with
Zhang, Jing	Southeast Univ.	Reinforcement Learning	3 · · · · · · · · · · · · · · · · · · ·
Lu, Jianquan	Southeast Univ.	Hu, Tianmeng	Central South Univ.
Chen, Xiangyong	Linyi Univ.	Luo, Biao	Central South Univ.
Zhong, Jie	City Univ. of Hong Kong	Yang, Chunhua	Central South Univ.
► SaA01-2	13:50–14:10	Huang, Tingwen	Texas A& M Univ.
Recursive Filtering for Nonlinear	Systems with Measurement Saturation	. C-400 F	14.50 15.10
and Correlated Noises		► SaA02-5	14:50–15:10
Cai, Shipei	Southeast Univ.	_	in Reinforcement Learning for Ads Allo-
Liang, Jinling	Southeast Univ.	cation	Chinago Agad of Cai
► SaA01-3	14:10-14:30	Zhang, Qichao	Chinese Acad. of Sci.
Adaptive Fixed-Time Neural Track	king Control for Nonlinear Systems with	► SaA02-6	15:10–15:30
Unknown Disturbances		Robust Output Feedback Switch	ning Fault-tolerant Control for Linear Dis-
Zhang, Na	Liaocheng Univ.	crete Systems with Intermittent	Actuator Failures
Li, Chong	Liaocheng Univ.	Zuo, Lanshuang	Liaoning Petrochemical Univ.
Yue, Huarong	Liaocheng Univ.	Shi, Huiyuan	Liaoning Petrochemical Univ.
Liu, Xinru	Liaocheng Univ.	Li, Jinna	Liaoning Petrochemical Univ.
Xia, Jianwei	Liaocheng Univ.	Su, Chengli	Liaoning Petrochemical Univ.
► SaA01-4	14:30–14:50		
	inear Systems with Sensor Faults	SaA03 13:3	<b>30−15:30</b>
Gao, Yu	Liaocheng Univ.	Regular Session: Artificial Syste	ms and Complex Networks
Sun, Wei	Liaocheng Univ.	Chair: Dong, Lu	Southeast Univ.
► SaA01-5	14:50–15:10	Co-Chair: Cheng, Zunshui	Qingdao Univ. of Sci. & Tech.
	or H∞ Control of Completely Unknown	► SaA03-1	13:30–13:50
Nonlinear System via Generalize	• •		spension Control Failure Identification of
Jin, Yuyue	Northeastern Univ.	Maglev Systems	spension control rallare identification of
Su, Hanguang	Northeastern Univ.	Wang, Su-Mei	The Hongkong Polytechnic Univ.
Liu, Fan	Northeastern Univ.	-	
Cui, Yi	Northeastern Univ.	► SaA03-2	13:50–14:10
Zhi, Gan	Northeastern Univ.		e Prioritization Using A Comprehensive
·	15:10–15:30	Evaluation Framework	
SaA01-6		Li, Qiao	Tsinghua Univ.
	of A Robot Manipulator with Time-	Li, Lefei	Tsinghua Univ.
Varying State Constraints	Zhojiana Univ. of Tooh	Ren, Xusheng	Tsinghua Univ.
Wei, Yan	Zhejiang Univ. of Tech.	► SaA03-3	14:10-14:30
Hao, Mingshuang	Zhejiang Univ. of Tech.	Synchronization of Scale-free N	etworks
Yu, Xinyi Chen, Qiang	Zhejiang Univ. of Tech.	Jin, Xin	Qingdao Univ. of Sci. & Tech.
<del>-</del>	Zhejiang Univ. of Tech.	Cheng, Zunshui	Qingdao Univ. of Sci. & Tech.
Ou, Linlin	Zhejiang Univ. of Tech.	•	· ·
	D-15:30	► SaA03-4  Cortifiably Robust Out-Of-Distrib	14:30–14:50
	mic Programming and Reinforcement	•	oution Detection Based on Prediction Un-
Learning (ADPRL研讨会1)		certainy Weighting Liu, Yanchao	Shandong Tech. & Business Univ.
Organizer: Luo, Biao	Central South Univ.	•	Shandong Tech. & Business Univ.
Chair: Luo, Biao	Central South Univ.	Dou, Quansheng Tang, Huanling	Dalian Maritime Univ.
Co-Chair: Yang, Qinmin	Zhejiang Univ.	· ·	
► SaA02-1	13:30–13:50	Zhou, Liyuan Li, Xiujuan	Shandong Tech. & Business Univ. Shandong Tech. & Business Univ.
Spare Parts Inventory Optimization	on for Wind Farms	•	Snandong ledn. a business Univ.
Hu, Jingyao	Zhejiang Univ.	► SaA03-5	14:50–15:10
Li, Chao	Zhejiang Univ.	•	action-Diffusion Neural Networks Driven
Yang, Qinmin	Zhejiang Univ.	by G-Brownian Motion with Time	e-Varying Delay
► SaA02-2	13:50–14:10	Zhang, Zhi	Southwest Minzu Univ.
	ontrol of Unknown Large-Scale System-	Yang, Jun	Southwest Minzu Univ.
s via Dynamic Event-Triggered Si	-	► SaA03-6	15:10–15:30
Cui, Yi	Northeastern Univ.		ch for Establishing Stability Region for
Su, Hanguang	Northeastern Univ.		A Class of Linear Time-invariant Systems
Hu, Xuguang	Northeastern Univ.	with Discrete or Distributed Dela	-
		Biodicto di Diditibutoa Dela	7

Yang, Luan

Zhou, Shijie

Fudan Univ.

Fudan Univ.

14:10-14:30

Predictive Fault-tolerant Control with Robust Dynamic Output Feedback

► SaA02-3

Technical Program CSIS-IAC 2023

lechnical Progra	<u> </u>			C5I5-IAC 2023
SaA04		灶鹃厅Ⅲ	Pan, Sijin	Harbin Inst. of Tech.
	orid and Smart Systems		Miao, Zibo	Harbin Inst. of Tech., Shenzhen
Chair: Ding, Kemi	Southern University of Science and Tech	hnology	► SaA05-5	14:50–15:10
Co-Chair: Jiang, Yan	Southea	ıst Univ.		f Mechanical Property Parameters and Layup Ori
SaA04-1	13:30	0–13:50	entation Angle in A Co	
Adaptive Fuzzy Tracki	ing Control of Uncertain High-Order Nonline	ear Sys-	Gong, Yulian	Beihang Univ
	Full-State Constraints and Zero Dynamics	-	Tang, Yuhua	State Administration of Sci., Tech. & Industry for
Yang, Zhengyu	Guang	xi Univ.	iang, runua	
Jiang, Yan	Southea		<b>7</b> 1 11	National Defence,PRC
SaA04-2		0–14:10	Zhang, Jianguo	Beihang Univ
	le Complex System Modeling Framework a		►SaA05-6	15:10–15:30
allelization Dynamics	, ,	ııuı aı-	Optimal Impulsive C	Control for Continuous-Time Nonlinear Systems
•	National Univ. of Defens	o Tooh	Based on ADP	
Gao, Geolone			Liang, Mingming	BYD
Huang, Jian	National Univ. of Defens		SaA06	13:30-15:30 百合厅
Zhang, Lun	National Univ. of Defens			amic Neural Learning, Optimal Control and Intelli-
Tang, Bin	National Univ. of Defens		gent Robots (1)	anno modia. Eodining, Opinia. Oomio and intoin
Zhang, Jiarui	National Univ. of Defens		Organizer: Zhang, Zhi	ijun South China Univ. of Tech.
SaA04-3	14:10	0–14:30	Organizer: Li, Weibing	
	red $H_\infty$ Control for Uncertain Stochastic S	Singular	Organizer: Guo, Dong	,
Markov Jump Systems	s with Time-varying Delays			
Chang, Chunling	Shenyang Jianzh	nu Univ.	Organizer: Kang, Wer	•
Yang, Zihan	Shenyang Jianzh	nu Univ.	Organizer: Xiao, Lin	Hunan Normal Univ.
Xing, Shuangyun	Shenyang Jianzh		Chair: Zhang, Zhijun	South China Univ. of Tech.
SaA04-4	11/30	0–14:50	Co-Chair: Guo, Dongs	<u> </u>
	based Multi-agent Reinforcement Learn		►SaA06-1	13:30–13:50
Large-scale Traffic Sig	<del>-</del>	ig 101	-	nerative-Intelligence Agricultural Robot Systems
Tao, Zhicheng		ng Univ.	Zhang, Zhijun	South China Univ. of Tech.
-	•	-	Pan, An	South China Univ. of Tech.
Li, Chao	•	ng Univ.	Li, Xingru	South China Univ. of Tech.
Yang, Qinmin	•	ng Univ.	Luo, Yamei	South China Univ. of Tech.
►SaA04-5		0–15:10	► SaA06-2	13:50-14:10
Zeroing Neural Netw	ork for Solving Hybrid Time-Dependent	Linear-		sed Autonomous Intelligent Unmanned Systems
Nonlinear Dynamic Sy	/stem		Zhang, Zhijun	South China Univ. of Tech.
Pan, Shuang	Xinyang Norma	ıal Univ.	Wu, Zhentao	South China Univ. of Tech.
Chen, Jingjing	Xinyang Norma	ıal Univ.	Ge, Ren	South China Univ. of Tech.
Sun, Jiaqi	Xinyang Norma	al Univ.	•	
Zhu, Xinhui	Xinyang Norma	al Univ.	► SaA06-3	14:10–14:30
Li, Jian	Xinyang Norm			oing Neural Network with Noise Tolerance for Time
►SaA04-6		0–15:30	varying Stein Matrix E	quation Solving
	ning Predictive Fault-tolerant Switching Cor		Xie, Yunrui	Hunan Normal Univ
	Lyapunov-Razumikhin Approach	111101 101	Xiao, Lin	Hunan Normal Univ
	Univ. of Sci. & Tech. L	i a a mi m m	► SaA06-4	14:30–14:50
Li, Hui		U	Multi-level Attention N	letwork for Cross-modal Hashing Retrieval
Wang, Shiqi	Univ. of Sci. & Tech. L	U	Cheng, Jiabei	Hong Kong Polytechnic Univ
Shi, Huiyuan	Liaoning Petrochemic		Yan, Xueming	Guangdong Univ. of Foreign Studies
Li, Ping	Liaoning Shihu		► SaA06-5	14:50–15:10
SaA05	13:30–15:30	紫荆厅		enetic Algorithm for Solving the Multi-Row Dynamic
Regular Session: Syst	tem Modelling and Advanced Control		Facility Layout Probler	•
Chair: Yang, Xiong	Tiani	jin Univ.	Liu, Jinfa	Guangdong Univ. of Foreign Studies
Co-Chair: Shen, Hao	Anhui Univ. o	•	Li, Wanhua	Guangdong Univ. of Foreign Studies
SaA05-1		0–13:50	·	
	ical Model for Wide-load Range Operation o		► SaA06-6	15:10–15:30
supercritical Units	cal woder for wide-load Hange Operation C	or Onra-	·	current Neural Network for Solving the Joint-Angle
Zhao, Quankai	Morthopata	rn Hniv	Drift Issues of Redund	•
*	Northeaster Northeaster		Zheng, Boyu	Nanchang Univ
Yang, Dongsheng	Northeaster		Li, Chunquan	Nanchang Univ.
Zhou, Bowen	Northeaster		Zhang, Zhijun	South China Univ. of Tech.
Tan, Futian	Northeaster		Yu, Junzhi	Peking Univ.
Wu, Mingliang	Northeaster		Liu, Xiaoping	Carleton Univ.
Yuan, Fengyi	Liaoning Univ. of Techr	nologgy		
SaA05-2	13:50	0–14:10	SaB01	16:00-18:00 牡丹厅
Optimal Control of Dis	screte-Time Markov Jump Systems with Ui	nknown	Special Session: Intell	ligent Systems and Applications (2)
System Dynamics: A	Parallel Reinforcement Learning Scheme		Organizer: Liang, Jinli	• • • • • • • • • • • • • • • • • • • •
Wang, Yun	Anhui Univ. o	of Tech.	Organizer: Kong, He	Southern Univ. of Sci. & Tech
Li, Wenqian	Anhui Univ. o		Chair: Liang, Jinling	Southeast Univ
Wu, Jiacheng	Anhui Univ. o		Co-Chair: Kong, He	Southern Univ. of Sci. & Tech.
Wang, Jing	Anhui Univ. o		-	
Shen, Hao	Anhui Univ. o		► SaB01-1	16:00–16:20
				Dispatch of Microgrids Based on Event-Triggered
SaA05-3		0–14:30	Mechanisms with Wat	•
	Control for Switched Linear Systems		. •	State Grid Shanghai Electric Power Research Inst
Li, Jinghan	Northeaster		Sun, Lei	Univ. of Shanghai for Sci. & Tech.
Liu, Yan	Northeaster	rn Univ.	Zhao, Peifeng	Univ. of Shanghai for Sci. & Tech.
Ma, Ruicheng	Liaonir	ng Univ.	Ding, Derui	Swinburne Univ. of Tech.
►SaA05-4	14:30	0–14:50	►SaB01-2	16:20–16:40
	n for the Backward-evolving Quantum Stat			nization of Microgrids Considering Carbon Capture
cernina A Monitored C	_		and User Contribution	

and User Contribution

cerning A Monitored Qubit

Huang, Xuan

Zhang, Baicheng	Liaoning Technical Univ.	Wang, Jianyong	Sichuan Univ
Zhang, Shuaibo	Liaoning Technical Univ.	▶ SaB02-5	17:20–17:4
Luan, Meng	Southeast Univ.		tion on Emission Computed Tomography wit
SaB01-3	16:40–17:00	NmODE	with on Emission Computed Tomography with
		-	Olaharan Hal
Mechanism Feature Fusi	ferent Terrains with IMUs Based on Attention ion Method	Zhang, Zeao Guo, Quan	Sichuan Uni Sichuan Uni
Yan, Mengxue	Linyi Univ.	► SaB02-6	17:40–18:0
Guo, Ming	Linyi Univ.		diction for Intensity-modulated Radiation The
Sun, Jianqiang	Linyi Univ.	apy by Leveraging NmOD	•
Qiu, Jianlong	Linyi Univ.		
Chen, Xiangyong	Linyi Univ.	Tan, Xiangjie	Sichuan Uni
, .		Niu, Hao	Sichuan Uni
SaB01-4	17:00–17:20	Hu, Junjie	Sichuan Uni
Simulating A Complex (	Giant System: A Case Study on Yellow River	Si, Pilei	Henan Provincial People Hospit
Basin		SaB03	16:00-18:00
	Key Laboratory of Water Management & Water		To.00—To.00 <sup>単分在上門</sup> Computation and its Applications
Sec	curity for Yellow River Basin of Ministry of Water		
	Resources (Under Construction)	Chair: Chen, Liangming	Southern Univ. of Science and Technolog
Zhang, Yuansheng	North China Univ. of Water Resources &	Co-Chair: Wang, Lidan	Southwest Uni
	Electric Power	► SaB03-1	16:00–16:2
Jin, Xin	Yellow River Engineering Consulting Co. Ltd	Spatio-temporal Neural N	Network with Contrastive Learning for Vehic
Zong, Hucheng	Yellow River Engineering Consulting Co.Ltd	Trajectory Prediction	
Wang, Dongfan	Yellow River Engineering Consulting Co., Ltd	Ĺi, Jiufa	Southwest Univ
		Duan, Shukai	Southwest Uni
Liang, Guojie	Yellow River Engineering Consulting Co. Ltd	Wang, Lidan	Southwest Uni
►SaB01-5	17:20–17:40		
Reinforcement Learning	with Hierarchical Graph Structure for Flexible	► SaB03-2	16:20–16:4
Job Shop Scheduling			tor Networks for Few-shot Image Classificatio
Zhang, Linli	Shanghai Jiao Tong Univ.	Dou, Quansheng	Shandong Tech. & Business Uni
Li, Dewei	Shanghai Jiao Tong Univ.	Li, Xiujuan	Shandong Tech. & Business Uni
►SaB01-6	17:40–18:00	Tang, Huanling	Dalian Maritime Uni
		Liu, Yanchao	Shandong Tech. & Business Uni
-	echnologies of Parallel Dispatching System for	Zhou, Liyuan	Shandong Tech. & Business Uni
Railway Technical Opera		•	16:40–17:0
Xiong, Gang	Inst. of Automation, Chinese Acad. of Sci.	► SaB03-3	
Yang, Donghu	Univ. of Chinese Acad. of Sci.		ctive Approach for Accurate Face Mask Wea
Xu, Wei	China Acad. of Railway Sci.	ing Detection in Complex	
Li, Runmei	Beijing Jiaotong Univ.	Cai, Guohui	Southwest Minzu Uni
Chen, Shichao	Inst. of Automation Chinese Acad. of Sci.	Cai, Ying	Southwest Minzu Unit
Bing, Song	Chinese Acad. of Sci.	Yang, Xiaoling	Chengdu Normal Uni
Dong, Xisong	Inst. of Automation, Chinese Acad. of Sci.	Xu, Yong	Southwest Minzu Univ
Zhu, Fenghua	Inst. of Automation, Chinese Acad. of Sci.	Luo, Weilin	Southwest Minzu Uni
	<u> </u>	Tan, Shengbo	Southwest Minzu Univ
SaB02	16:00-18:00	-	17:00–17:2
	and Applications of nmODE (1)	► SaB03-4	
Organizer: Zhang, Lei	Sichuan Univ.		und Welding Joints Based on PCA and In
Organizer: Guo, Quan	Sichuan Univ.	proved Adaptive PSO-SV	
Organizer: Zhou, Yao	Sichuan Univ.	Xu, Zijun	Harbin Inst. of Tech. Shenzhe
Chair: Guo, Quan	Sichuan Univ.	Li, Yuxiang	Harbin Inst. of Tech. Shenzhe
Co-Chair: Zhou, Yao	Sichuan Univ.	Ye, Shuyuan	Harbin Inst. of Tech. Shenzhe
•		Liang, Jiayang	Harbin Inst. of Tech., Shenzhe
SaB02-1	16:00–16:20	Long, Zhili	Harbin Inst. of Tech. Shenzhe
	ation Using Discretized NmODE	► SaB03-5	17:20–17:4
He, Quansong	Sichuan Univ.		d Programming Framework for Rapid Trainir
He, Tao	Sichuan Univ.		i i rogramming i ramework for mapid framin
Zhang, Yi	Sichuan Univ.	SNNs Ware Vueber	Unity of Florings Col. 9 Tools 1011
►SaB02-2	16:20-16:40	Wang, Yuchen	Univ. of Electronic Sci. & Tech. of Chin
	tworks with Neural Memory Ordinary Differential	Xue, Lang	Univ. of Electronic Sci. & Tech. of Chin
Equations		Lu, Chengzhuo	Univ. of Electronic Sci. & Tech. of Chir
Liu, Yixuan	Sichuan Univ.	Yi, Bingyan	Univ. of Electronic Sci. & Tech. of Chir
•		Qing, Hongyu	Univ. of Electronic Sci. & Tech. of Chir
Chen, Yuanyuan	Sichuan Univ.	Qu, Hong	Univ. of Electronic Sci. & Tech. of Chir
►SaB02-3	16:40–17:00	▶ SaB03-6	17:40–18:0
An Experimental Study of	of NmODE in Recognizing Endoscopic Submu-		
cosal Dissection Workflo	W	Hardware Implementation	
Huang, Kaide	Sichuan Univ.	Chen, Yi	Univ. of Electronic Sci. & Tech. of Chir
Yuan, Xianglei	West China Hospital of Sichuan Univ.	Liu, Hanwen	Univ. of Electronic Sci. & Tech. of Chir
Liu, Ruide	West China Hospital of Sichuan Univ.	Zhang, Enqi	Univ. of Electronic Sci. & Tech. of Chir
·	·	Qu, Hong	Univ. of Electronic Sci. & Tech. of Chir
Zhou, Yao	Sichuan Univ.	Zhang, Yi	Sichuan Uni
Bing, Hu	West China Hospital of Sichuan Univ.		
Zhang, Yi	Sichuan Univ.	SaB04	16:00-18:00
SaB02-4	17:00–17:20		g, Evolution and Computation
	rk for Coronary Artery Segmentation in Comput-	Chair: Liu, Tao S	Southern University of Science and Technolog
ed Tomography Angiogra		Co-Chair: Zhong, Jinghui	South China Univ. of Tec
	Sichuan Univ.	► SaB04-1	16:00–16:2
Zeng, Jianda			
Jiang, Weili	Sichuan Univ.		Hyper-heuristic Approach for Automatic Airpo
Li, Yiming	West China Hospital, Sichuan Univ.	Gate Assignment Problem	
Niu, Hao	Sichuan Univ.	Wu, Jiankai	South China Univ. of Tec
Huang, Xuan	Capital Medical Univ.	Xie. Shichana	G

Xie, Shichang

Capital Medical Univ.

Technical Program CSIS-IAC 2023

Dong, Junlan South China Univ. of Tech. Zhang, Naizong Northwestern Polytechnical Univ. Jiang, Hongru Northwestern Polytechnical Univ. Zhong, Jinghui South China Univ. of Tech. Li, Jiaxuan Northwestern Polytechnical Univ. ► SaB04-2 16:20-16:40 Fan, Quan-Yong Northwestern Polytechnical Univ. Recognition of Masked Facial Expressions Based on Convolutional Neural Networks and Data Augmentation SaB06 16:00-18:00 百合厅 Zhang, Xiao Univ. of Chinese Acad. of Sci. Special Session: Dynamic Neural Learning, Optimal Control and Intelli-Liu, Yonggang Inst. of Psychology, Chinese Acad. of Sci.; Univ. of gent Robots (2) Chinese Acad. of Sci. Organizer: Zhang, Zhijun South China Univ. of Tech. Chinese Acad. of Sci. Zhao, Ke Organizer: Li, Weibing Sun Yat-sen Univ. Organizer: Guo, Dongsheng Hainan Univ. ► SaB04-3 16:40-17:00 Organizer: Kang, Wenxiong South China Univ. of Tech. A CNN-based Automatic Detection Method for Tunnel Lining Internal De-Organizer: Xiao, Lin Hunan Normal Univ. fect Using Ground Penetrating Radar Chair: Zhang, Zhijun South China Univ. of Tech. Yang, Tong Kunming Univ. of Sci. & Tech. Co-Chair: Guo, Dongsheng Hainan Univ. Tang, Qingjingyi Shijiazhuang Tiedao Univ. ► SaB06-1 Zhang, Guangcai Kunming Univ. of Sci. & Tech. 16:00-16:20 Kunming Univ. of Sci. & Tech. A Support Vector Machine Based on Neural Dynamics Approach for Long, Sihui Bearing Fault Classification ► SaB04-4 17:00-17:20 Gan, Zirun South China Univ. of Tech. A Deep Learning-based Flight Turnaround Record System Guangdong Univ. of Petrochemical Tech. Zhang, Qinghua Ran Jielong South China Univ. of Tech. South China Univ. of Tech. Zhang, Zhijun Wan, Hao South China Univ. of Tech. South China Univ. of Tech. ► SaB06-2 16:20-16:40 Wenxiao, Tang Kang, Wenxiong South China Univ. of Tech. Improved Zeroing Neural Network for Solving Time-Variant Linear Equation with Harmonic Noise ► SaB04-5 17:20-17:40 Zhang, Chan Hainan Univ. A Neighborhood-based Speciation Brain Storm Optimization with Evolu-Cang, Naimeng Hainan Univ. tion Strategy for Multimodal Optimization Chen, Li Hainan Univ. Cheng, Shi Shaanxi Normal Univ. Jia, Zehua Hainan Univ. ► SaB04-6 17:40-18:00 Xue, Shan South China Univ. of Tech. Recognition of Masked Facial Expressions Based on Transfer Learning Hainan Univ. Guo, Dongsheng and Data Augmentation 16:40-17:00 ► SaB06-3 Inst. of Psychology, Chinese Acad. of Sci.; Univ. of Liu, Yonggang Theoretics of Zhang Neurodynamics Models for Position-orientation Chinese Acad. of Sci. Control of Soft Continuum Robots from Kinematic Modeling to Noise Zhao, Ke Chinese Acad. of Sci. Suppression SaB05 16:00-18:00 Chen, Jiawei Sun Yat-sen Univ. Regular Session: Machine Learning and Autonomous Systems Yang, Min Sun Yat-Sen Univ. Chair: Wang, Shenquan Changchun Univ. of Tech. Hu, Haifeng Sun Yat-sen Univ. Northwestern Polytechnical Univ. Co-Chair: Fan, Quan-Yong Zhang, Yunong Sun Yat-sen Univ. ► SaB05-1 16:00-16:20 Tan, Ning Sun Yat-sen Univ. Latent Space Neural Architecture Search via LambdaNDCGloss-based ► SaB06-4 17:00-17:20 Listwise Ranker Heuristic Tubular Growth with Adaptive Voxel Filtering for Coronary Xiao, Songyi Guangdong Univ. of Tech. Artery Segmentation Zhao, Bo Beijing Normal Univ. Wang, Qin The Chinese Univ. of Hong Kong, Shenzhen Liu. Derona CASIA Cui. Hannah legualcare.org ► SaB05-2 16:20-16:40 Deng, Bingchen Shenzhen College of International Education Enhancing Real-time Strategy Games via Transformer Encoder with Han, Yatong Chinese Univ. of Hong Kong (Shen Zhen) Patch Embedding ► SaB06-5 17:20-17:40 Hu, Shaobo Beijing Univ. of Posts & Telecommunications Mass-Spring-Damping-based Tissue Deformation Modeling for Robotic Liu, Wei Beijing Univ. of Posts & Telecommunications Acupuncture ► SaB05-3 Liang, Hao Guangdong Univ. of Technology Synchronization in Finite Time for Nabla Discrete Fractional Delayed He, Zhaoshui Guangdong Univ. of Technology Gene Regulatory Networks Guo, Jing Guangdong Univ. of Technology Xu, Wanli Chongqing Jiaotong Univ. Wang, Xu Guangdong Univ. of Technology Yang, Xujun Chongging Jiaotong Univ. Lin, Zhijie Guangdong Univ. of Technology Song, Qiankun Chongqing Jiaotong Univ. Zhang, Liqiang Beijing Research Inst. of Automation for Machinery Chongqing Jiaotong Univ. Wang, Lu Chen, Xiaofeng Chongqing Jiaotong Univ. ► SaB06-6 17:40-18:00 ► SaB05-4 17:00-17:20 A Highly Precise and Lightweight Detection Model for Water and Oil Financial Time Series Prediction via Neural Ordinary Differential Equa-Leakage Detection tions Approach Wu, Weiming South China Univ. of Tech. Li, Jingsui Chongging Univ. of Posts & Telecommunications South China Univ. of Tech. Liu, Kun Zhu, Wei Chongqing Univ. of Posts & Telecommunications Shakeel, Muhammad Saad South China Univ. of Tech. Chen, Zhang Chongqing Univ. of Posts & Telecommunications Liao, Xiaochuan South China Univ. of Tech. Pei, Chao Chongqing Univ. of Posts & Telecommunications Zeng, Ming South China Univ. of Tech. ► SaB05-5 Kang, Wenxiong South China Univ. of Tech. 17:20-17:40 Subspace-based Fault Detection Using Performance Metrics Changchun Univ. of Tech. Poster Session SaPoster Meng, Di Oct. 21, 13:30-18:00 Yang, Dedong Changchun Univ. of Tech. 楼外廊 Zhang, Qi Changchun Univ. of Tech. Beijing Univ. of Aeronautics & Astronautics Wang, Shenguan Changchun Univ. of Tech. Chair: Wang, Zhuo Co-Chair: Song, Ruizhuo Univ. of Sci. & Tech. Beijing ► SaB05-6 17:40-18:00 Layered Reinforcement Learning Design for Safe Flight Control of UAV ⊳ SaPoster-01

Guo, Fangda

Northwestern Polytechnical Univ.

Robust Temperature Control for Water-Cooled PEM Fuel Cells

Zhejiang Univ.

in Urban Environments

Guo, Yue

Zhongyuan Univ. of Tech.

Beijing Instinute of Basic Medical Sci.

Chen, Jian

Sharma, Harsh Mohan

Liang, Li Beijing Inst. of Basic Medical Sci. ⊳ SaPoster-02 Dedicated Bus Arterial Coordination Control Based on Particle Swarm ⊳ SaPoster-13 Optimization A Dynamic Surrogate Gradient Function for Memristive Spiking Neural LDU Networks Shang, Chunlin Chen, Ai Southwest Univ. ⊳ SaPoster-03 Han, Fujun Southwest Univ. An Aircraft Trajectory Intelligent Prediction Scheme with Heading Chen, Tao Southwest Univ. Change Modeling Wang, Shu Southwest Univ. Beihang Univ. Zhang, Yige Duan, Shukai Southwest Univ. Zhang, Kun Beihang Univ. Wang, Lidan Southwest Univ. Nanyang Technological Univ. Zhao, Nanbin Luo, Shi Jie ⊳ SaPoster-14 Beihang Univ. Fuzzy PID Maglev Control Based on Adaptive Genetic Algorithm ⊳ SaPoster-04 Wang, Weilin Northeastern Univ. Anti-collision Warning of Offshore Wind Farm Based on Kalman Filter Yang, Dongsheng Northeastern Univ. Dai, Cheng Dalian Maritime Univ. Northeastern Univ. Li, Haoran Xie, Haibo Dalian Maritime Univ. Bai. Weiwei Dalian Maritime Univ. ⊳ SaPoster-15 Fixed Time Synchronization of Competitive Neural Networks with Desta-⊳ SaPoster-05 15:10-15:30 bilizina Impulsive Effects Abnormal Detection of Heavy Haul Train Air Whistle Based on MFCC You, Jingjing Xinjiang Univ. and Lightweight Training Abdurahman, Abdujelil Xinjiang Univ. Guoneng Rolling Stock Branch of Guoneng Wang, Zhiwei Du, Jiahao Southwest Jiaotong Univ. ⊳ SaPoster-16 Liu. Jiahui Southwest Jiaotong Univ. An Iron Ore Identification Method Based on Improved Bilinear Network Yang, Peican Southwest Jiaotong Univ. Wang, Jiyang Shenyang Univ. of Tech. Na, Qin Southwest Jiaotong Univ. Cui, Yang Shenyang Univ. of Tech. Huang, Deqing Southwest Jiaotong Univ. Lv, Yiming Shenyang Univ. of Tech. ⊳ SaPoster-06 ⊳ SaPoster-17 Image Encryption and Hiding Algorithm Based on Hyper Chaotic System Fuzzy Twin Support Vector Machine Based on Smooth Pinball Loss and Compressed Sensing Zheng, Zaihong Univ. of Sci. & Tech. Liaoning Liu, Zhiqiang Xi'an Univ. of Tech. Lu, Peng Univ. of Sci. & Tech. Liaoning Xi'an Univ. of Tech. Liu, Han Cai, Hongbin Univ. of Sci. & Tech. Liaoning Li, Ping Liaoning Shihua Univ. ⊳ SaPoster-07 Some Discussions on the Relation Between  $H_2/H_\infty$  Control and Nash ⊳ SaPoster-18 Game for Infinite MJSSs Optimized Design of An Advanced Control Scheme for Energy-Efficient Shandong Univ. of Sci. & Tech. Liu, Yueying Solution Dehumidification Air Conditioning Systems Wang, Zhen Shandong Univ. of Sci. & Tech. Li, Zhe Beihang Univ. Wang, Zhuo Beijing Univ. of Aeronautics & Astronautics ⊳ SaPoster-08 Spectral Signal Denoising Algorithm Based on Modified Singular Spec-⊳ SaPoster-19 trum Analysis Practical Fixed-time Tracking Control of Multi-agent Systems under Dy-Shao, Xiangxin Changchun Univ. of Tech. namic Event-triggered Mechanism Xing, Ruifeng Changchun Univ. of Tech. Wang, Yajie Beijing Information Sci. & Tech. Univ. Li, Jiacheng Changchun Univ. of Tech. Yu, Di Beijing Information Sci. & Tech. Univ. Jiang, Yongxiang Changchun Univ. of Tech. ⊳ SaPoster-20 Jiang, Hong Changchun Univ. of Tech. Monocular 3D Ray-aware RPN for Roadside View Object Detection ⊳ SaPoster-09 Zhang, Caiji Chinese Acad. of Sci. Infrared Face Detection Based on Data Enhancement and Its Application Tian, Bin Chinese Acad. of Sci. **CSGES Operation Management Branch Company** Zhou, Yuquan Yang, Sun Hebei Univ. of Engineering Guangzhou, China Waytous Zhang, Rui He, Weijing Qingyuan Pumped Storage Power Generation Co,. ⊳ SaPoster-21 Functional Brain Subnetwork Analysis in Alzheimer's Disease and Mild Xie, Guodong **CSGES Operation Management Branch Company** Cognitive Impairment Guangzhou, China Huang, He Hangzhou Dianzi Univ. Liu, Xin CSGES Operation Management Branch Company Sheng, Jinhua Hangzhou Dianzi Univ. Guangzhou, China Pu. Huang Hangzhou Dianzi Univ. Guo, Zhendong Tianjin Univ. Yang, Xiaofan Hangzhou Dianzi Univ. Wang, Jialei Hangzhou Dianzi Univ. ⊳ SaPoster-10 Hangzhou Dianzi Univ. Ying, Ziyi Underwater Positioning Method Based on Sonar Image Matching with ⊳ SaPoster-22 Pseudoinverse Learning Liu, Pandi Zhengzhou Univ. A Fire Detection Algorithm Based on Adaptive Region Decoupling Distil-Liu, Binghong Zhenazhou Univ. lation Wang, Hua Zhengzhou Univ. Song, Xin Northeastern Univ. at Qinhuangdao Northeastern Univ. Li, Jiaxin Zhengzhou Univ. Wei, Zhenning Northeastern Univ. Wang, Ke Zhengzhou Univ. Zhang, Jiadong Gao, Erhao Northeastern Univ. ⊳ SaPoster-11

Zhejiang Univ.

Zhejiang Univ.

Wang, Lei

Wang, Lubin

Pioneer Learning: Discovering Blind Spots of Transferred Rich Visual

Multi-scale Channel Attention Inspiring Multi-Task Network via Self-

Qingdao Univ.

Knowledge for Skin Lesion Recognition

supervised Learning for Violence Recognition

Deng, Xiaodan

⊳ SaPoster-24

Implementation of Multi-dimensional Power Big Data Visualization Plat-

Bioinspired Motion Information Guided Tracking Algorithm for Small Tar-

School of Electrical & Electronic Engineering

Zhongyuan Univ. of Tech.

form Based on Python

gets in Infrared Images

Li, Dongqi

Zhang, Xun

⊳ SaPoster-12

**Technical Program CSIS-IAC 2023** 

Song, Xin Northeastern Univ. at Qinhuangdao Northeastern Univ. Li, Suyuan Zhao, Zhongcong Northeastern Univ. Wang, Xiaoqi Northeastern Univ. Liu, Penghui Northeastern Univ. Xie, Zhigang Yanshan Univ.

⊳ SaPoster-25

Reinforcement Learning-Based Adaptive Control of A Pool-Type Heating

Nuclear Reactor

Ren, Xin China Inst. of Atomic Energy Duan, Tianying China Inst. of Atomic Energy China Inst. of Atomic Energy Jia, Yuwen Zhang, Le China Inst. of Atomic Energy Liu, Shihang China Inst. of Atomic Energy

⊳ SaPoster-26

Sampled-data Iterative Learning Control for Linear Parabolic Distributed Parameter Systems with Event-triggered Strategy

Guangxi Univ. of Sci. & Tech. Dai, Xisheng Guangxi Univ. of Sci. & Tech. Zhou, Rusheng Guangxi Univ. of Sci. & Tech.

⊳ SaPoster-27

A Neural Network Model of Self-Organized Learning in Hippocampus-

Entorhinal Cortex Spatial Representations

Liu, Shujia Beijing Normal Univ. Si, Bailu Beijing Normal Univ.

⊳ SaPoster-28

Development and Test of A Cathodic Protection Testing System for Buried Pipeline

Shenyang Acad. of Instrumentation Sci. CO.,LTD

⊳ SaPoster-29

Zhu, Haibo

Odor Plume Direction Estimation via Gas Sensor Array

Li, Jinsheng Tianjin Univ. of Tech. & Education Tianjin Univ. of Tech. & Education Li, Ji-Gong

⊳ SaPoster-30

Quantization Tracking Control Based on Disturbance Observer for the Unmanned Aerial Vehicles

Chen, Xingru Univ. of Sci. & Tech. Beijing He, Xiuyu Univ. of Sci. & Tech. Beijing Wang, Jingyuan Univ. of Sci. & Tech. Beijing Li, Guang Queen Mary, Univ. of London He, Wei Univ. of Sci. & Tech. Beijing

⊳ SaPoster-31

Modified U-Net Architecture for Diabetic Retinopathy Fundus Image Seg-

mentation

Wang, Shubin Sichuan Univ. Sichuan Univ. Chen, Yuanyuan Zhang, Yi Sichuan Univ.

⊳ SaPoster-32

Task-oriented Sequential Pose Motion Primitives

Wuhan Univ. of Tech. Wang, Nan Wuhan Univ. of Tech.

## Sunday, Oct. 22, 2023

		Zhang, Wenjie	Southwest Petroleum Univ
SuA01	13:30-15:30 牡丹厅	Cai, Mengxi	Sichuan Univ
Special Session: Learning	ng Control and Optimization for Complex Sys-	Zhou, Yao	Sichuan Univ
tems		► SuA02-4	14:30–14:50
Organizer: Wei, Qinglai	Institue of Automation, Chinese Acad. of Sci.		coder and Feature Adaptation Framework for Breas
Organizer: Lv, Yisheng	Institue of Automation, Chinese Acad. of Sci.	MRI Segmentation	out and realting realities realities and real Break
Organizer: Song, Ruizhuo	o Univ. of Sci. & Tech. Beijing	Xue, Hong Wei	Department of Medical Imaging, Tongji Hospital
Organizer: Yang, Xiong	Tianjin Univ.	Ade, Hong wei	Tongji Univ. , Shangha
Chair: Wei, Qinglai	Institue of Automation, Chinese Acad. of Sci.	71 17	
Co-Chair: Lv, Yisheng	Institue of Automation, Chinese Acad. of Sci.	Zhong, Ke	Sichuan Univ
SuA01-1	13:30–13:50	Wu, Xiao Fen	Department of Medical Imaging, Tongji Hospital
	Pancreas Glucose Control Method		Tongji Univ., Shangha
· ·		Gao, Yan	Department of Medical Imaging, Tongji Hospital
Zhou, Ying	Univ. of Sci. & Tech. Beijing		Tongji Univ., Shangha
Song, Ruizhuo	Univ. of Sci. & Tech. Beijing	Wu, Yujiao	The Commonwealth Scientific & Industria
Xia, Lina	Univ. of Sci. & Tech. Beijing	rra, rajiao	Research Organisatio
SuA01-2	13:50–14:10	Zhang, Lei	Sichuan Univ
Reinforcement Learning	for Dynamic Event-Based Control of Intercon-	-	
nected Nonlinear System	'S	Qian, Guangwu	Sichuan Univ
Yang, Xiong	Tianjin Univ.	Wang, Pei Jun	Department of Medical Imaging, Tongji Hospital
Zhao, Bo	Beijing Normal Univ.		Tongji Univ., Shangha
	14:10–14:30	► SuA02-5	14:50–15:1
SuA01-3		Low-dose Cone Bea	am CT Reconstruction by Deep Neural Network fo
•	Encoder for Vehicle Trajectory Prediction Using	Image-guided Radia	
the Diffusion Model			Sichuan Univ
Yao, Yueyang	Chinese Acad. of Sci.	Wu, Tianxiong	
Liu, Yahui	Chinese Acad. of Sci.	Zhou, Chuhao	Sichuan Uni
Dai, Xingyuan	Chinese Acad. of Sci.	Gao, Xinrui	West China Hospital of Sichuan Uni
Chen, Shichao	Inst. of Automation Chinese Acad. of Sci.	Zhong, Renming	West China Hospita
Lv, Yisheng	Institue of Automation, Chinese Acad. of Sci.	Xu, Hongyu	363 Hospita
		Song, Ying	West China Hospita
SuA01-4	14:30–14:50	► SuA02-6	15:10–15:3
	st Optimal Tracking via Adaptive Dynamic Pro-		upervised Fetal Brain MRI Segmentation wit
gramming		•	
Wei, Qinglai	Inst. of Automation	•	Virtual Adversarial Training
Jiao, Shanshan	Macau Univ. of Sci. & Tech.	Zhang, Zhao	China Sichuan Uni
SuA01-5	14:50–15:10	Huang, Wei	China Sichuan Univ
A Survey on Smart Grid a		Wei, Xiaosong	China Sichuan Univ
•	• •	She, Jiayan	Sichuan Univ
Zhao, Yufan	Univ. of Sci. & Tech. Beijing	Huang, Haiying	College of Computer Sci., Sichuan Univ
Song, Ruizhuo	Univ. of Sci. & Tech. Beijing	Ning, Gang	West China Second Univ. Hospital, Sichuan Univ
Xia, Lina	Univ. of Sci. & Tech. Beijing	Zhang, Lei	Sichuan Univ
SuA01-6	15:10–15:30	•	
Spatial Temporal Graph 7	Transformers for Probabilistic Load Forecasting	► SuA02-7	15:30–15:5
Wei, Qinglai	Inst. of Automation	-	ic Hounsfield Unit Augmentation for Clinical Targe
C:: 402	13:30-15:50	Volume Segmentation	
SuA02		Li, Guiyuan	Sichuan Univ
· · · · · · · · · · · · · · · · · · ·	and Applications of nmODE (2)	Niu, Hao	Sichuan Univ
Organizer: Zhang, Lei	Sichuan Univ.	Hu, Junjie	Sichuan Univ
Organizer: Guo, Quan	Sichuan Univ.	Wan, Meihua	West China Hospital of Sichuan Univ
Organizer: Zhou, Yao	Sichuan Univ.		
Chair: Guo, Quan	Sichuan Univ.	SuA03	13:30-15:30 簕杜鹃厅
			47 12.1377
Co-Chair: Zhou, Yao		Special Session: Ac	
Co-Chair: Zhou, Yao	Sichuan Univ.	Special Session: Actems	
SuA02-1	Sichuan Univ. 13:30–13:50	tems	dvanced Conputation and Control in Complex Sys
SuA02-1 <i>LC2R-ViT:</i> Long-range Cr	Sichuan Univ.	tems Organizer: Su, Hang	dvanced Conputation and Control in Complex Systems
SuA02-1 LC2R-ViT: Long-range Cr age Classification	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im-	tems Organizer: Su, Hang Organizer: Mu, Yunfe	dvanced Conputation and Control in Complex Systems  Northeastern Uni Northeastern Uni
SuA02-1 LC2R-ViT: Long-range Cr age Classification Zhang, Zhenwei	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im- Sichuan Univ.	tems Organizer: Su, Hang Organizer: Mu, Yunfo Chair: Su, Hanguan	dvanced Conputation and Control in Complex Systems  Juang Northeastern Uni Picture Northeastern Uni Northeastern Uni
SuA02-1 LC2R-ViT: Long-range Cr age Classification	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im-	tems Organizer: Su, Hang Organizer: Mu, Yunfo Chair: Su, Hanguano Co-Chair: Mu, Yunfe	dvanced Conputation and Control in Complex Systems  Juang Northeastern United Northeas
SuA02-1 LC2R-ViT: Long-range Cr age Classification Zhang, Zhenwei	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im- Sichuan Univ.	tems Organizer: Su, Hang Organizer: Mu, Yunfe Chair: Su, Hanguang Co-Chair: Mu, Yunfe SuA03-1	Juang Northeastern Uni By Northeastern Uni
SuA02-1 LC2R-ViT: Long-range Cr age Classification Zhang, Zhenwei Zhang, Lei	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im- Sichuan Univ. Sichuan Univ.	tems Organizer: Su, Hang Organizer: Mu, Yunfe Chair: Su, Hanguang Co-Chair: Mu, Yunfe SuA03-1	dvanced Conputation and Control in Complex Systems  Juang Northeastern Uni Northeastern Uni Northeastern Uni Northeastern Uni 13:30–13:5
SuA02-1 LC2R-ViT: Long-range Cr age Classification Zhang, Zhenwei Zhang, Lei Wang, Lituan Zhong, Ke	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im- Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ.	tems Organizer: Su, Hang Organizer: Mu, Yunfe Chair: Su, Hanguang Co-Chair: Mu, Yunfe SuA03-1	dvanced Conputation and Control in Complex Systems  Juang Northeastern Uni Northeastern Uni Northeastern Uni Northeastern Uni 13:30–13:5
SuA02-1 LC2R-ViT: Long-range Cr age Classification Zhang, Zhenwei Zhang, Lei Wang, Lituan Zhong, Ke Huang, Haiying	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im- Sichuan Univ. Sichuan Univ. SIchuan Univ. Sichuan Univ. Sichuan Univ. College of Computer Sci., Sichuan Univ.	tems Organizer: Su, Hang Organizer: Mu, Yunfe Chair: Su, Hanguang Co-Chair: Mu, Yunfe ► SuA03-1 Vertical Traffic Schee	Juang Northeastern Uni Northeastern Uni Northeastern Uni Northeastern Uni Northeastern Uni Northeastern Uni 13:30–13:5  duling Control Method Based on Dual Fuzzy Neur
SuA02-1 LC2R-ViT: Long-range Cr age Classification Zhang, Zhenwei Zhang, Lei Wang, Lituan Zhong, Ke Huang, Haiying SuA02-2	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im- Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. College of Computer Sci., Sichuan Univ. 13:50–14:10	tems Organizer: Su, Hang Organizer: Mu, Yunfe Chair: Su, Hanguang Co-Chair: Mu, Yunfe ► SuA03-1 Vertical Traffic Scheo Network	dvanced Conputation and Control in Complex Systems  young Northeastern United Northeas
SuA02-1 LC2R-ViT: Long-range Cr age Classification Zhang, Zhenwei Zhang, Lei Wang, Lituan Zhong, Ke Huang, Haiying SuA02-2 Universal Medical Imag	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im- Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. College of Computer Sci., Sichuan Univ. 13:50–14:10 re Segmentation with Task-Specific Prompt-	tems Organizer: Su, Hang Organizer: Mu, Yunfe Chair: Su, Hanguang Co-Chair: Mu, Yunfe ► SuA03-1 Vertical Traffic Scheen Network Sun, Xinhao An, Siqi	dvanced Conputation and Control in Complex Systems  plang Northeastern United Northeas
SuA02-1 LC2R-ViT: Long-range Cr age Classification Zhang, Zhenwei Zhang, Lei Wang, Lituan Zhong, Ke Huang, Haiying SuA02-2 Universal Medical Imag Guided Transformer Mode	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im- Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. College of Computer Sci., Sichuan Univ. 13:50–14:10 Te Segmentation with Task-Specific Promptel	tems Organizer: Su, Hang Organizer: Mu, Yunfe Chair: Su, Hanguang Co-Chair: Mu, Yunfe  ▶ SuA03-1 Vertical Traffic Scheo Network Sun, Xinhao An, Siqi Gao, Xiaoting	dvanced Conputation and Control in Complex Systems  plang Northeastern United Northeas
SuA02-1 LC2R-ViT: Long-range Cr age Classification Zhang, Zhenwei Zhang, Lei Wang, Lituan Zhong, Ke Huang, Haiying SuA02-2 Universal Medical Imag Guided Transformer Mode Luo, Weilin	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im- Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. College of Computer Sci., Sichuan Univ. 13:50–14:10 re Segmentation with Task-Specific Promptel Southwest Minzu Univ.	tems Organizer: Su, Hang Organizer: Mu, Yunfe Chair: Su, Hanguang Co-Chair: Mu, Yunfe ► SuA03-1 Vertical Traffic Scheo Network Sun, Xinhao An, Siqi Gao, Xiaoting Cui, Enchang	dvanced Conputation and Control in Complex Systems  puang Northeastern United Northeas
SuA02-1 LC2R-ViT: Long-range Cr age Classification Zhang, Zhenwei Zhang, Lei Wang, Lituan Zhong, Ke Huang, Haiying SuA02-2 Universal Medical Imag Guided Transformer Mode	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im- Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. College of Computer Sci., Sichuan Univ. 13:50–14:10 Te Segmentation with Task-Specific Promptel	tems Organizer: Su, Hang Organizer: Mu, Yunfe Chair: Su, Hanguang Co-Chair: Mu, Yunfe  ► SuA03-1  Vertical Traffic Scheen Network Sun, Xinhao An, Siqi Gao, Xiaoting Cui, Enchang  ► SuA03-2	dvanced Conputation and Control in Complex Systems  guang Northeastern United Northeas
SuA02-1 LC2R-ViT: Long-range Cr age Classification Zhang, Zhenwei Zhang, Lei Wang, Lituan Zhong, Ke Huang, Haiying SuA02-2 Universal Medical Imag Guided Transformer Mode Luo, Weilin	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im- Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. College of Computer Sci., Sichuan Univ. 13:50–14:10 re Segmentation with Task-Specific Promptel Southwest Minzu Univ.	tems Organizer: Su, Hang Organizer: Mu, Yunfe Chair: Su, Hanguang Co-Chair: Mu, Yunfe  ► SuA03-1  Vertical Traffic Scheen Network Sun, Xinhao An, Siqi Gao, Xiaoting Cui, Enchang  ► SuA03-2	dvanced Conputation and Control in Complex Systems  guang Northeastern United Northeas
SuA02-1 LC2R-ViT: Long-range Cr age Classification Zhang, Zhenwei Zhang, Lei Wang, Lituan Zhong, Ke Huang, Haiying SuA02-2 Universal Medical Imag Guided Transformer Mode Luo, Weilin Niu, Hao	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im- Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. 13:50–14:10 re Segmentation with Task-Specific Promptel Southwest Minzu Univ. Sichuan Univ.	tems Organizer: Su, Hang Organizer: Mu, Yunfe Chair: Su, Hanguang Co-Chair: Mu, Yunfe  ► SuA03-1  Vertical Traffic Scheen Network Sun, Xinhao An, Siqi Gao, Xiaoting Cui, Enchang  ► SuA03-2	dvanced Conputation and Control in Complex Syluang Northeastern United Northeastern Un
SuA02-1 LC2R-ViT: Long-range Crage Classification Zhang, Zhenwei Zhang, Lei Wang, Lituan Zhong, Ke Huang, Haiying SuA02-2 Universal Medical Imag Guided Transformer Mode Luo, Weilin Niu, Hao Hu, Junjie Cai, Ying	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im- Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. 13:50–14:10 re Segmentation with Task-Specific Promptel Southwest Minzu Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Southwest Minzu Univ.	tems Organizer: Su, Hang Organizer: Mu, Yunfe Chair: Su, Hanguang Co-Chair: Mu, Yunfe  ► SuA03-1  Vertical Traffic Scheen Network Sun, Xinhao An, Siqi Gao, Xiaoting Cui, Enchang  ► SuA03-2  Optimization and Se	dvanced Conputation and Control in Complex Systems of the Systems
SuA02-1  LC2R-ViT: Long-range Cr age Classification  Zhang, Zhenwei Zhang, Lei Wang, Lituan Zhong, Ke Huang, Haiying  SuA02-2  Universal Medical Imag Guided Transformer Model Luo, Weilin Niu, Hao Hu, Junjie Cai, Ying Daji, Ergu	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im- Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. 13:50–14:10 Task-Specific Promptel  Southwest Minzu Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Southwest Minzu Univ. Southwest Minzu Univ. Southwest Minzu Univ.	tems Organizer: Su, Hang Organizer: Mu, Yunfe Chair: Su, Hanguang Co-Chair: Mu, Yunfe  ► SuA03-1 Vertical Traffic Scheo Network Sun, Xinhao An, Siqi Gao, Xiaoting Cui, Enchang  ► SuA03-2 Optimization and Se System	dvanced Conputation and Control in Complex Systems of the Systems
SuA02-1  LC2R-ViT: Long-range Cr age Classification  Zhang, Zhenwei Zhang, Lei Wang, Lituan Zhong, Ke Huang, Haiying  SuA02-2  Universal Medical Imag Guided Transformer Model Luo, Weilin Niu, Hao Hu, Junjie Cai, Ying Daji, Ergu Lan, Haitao	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im- Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. 13:50–14:10 Task-Specific Promptel Southwest Minzu Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Southwest Minzu Univ. Southwest Minzu Univ. Southwest Minzu Univ. Southwest Minzu Univ. Sichuan Provincial People's Hospital	tems Organizer: Su, Hang Organizer: Mu, Yunfe Chair: Su, Hanguang Co-Chair: Mu, Yunfe  ► SuA03-1 Vertical Traffic Scheo Network Sun, Xinhao An, Siqi Gao, Xiaoting Cui, Enchang  ► SuA03-2 Optimization and Ses System Li, Mengwen	dvanced Conputation and Control in Complex Systems of the Systems
SuA02-1  LC2R-ViT: Long-range Cr age Classification  Zhang, Zhenwei Zhang, Lei Wang, Lituan Zhong, Ke Huang, Haiying  SuA02-2  Universal Medical Imag Guided Transformer Model Luo, Weilin Niu, Hao Hu, Junjie Cai, Ying Daji, Ergu Lan, Haitao  SuA02-3	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im-  Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. College of Computer Sci., Sichuan Univ. 13:50–14:10 re Segmentation with Task-Specific Promptel  Southwest Minzu Univ. Sichuan Univ. Sichuan Univ. Southwest Minzu Univ. Southwest Minzu Univ. Southwest Minzu Univ. Southwest Minzu Univ. Sichuan Provincial People's Hospital 14:10–14:30	tems Organizer: Su, Hang Organizer: Mu, Yunfe Chair: Su, Hanguang Co-Chair: Mu, Yunfe  ► SuA03-1 Vertical Traffic Scheo Network Sun, Xinhao An, Siqi Gao, Xiaoting Cui, Enchang  ► SuA03-2 Optimization and Security System Li, Mengwen	dvanced Conputation and Control in Complex Systems of the American Systems of
SuA02-1  LC2R-ViT: Long-range Cr age Classification  Zhang, Zhenwei Zhang, Lei Wang, Lituan Zhong, Ke Huang, Haiying  SuA02-2  Universal Medical Imag Guided Transformer Model Luo, Weilin Niu, Hao Hu, Junjie Cai, Ying Daji, Ergu Lan, Haitao  SuA02-3	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im- Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. 13:50–14:10 Task-Specific Promptel Southwest Minzu Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Southwest Minzu Univ. Southwest Minzu Univ. Southwest Minzu Univ. Southwest Minzu Univ. Sichuan Provincial People's Hospital	tems Organizer: Su, Hang Organizer: Mu, Yunfe Chair: Su, Hanguang Co-Chair: Mu, Yunfe  ► SuA03-1 Vertical Traffic Scheo Network Sun, Xinhao An, Siqi Gao, Xiaoting Cui, Enchang  ► SuA03-2 Optimization and Ses System Li, Mengwen	dvanced Conputation and Control in Complex Systems  plang Northeastern United Northeas
SuA02-1  LC2R-ViT: Long-range Cr age Classification  Zhang, Zhenwei Zhang, Lei Wang, Lituan Zhong, Ke Huang, Haiying  SuA02-2  Universal Medical Imag Guided Transformer Model Luo, Weilin Niu, Hao Hu, Junjie Cai, Ying Daji, Ergu Lan, Haitao  SuA02-3	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im-  Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. College of Computer Sci., Sichuan Univ. 13:50–14:10 re Segmentation with Task-Specific Promptel  Southwest Minzu Univ. Sichuan Univ. Sichuan Univ. Southwest Minzu Univ. Southwest Minzu Univ. Southwest Minzu Univ. Southwest Minzu Univ. Sichuan Provincial People's Hospital 14:10–14:30	tems Organizer: Su, Hang Organizer: Mu, Yunfe Chair: Su, Hanguang Co-Chair: Mu, Yunfe  ► SuA03-1 Vertical Traffic Scheo Network Sun, Xinhao An, Siqi Gao, Xiaoting Cui, Enchang  ► SuA03-2 Optimization and Security System Li, Mengwen	dvanced Conputation and Control in Complex Systems of the American Systems of
SuA02-1  LC2R-ViT: Long-range Cr age Classification  Zhang, Zhenwei Zhang, Lei Wang, Lituan Zhong, Ke Huang, Haiying  SuA02-2  Universal Medical Imag Guided Transformer Mode Luo, Weilin Niu, Hao Hu, Junjie Cai, Ying Daji, Ergu Lan, Haitao  SuA02-3  MTCGAN: Mini CycleGA	Sichuan Univ. 13:30–13:50 ross-residual Vision Transformer for Medical Im-  Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. College of Computer Sci., Sichuan Univ. 13:50–14:10 re Segmentation with Task-Specific Promptel  Southwest Minzu Univ. Sichuan Univ. Sichuan Univ. Southwest Minzu Univ. Southwest Minzu Univ. Southwest Minzu Univ. Southwest Minzu Univ. Sichuan Provincial People's Hospital 14:10–14:30	tems Organizer: Su, Hang Organizer: Mu, Yunfe Chair: Su, Hanguang Co-Chair: Mu, Yunfe  ► SuA03-1 Vertical Traffic Scheo Network Sun, Xinhao An, Siqi Gao, Xiaoting Cui, Enchang  ► SuA03-2 Optimization and Security System Li, Mengwen	dvanced Conputation and Control in Complex Systems  Juang Northeastern University  Northeastern University  Northeastern University

Technical Program CSIS-IAC 2023

► SuA04-6 Wang, Zhongwei Jiangsu Frontier Electric Tech. Co.,Ltd 15:10-15:30 Self-learning Sliding Mode Control Based on Adaptive Dynamic Pro-China Electric Power Research Inst. Co., Ltd Wu, Nai Yue gramming for Nonholonomic Mobile Robots ► SuA03-3 14:10-14:30 Ma, Qingwen National Univ. of Defense Tech. Event-triggered Decentralized Guaranteed Cost Control for Interconnect-Zhang, Xinglong National Univ. of Defense Tech. ed Large-scale System Using Adaptive Dynamic Programming Xu, Xin National Univ. of Defence Tech. Shao, Zhi Shenyang Univ. of Tech. College of Aerospace Sci. & Engineering, National Yang, Yueneng Univ. of Tech. Shenyang Liang, Yuling Univ. of Defense Tech. Xing, Jin Univ. of Tech. Shenyang Su, Hanguang Northeastern Univ. Wu, Qi Shanghai Jiao Tong Univ. 14:30-14:50 ► SuA03-4 SuA05 13:30-15:30 紫荆厅 Event-based Adaptive Dynamic Programming for H∞ Control Problem of Regular Session: Learning and Intelligent Control Input-Constrained Nonlinear Systems with Its Application to Power Sys-Chair: Wang, Yonghua Guangdong University of Technology Co-Chair: Tan, Fuxiao Shanghai Maritime Univ. Liu. Fan Northeastern Univ. ► SuA05-1 13:30-13:50 Su, Hanguang Northeastern Univ. Control for Quality of the Separated Products of A Butylene-Butane Dis-Zong, Yi Technical Univ. of Denmark tillation Column Based on High Order Iterative Learning Control Li, Yushuai Univ. of Oslo Zhang, Xiumei Changchun Univ. of Tech. Jiang, He Northeastern Univ. Zhou, Kailong Changchun Univ. of Tech. ► SuA03-5 14:50-15:10 Li, Hui Changchun Univ. of Tech. Distributed State Estimation Design for Discrete-Time Interconnected Xia, Changlei Nanjing Forestry Univ. Singular Systems: A LMI Method Zhang, Ze Changchun Univ. of Tech. Mu, Yunfei Northeastern Univ. Changchun Univ. of Tech. Liu, Fangda Su, Hanguang Northeastern Univ. ► SuA05-2 13:50-14:10 Yang, Dongsheng Northeastern Univ. Command Filter-Based Adaptive Fault-Tolerant Controller Design for Zhang, Huaguang Northeastern Univ., China Nonstrict-Feedback Nonlinear Systems ► SuA03-6 15:10-15:30 Liu. Jianwei Chinese Acad. of Sci. Detecting Stealthy Attacks in Power Systems Based on Switching and Cui, Yang Univ. of Sci. & Tech. Liaoning Zonotopes Liu, Fengfeng Univ. of Sci. & Tech. Liaoning Wang, Shaodong Zheiiang Univ. Ao, Dongdong Univ. of Sci. & Tech. Liaoning Li, Chao Zhejiang Univ. Guo, Zhen Liaoning Univ. of Sci. & Tech. Yang, Qinmin Zhejiang Univ. ► SuA05-3 Meng, Wenchao Zhejiang Univ. Design and Experiment of A Portable Low-cost Digital Display Instru-Zhejiang Univ. Li, Yunpeng ment for Determining Meat Tenderness Beijing Polytechnic College Li, Yanlei SuA04 13:30-15:30 簕杜鹃厅Ⅲ Wang, Xiangwu Beijing Polytechnic College Regular Session: Adaptive Dynamic Programming and Reinforcement Beijing Polytechnic College Learning (ADPRL研讨会2) Yang, Zihao Bai, Mengyu Beijing Polytechnic College Chair: Luo, Yanhong Northeastern Univ. National Univ. of Defense Tech. 14:30-14:50 Co-Chair: Zhang, Xinglong A New Control Method of SMC for Three-Phase Grid-Connected Inverter ► SuA04-1 13:30-13:50 with A-LCL Type Filter Safety-Aware Optimal Control of Nonlinear Systems Using Off-Policy Re-Gao, Chunxiao Shanghai Maritime Univ. inforcement Learning Tan, Fuxiao Shanghai Maritime Univ. Lin. Minaduo Beijing Normal Univ. Zhao, Bo Beijing Normal Univ. ► SuA05-5 14:50-15:10 Beijing Normal Univ. Xia, Hongbing Design of Expert PID-based Temperature Control System for Extrusion Liu, Derong CASIA Machine Li, Hui Changchun Univ. of Tech. 13:50-14:10 Zhang, Ze Changchun Univ. of Tech. Data-driven Optimal Control for Lateral Stability of Vehicle in Straight-line Driving via Adaptive Dynamic Programming Zhang, Xiumei Changchun Univ. of Tech. Changchun Univ. of Tech. Luo, Mingyue Xu, Xirui Univ. of Electronic Sci. & Tech. of China Univ. of Electronic Sci. & Tech. of China Gao, Xiaoyang ► SuA05-6 15:10-15:30 Li, Tieshan Dalian Maritime Univ. Unsupervised Domain Adaptation Methods for Causal Correlation Huang, Tianpeng Southwest Jiaotong Univ. Zhou, Liyuan Shandong Tech. & Business Univ. Shandong Tech. & Business Univ. Dou, Quansheng 14:10-14:30 Tang, Huanling Dalian Maritime Univ. Robust H∞ Control of Unknown Discrete-Time Linear Systems with Shandong Tech. & Business Univ. Li. Xiuiuan Time-Varying Uncertainties Liu, Yanchao Shandong Tech. & Business Univ. Beijing Normal Univ. Zhu. Liao Liu, Chunxiuzi Beijing Normal Univ. Beijing Normal Univ. Liu, Yu SuB01 16:00-18:20 牡丹厅 Guo, Ping Beijing Normal Univ. Special Session: Approximation-Based Control and Optimization of Uncertain Nonlinear Systems 14:30-14:50 ► SuA04-4 Bohai Univ. Organizer: Wang, Huanqing Offline-Online Actor-Critic for Partially Observable Markov Decision Pro-Organizer: Chen, Ming Univ. of Sci. & Tech. Liaoning cess China Univ. of Mining & Tech. Chair: Wang, Huanqing Bohai Univ. Wang, Xuesong Co-Chair: Chen, Ming Univ. of Sci. & Tech. Liaoning Hou, Diyuan Beijing Univ. of Aeronautics & Astronautics ► SuB01-1 China Univ. of Mining & Tech. 16:00-16:20 Cheng, Yuhu Exponential Approaching Law Based Finite-time Tracking Control of Ma-► SuA04-5 14:50-15:10 nipulators Model-free Finite-horizon Optimal Tracking Control of Discrete-time Lin-Li, Dan Univ. of Sci. & Tech. LiaoNing ear Systems Chen, Ming Univ. of Sci. & Tech. Liaoning Zhongnan Univ. of Economics & Law Wang, Wei Univ. of Sci. & Tech. Beijing Peng, Kaixiang Huang, Zixin Wuhan Inst. of Tech. Wu, Libing Univ. of Sci. & Tech. Liaoning Wuhan Inst. of Tech. Wei. Ziana

► SuB01-2

16:20-16:40

Wuhan Inst. of Tech.

Lin, Mengying

terris. A Committation in	nt Controller Design for Uncertain Multi-agent Sys- iltering Backstepping Approach	Qin, Nianping	Sichuan Univ Sichuan Univ
Jiang, Mengyi	Univ. of Sci. & Tech. Liaoning	Zhou, Yao	
Yang, Yonghui	Univ. of Sci. & Tech. Liaoning	► SuB02-5	17:20–17:4
Gao, Chuang	Univ. of Sci. & Tech. Liaoning	~	n Status Using Multi-View Transformer
Pogodaev, Anatolii I	<u> </u>	Yang, Shengjie	Sichuan Uni
-	•	Shao, Jun	Sichuan Uni
uB01-3	16:40–17:00	Zhou, Kai	Sichuan Uni
	ed Temperature and Humidity Nonlinear Tracking	Yang, Zhe	Sichuan Uni
	Class of Air-handling Units	Liu, Yunjie	Southwest Jiaotong Uni
Sun, Yulong	Shandong Jianzhu Univ.	Xu, Xiuyuan	Sichuan Uni
Liu, Na	Shandong Jianzhu Univ. Architecture & Urban	Wang, Chengdi	Sichuan Uni
	Planning Design Inst.	► SuB02-6	17:40–18:0
Liu, Cungen	Shandong Jianzhu Univ.	DoseNet: An Ensemble-b	pased Deep Learning Method for 3D Dose Pro
SuB01-4	17:00–17:20	diction in IMRT	
Adaptive Attitude Fau	It-Tolerant Control of Quadcopter Based on Fuzzy	Wang, Qiang	Sichuan Uni
State Observer	,	Song, Ying	West China Hospita
Zou, Lingwei	Univ. of Sci. & Tech. Liaoning	Hu, Junjie	Sichuan Uni
Gao, Chuang	Univ. of Sci. & Tech. Liaoning	Liang, Liang	Sichuan Provincial People's Hospita
SuB01-5	17:20–17:40	► SuB02-7	18:00–18:2
	Optimal Control of Uncertain Strict-Feedback Non-		Diabetic Retinopathy Screening and Diagno
•	Event-Triggered Based on Fuzzy Observer and Re-		tworks on Multi-modal Retinal Fundus Imag
nforcement Learning	vent-miggered based on r dzzy Observer and ne-	Datasets	may
Sun, Yue	Univ. of Sci. & Tech. Liaoning	Guo, Jixiang	Sichuan Uni
	G	Li, Xiang	Sichuan Uni
Chen, Ming	School of Electronics & Information Engineering,	Zhang, Wei	Northwest Minzu Uni
	LiaoNing Univ. of Sci. & Tech.		
SuB01-6	17:40–18:00	Zhong, Jie	Sichuan Acad. of Medical Sci. & Sichua
Adapitve Fixed-Time	Fault-Tolerant Tracking Control for Nonlinear Sys-		Provincial People's Hospit
ems with Unmodeled	l Dynamics	Liu, Sanmei	Sichuan Acad. of Medical Sci. & Sichua
Ai, Ze	Bohai Univ.		Provincial People's Hospit
Zhang, Ren	Shenyang Agricultural Univ.	SuB03	16:00-18:20
Wang, Huanqing	Bohai Univ.	Special Session: Intellige	ent Learning and Control for Robotics and A
SuB01-7	18:00–18:20	tonomous Systems	
Adaptive Fuzzy Outp	ut-Feedback Control for Switched Nonlinear Sys-	Organizer: Pan, Yongping	National Univ. of Singapo
ems with Input Satura	•	Organizer: Li, Weibing	Sun Yat-sen Uni
Yan, Yan	Univ. of Sci. & Tech. Liaoning	Organizer: Zhang, Yinyar	
He, Xigin	Univ. of Sci. & Tech. Liaoning		Ningbo Inst. of Materials Tech. & Engineering
Wu, Libing	Univ. of Sci. & Tech. Liaoning	Organizer: Orien, Silu	
Yu, Qing Kun	Univ. of Sci. & Tech. Liaoning		Chinese Acad. of So
	•	Organizer: Liu, Heng	Shaanxi Normal Uni
SuB02	16:00-18:20	Organizer: Yang, Yongliar	
·	ory and Applications of nmODE (3)	Chair: Li, Weibing	Sun Yat-sen Uni
Organizer: Zhang, Lei		Co-Chair: Zhang, Yinyan	Jinan Uni
Organizer: Guo, Quar		► SuB03-1	16:00–16:2
Organizer: Zhou, Yao	Sichuan Univ.	Deception-Attack-Resilier	nt Kinematic Control of Redundant Manipul
Chair: Guo, Quan	Sichuan Univ.	tors: A Projection Neural	Network Approach
Co-Chair: Zhou, Yao			Jinan Uni
	Sichuan Univ.	Zhang, Chaofan	Jillali Ulli
•	Sichuan Univ. 16:00–16:20	Zhang, Chaofan Zhang, Yinyan	
SuB02-1	16:00–16:20	Zhang, Yinyan	Jinan Uni
SuB02-1 Predicting Tuberculos		Zhang, Yinyan Dai, Linyan	Jinan Uni Jinan Uni
SuB02-1 Predicting Tuberculos Multi-Task Learning	16:00–16:20 sis Drug Resistance Using Semi-Supervised and	Zhang, Yinyan Dai, Linyan ▶ SuB03-2	Jinan Uni Jinan Uni 16:20–16:4
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe	16:00–16:20 sis Drug Resistance Using Semi-Supervised and Sichuan Univ.	Zhang, Yinyan Dai, Linyan ► SuB03-2 A Spiking Cerebellar Mod	Jinan Uni Jinan Uni 16:20–16:4 lel Enhanced Gradient Neural Solution to Tim
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan	16:00–16:20 sis Drug Resistance Using Semi-Supervised and Sichuan Univ. Sichuan Univ.	Zhang, Yinyan Dai, Linyan  ► SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations	Jinan Uni Jinan Uni 16:20–16: <i>4</i> Iel Enhanced Gradient Neural Solution to Tim with Application to Robot Motion Planning
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu	16:00–16:20 sis Drug Resistance Using Semi-Supervised and Sichuan Univ. Sichuan Univ. Sichuan Univ.	Zhang, Yinyan Dai, Linyan  ► SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing	Jinan Uni Jinan Uni 16:20–16: <i>4</i> <i>del Enhanced Gradient Neural Solution to Tim</i> <i>with Application to Robot Motion Planning</i> Sun Yat-sen Uni
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie	16:00–16:20 sis Drug Resistance Using Semi-Supervised and Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ.	Zhang, Yinyan Dai, Linyan  ► SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying	Jinan Uni Jinan Uni 16:20–16:4 del Enhanced Gradient Neural Solution to Tim with Application to Robot Motion Planning Sun Yat-sen Uni Sun Yat-sen Uni
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan	16:00–16:20 sis Drug Resistance Using Semi-Supervised and Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ.	Zhang, Yinyan Dai, Linyan  ► SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian	Jinan Uni Jinan Uni 16:20–16:4 Iel Enhanced Gradient Neural Solution to Tim with Application to Robot Motion Planning Sun Yat-sen Uni Sun Yat-sen Uni Sun Yat-sen Uni
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan Wang, Chengdi	16:00–16:20 sis Drug Resistance Using Semi-Supervised and Sichuan Univ.	Zhang, Yinyan Dai, Linyan  ➤ SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian Hu, Kai Scl	Jinan Un Jinan Un 16:20–16: <i>del Enhanced Gradient Neural Solution to Tim with Application to Robot Motion Planning</i> Sun Yat-sen Un Sun Yat-sen Un Sun Yat-sen Un hool of Artificial Intelligence, Sun Yat-Sen Un
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan Wang, Chengdi	16:00–16:20 sis Drug Resistance Using Semi-Supervised and Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ.	Zhang, Yinyan Dai, Linyan  ► SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian	Jinan Un Jinan Un 16:20–16: <i>del Enhanced Gradient Neural Solution to Tim with Application to Robot Motion Planning</i> Sun Yat-sen Un Sun Yat-sen Un Sun Yat-sen Un hool of Artificial Intelligence, Sun Yat-Sen Un
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan Wang, Chengdi SuB02-2	16:00–16:20 sis Drug Resistance Using Semi-Supervised and Sichuan Univ.	Zhang, Yinyan Dai, Linyan  ➤ SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian Hu, Kai Scl	Jinan Uni Jinan Uni 16:20–16:4 del Enhanced Gradient Neural Solution to Tim with Application to Robot Motion Planning Sun Yat-sen Uni Sun Yat-sen Uni Sun Yat-sen Uni hool of Artificial Intelligence, Sun Yat-Sen Uni National Univ. of Singapo
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan Wang, Chengdi SuB02-2 An Optimized YOLO I	16:00–16:20 sis Drug Resistance Using Semi-Supervised and Sichuan Univ. 16:20–16:40 Model with Local Attention for Arthritis Lesion De-	Zhang, Yinyan Dai, Linyan  ➤ SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian Hu, Kai Pan, Yongping  ➤ SuB03-3	Jinan Un Jinan Un 16:20–16: <i>del Enhanced Gradient Neural Solution to Tim</i> with Application to Robot Motion Planning Sun Yat-sen Un Sun Yat-sen Un Sun Yat-sen Un hool of Artificial Intelligence, Sun Yat-Sen Un National Univ. of Singapo 16:40–17:0
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan Wang, Chengdi SuB02-2 An Optimized YOLO I	16:00–16:20 sis Drug Resistance Using Semi-Supervised and Sichuan Univ. 16:20–16:40 Model with Local Attention for Arthritis Lesion De-	Zhang, Yinyan Dai, Linyan  ➤ SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian Hu, Kai Scl Pan, Yongping  ➤ SuB03-3  Predefined-Time Synchro	Jinan Uni Jinan Uni 16:20–16:4 del Enhanced Gradient Neural Solution to Tim with Application to Robot Motion Planning Sun Yat-sen Uni Sun Yat-sen Uni Sun Yat-sen Uni hool of Artificial Intelligence, Sun Yat-Sen Uni National Univ. of Singapo 16:40–17:0
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan Wang, Chengdi SuB02-2 An Optimized YOLO I Pection on X-ray Image	16:00–16:20 sis Drug Resistance Using Semi-Supervised and Sichuan Univ. 16:20–16:40 Model with Local Attention for Arthritis Lesion Deees	Zhang, Yinyan Dai, Linyan  ➤ SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian Hu, Kai Scl Pan, Yongping  ➤ SuB03-3  Predefined-Time Synchroworks with Time-Varying	Jinan Uni Jinan Uni 16:20–16:4 del Enhanced Gradient Neural Solution to Tim with Application to Robot Motion Planning Sun Yat-sen Uni Sun Yat-sen Uni Sun Yat-sen Uni Sun Yat-sen Uni National Univ. of Singapo 16:40–17:0 Delays
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan Wang, Chengdi SuB02-2 An Optimized YOLO I ection on X-ray Image Liu, Yaqi	16:00–16:20 sis Drug Resistance Using Semi-Supervised and Sichuan Univ. 16:20–16:40 Model with Local Attention for Arthritis Lesion Dees Sichuan Univ.	Zhang, Yinyan Dai, Linyan  ➤ SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian Hu, Kai Scl Pan, Yongping  ➤ SuB03-3  Predefined-Time Synchroworks with Time-Varying Wang, Qian	Jinan Un Jinan Un 16:20–16:4 del Enhanced Gradient Neural Solution to Tim with Application to Robot Motion Planning Sun Yat-sen Un Sun Yat-sen Un Sun Yat-sen Un Sun Yat-sen Un National Univ. of Singapo 16:40–17:0 polization of Different Dimensional Neural Neura
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan Wang, Chengdi SuB02-2 An Optimized YOLO I ection on X-ray Image Liu, Yaqi Yang, Li Wang, Tingting	16:00–16:20 sis Drug Resistance Using Semi-Supervised and Sichuan Univ. 16:20–16:40 Model with Local Attention for Arthritis Lesion Dees Sichuan Univ. North Sichuan Medical College Dazhou Central Hospital	Zhang, Yinyan Dai, Linyan  ➤ SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian Hu, Kai Scl Pan, Yongping  ➤ SuB03-3  Predefined-Time Synchro works with Time-Varying Wang, Qian Pan, Yongping	Jinan Un Jinan Un 16:20–16:4 del Enhanced Gradient Neural Solution to Tim with Application to Robot Motion Planning Sun Yat-sen Un Sun Yat-sen Un Sun Yat-sen Un National Univ. of Singapo 16:40–17:0 Delays Sun Yat-sen Un National Univ. of Different Dimensional Neural Neural Neural Neural Univ. National Univ. of Singapo
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan Wang, Chengdi SuB02-2 An Optimized YOLO I ection on X-ray Image Liu, Yaqi Yang, Li Wang, Tingting Wu, Jianhong	16:00–16:20 sis Drug Resistance Using Semi-Supervised and  Sichuan Univ. 16:20–16:40 Model with Local Attention for Arthritis Lesion Deles  Sichuan Univ. North Sichuan Medical College Dazhou Central Hospital Dazhou Central Hospital	Zhang, Yinyan Dai, Linyan  ➤ SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian Hu, Kai Scl Pan, Yongping  ➤ SuB03-3  Predefined-Time Synchro works with Time-Varying Wang, Qian Pan, Yongping Liu, Heng	Jinan Un Jinan Un 16:20–16:4 del Enhanced Gradient Neural Solution to Tim with Application to Robot Motion Planning Sun Yat-sen Un Sun Yat-sen Un Sun Yat-sen Un National Univ. of Singapo 16:40–17:0 Delays Sun Yat-sen Un National Univ. of Singapo Sun Yat-sen Un National Univ. of Singapo Onization of Different Dimensional Neural Neural Neural Neural Neural Univ. of Singapo Shaanxi Normal Univ.
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan Wang, Chengdi SuB02-2 An Optimized YOLO I vection on X-ray Image Liu, Yaqi Yang, Li Wang, Tingting Wu, Jianhong He, Tao	16:00–16:20 sis Drug Resistance Using Semi-Supervised and  Sichuan Univ. 16:20–16:40 Model with Local Attention for Arthritis Lesion Dees  Sichuan Univ. North Sichuan Medical College Dazhou Central Hospital Dazhou Central Hospital Sichuan Univ.	Zhang, Yinyan Dai, Linyan  ➤ SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian Hu, Kai Scl Pan, Yongping  ➤ SuB03-3  Predefined-Time Synchro works with Time-Varying Wang, Qian Pan, Yongping Liu, Heng  ➤ SuB03-4	Jinan Uni Jinan Uni Jinan Uni 16:20–16:4 del Enhanced Gradient Neural Solution to Tim with Application to Robot Motion Planning Sun Yat-sen Uni Sun Yat-sen Uni Sun Yat-sen Uni Sun Yat-sen Uni National Univ. of Singapo 16:40–17:0 Delays Sun Yat-sen Uni National Univ. of Singapo Shaanxi Normal Uni 17:00–17:2
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan Wang, Chengdi SuB02-2 An Optimized YOLO I vection on X-ray Image Liu, Yaqi Yang, Li Wang, Tingting Wu, Jianhong He, Tao Zhang, Yi	16:00–16:20 sis Drug Resistance Using Semi-Supervised and  Sichuan Univ. 16:20–16:40 Model with Local Attention for Arthritis Lesion Dees  Sichuan Univ. North Sichuan Medical College Dazhou Central Hospital Dazhou Central Hospital Sichuan Univ. Sichuan Univ. Sichuan Univ.	Zhang, Yinyan Dai, Linyan  ➤ SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian Hu, Kai Scl Pan, Yongping  ➤ SuB03-3  Predefined-Time Synchro works with Time-Varying Wang, Qian Pan, Yongping Liu, Heng  ➤ SuB03-4  Fixed-Time Dynamic Sui	Jinan Uni Jinan Uni Jinan Uni 16:20–16:4 del Enhanced Gradient Neural Solution to Tim with Application to Robot Motion Planning Sun Yat-sen Uni Sun Yat-sen Uni Sun Yat-sen Uni National Univ. of Singapo 16:40–17:0 Delays Sun Yat-sen Uni National Univ. of Singapo Shaanxi Normal Uni 17:00–17:2 Arface Tracking of Nonlinear Systems with University of Singapo Shaanxi Normal University of Nonlinear Systems with University of Singapo Shaanxi Normal University of Nonlinear Systems with University of Singapo Shaanxi Normal University of Nonlinear Systems with University of Singapo Shaanxi Normal University of Nonlinear Systems with University of Singapo Shaanxi Normal University of Nonlinear Systems with University of Singapo Shaanxi Normal University of Singapo Shaanxi Normal University of Singapo Shaanxi Normal University of Nonlinear Systems with University of Singapo
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan Wang, Chengdi SuB02-2 An Optimized YOLO I ection on X-ray Image Liu, Yaqi Yang, Li Wang, Tingting Wu, Jianhong He, Tao Zhang, Yi SuB02-3	16:00–16:20 sis Drug Resistance Using Semi-Supervised and  Sichuan Univ. 16:20–16:40 Model with Local Attention for Arthritis Lesion Dees  Sichuan Univ. North Sichuan Medical College Dazhou Central Hospital Dazhou Central Hospital Sichuan Univ. Sichuan Univ. Sichuan Univ. 16:40–17:00	Zhang, Yinyan Dai, Linyan  ➤ SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian Hu, Kai Scl Pan, Yongping  ➤ SuB03-3  Predefined-Time Synchro works with Time-Varying Wang, Qian Pan, Yongping Liu, Heng  ➤ SuB03-4  Fixed-Time Dynamic Sui known Control Directions	Jinan Uni Jinan Uni Jinan Uni 16:20–16:4 del Enhanced Gradient Neural Solution to Time with Application to Robot Motion Planning Sun Yat-sen Uni Sun Yat-sen Uni Sun Yat-sen Uni National Univ. of Singapo 16:40–17:0 onization of Different Dimensional Neural Neural Neural Neural Univ. of Singapo Shaanxi Normal Uni 17:00–17:2 offace Tracking of Nonlinear Systems with University of Singapo Shaanxi Wormal University of Singapo Shaanxi Normal University of Singapo Shaanxi Normal University of Singapo
GuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan Wang, Chengdi GuB02-2 An Optimized YOLO I Pection on X-ray Image Liu, Yaqi Yang, Li Wang, Tingting Wu, Jianhong He, Tao Zhang, Yi GuB02-3 Enhanced Multi-Object	16:00–16:20 sis Drug Resistance Using Semi-Supervised and  Sichuan Univ. 16:20–16:40 Model with Local Attention for Arthritis Lesion Dees  Sichuan Univ. North Sichuan Medical College Dazhou Central Hospital Dazhou Central Hospital Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Ctive Evolutionary Framework for Fluence Map Op-	Zhang, Yinyan Dai, Linyan  ➤ SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian Hu, Kai Scl Pan, Yongping  ➤ SuB03-3  Predefined-Time Synchro works with Time-Varying Wang, Qian Pan, Yongping Liu, Heng  ➤ SuB03-4  Fixed-Time Dynamic Sur known Control Directions Liu, Guilong	Jinan Un Jinan Un 16:20–16:4 del Enhanced Gradient Neural Solution to Tim with Application to Robot Motion Planning Sun Yat-sen Un Sun Yat-sen Un Sun Yat-sen Un National Univ. of Singapo 16:40–17:0 onization of Different Dimensional Neural Neural Neural Delays Sun Yat-sen Un National Univ. of Singapo Shaanxi Normal Un 17:00–17:2 rface Tracking of Nonlinear Systems with U
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan Wang, Chengdi SuB02-2 An Optimized YOLO I ection on X-ray Image Liu, Yaqi Yang, Li Wang, Tingting Wu, Jianhong He, Tao Zhang, Yi SuB02-3 Enhanced Multi-Objectimization in Intensity-	16:00–16:20 sis Drug Resistance Using Semi-Supervised and  Sichuan Univ. 16:20–16:40 Model with Local Attention for Arthritis Lesion Deles  Sichuan Univ. North Sichuan Medical College Dazhou Central Hospital Dazhou Central Hospital Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Citive Evolutionary Framework for Fluence Map Op-Modulated Radiation Therapy	Zhang, Yinyan Dai, Linyan  ➤ SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian Hu, Kai Scl Pan, Yongping  ➤ SuB03-3  Predefined-Time Synchro works with Time-Varying Wang, Qian Pan, Yongping Liu, Heng  ➤ SuB03-4  Fixed-Time Dynamic Sui known Control Directions	Jinan Un Jinan Un 16:20–16:4 del Enhanced Gradient Neural Solution to Tim with Application to Robot Motion Planning Sun Yat-sen Un Sun Yat-sen Un Sun Yat-sen Un National Univ. of Singapo 16:40–17:0 onization of Different Dimensional Neural Neural Neural Delays Sun Yat-sen Un National Univ. of Singapo Shaanxi Normal Un 17:00–17:2 rface Tracking of Nonlinear Systems with U
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan Wang, Chengdi SuB02-2 An Optimized YOLO I ection on X-ray Image Liu, Yaqi Yang, Li Wang, Tingting Wu, Jianhong He, Tao Zhang, Yi SuB02-3 Enhanced Multi-Objectimization in Intensity- Yao, Yuan	16:00–16:20 sis Drug Resistance Using Semi-Supervised and  Sichuan Univ. 16:20–16:40 Model with Local Attention for Arthritis Lesion Deles  Sichuan Univ. North Sichuan Medical College Dazhou Central Hospital Dazhou Central Hospital Sichuan Univ.	Zhang, Yinyan Dai, Linyan  ➤ SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian Hu, Kai Scl Pan, Yongping  ➤ SuB03-3  Predefined-Time Synchro works with Time-Varying Wang, Qian Pan, Yongping Liu, Heng  ➤ SuB03-4  Fixed-Time Dynamic Sur known Control Directions Liu, Guilong	Jinan Un Jinan Un 16:20–16:4 del Enhanced Gradient Neural Solution to Tim with Application to Robot Motion Planning Sun Yat-sen Un Sun Yat-sen Un Sun Yat-sen Un National Univ. of Singapo 16:40–17:0 Delays Sun Yat-sen Un National Univ. of Singapo Shaanxi Normal Un 17:00–17:2 rface Tracking of Nonlinear Systems with U Univ. of Sci. & Tech. Beijir
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan Wang, Chengdi SuB02-2 An Optimized YOLO I vection on X-ray Image Liu, Yaqi Yang, Li Wang, Tingting Wu, Jianhong He, Tao Zhang, Yi SuB02-3 Enhanced Multi-Objectimization in Intensity- Yao, Yuan Yu, Chengrong	16:00–16:20 sis Drug Resistance Using Semi-Supervised and  Sichuan Univ. 16:20–16:40  Model with Local Attention for Arthritis Lesion Dees  Sichuan Univ. North Sichuan Medical College Dazhou Central Hospital Dazhou Central Hospital Sichuan Univ. College of Computer Sci.	Zhang, Yinyan Dai, Linyan  ➤ SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian Hu, Kai Scl Pan, Yongping  ➤ SuB03-3  Predefined-Time Synchro works with Time-Varying Wang, Qian Pan, Yongping Liu, Heng  ➤ SuB03-4  Fixed-Time Dynamic Sur known Control Directions Liu, Guilong Yang, Yongliang  ➤ SuB03-5	Jinan Uni Jinan Uni Jinan Uni 16:20–16:4 del Enhanced Gradient Neural Solution to Time with Application to Robot Motion Planning Sun Yat-sen Uni Sun Yat-sen Uni Sun Yat-sen Uni National Univ. of Singapor 16:40–17:0 onization of Different Dimensional Neural Neural Neural Neural Neural Univ. of Singapor Shaanxi Normal Uni 17:00–17:2 ordace Tracking of Nonlinear Systems with Univ. of Science & Tec Univ. of Sci. & Tech. Beijir 17:40–18:0
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan Wang, Chengdi SuB02-2 An Optimized YOLO I ection on X-ray Image Liu, Yaqi Yang, Li Wang, Tingting Wu, Jianhong He, Tao Zhang, Yi SuB02-3 Enhanced Multi-Objectimization in Intensity- Yao, Yuan	16:00–16:20 sis Drug Resistance Using Semi-Supervised and  Sichuan Univ. 16:20–16:40 Model with Local Attention for Arthritis Lesion Deles  Sichuan Univ. North Sichuan Medical College Dazhou Central Hospital Dazhou Central Hospital Sichuan Univ.	Zhang, Yinyan Dai, Linyan  ➤ SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian Hu, Kai Scl Pan, Yongping  ➤ SuB03-3  Predefined-Time Synchro works with Time-Varying Wang, Qian Pan, Yongping Liu, Heng  ➤ SuB03-4  Fixed-Time Dynamic Sur known Control Directions Liu, Guilong Yang, Yongliang  ➤ SuB03-5  Structured State Feedbace	Jinan Uni Jinan Uni Jinan Uni 16:20–16:4 del Enhanced Gradient Neural Solution to Time with Application to Robot Motion Planning Sun Yat-sen Uni Sun Yat-sen Uni Sun Yat-sen Uni Sun Yat-sen Uni National Univ. of Singapor 16:40–17:0 onization of Different Dimensional Neural Neural Neural Neural Neural Univ. of Singapor Shaanxi Normal Uni 17:00–17:2 offace Tracking of Nonlinear Systems with Univ. of Sci. & Tech. Beijir 17:40–18:0 ok by Gain Matrix Factorization with Application
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan Wang, Chengdi SuB02-2 An Optimized YOLO I vection on X-ray Image Liu, Yaqi Yang, Li Wang, Tingting Wu, Jianhong He, Tao Zhang, Yi SuB02-3 Enhanced Multi-Objectimization in Intensity- Yao, Yuan Yu, Chengrong	16:00–16:20 sis Drug Resistance Using Semi-Supervised and  Sichuan Univ. 16:20–16:40  Model with Local Attention for Arthritis Lesion Dees  Sichuan Univ. North Sichuan Medical College Dazhou Central Hospital Dazhou Central Hospital Sichuan Univ. College of Computer Sci.	Zhang, Yinyan Dai, Linyan  ➤ SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian Hu, Kai Scl Pan, Yongping  ➤ SuB03-3  Predefined-Time Synchro works with Time-Varying Wang, Qian Pan, Yongping Liu, Heng  ➤ SuB03-4  Fixed-Time Dynamic Sun known Control Directions Liu, Guilong Yang, Yongliang  ➤ SuB03-5  Structured State Feedbac to the Integrated Design of	Jinan Uni Jinan Uni Jinan Uni 16:20–16:4 del Enhanced Gradient Neural Solution to Time with Application to Robot Motion Planning Sun Yat-sen Uni Sun Yat-sen Uni Sun Yat-sen Uni Sun Yat-sen Uni National Univ. of Singapor 16:40–17:0 onization of Different Dimensional Neural Neural Neural Neural Neural Univ. of Singapor Shaanxi Normal Uni 17:00–17:2 offace Tracking of Nonlinear Systems with Univ. of Sci. & Tech. Beijir 17:40–18:0 of A Flexure-linked Dual-drive Gantry
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan Wang, Chengdi SuB02-2 An Optimized YOLO I Dection on X-ray Image Liu, Yaqi Yang, Li Wang, Tingting Wu, Jianhong He, Tao Zhang, Yi SuB02-3 Enhanced Multi-Object Imization in Intensity- Yao, Yuan Yu, Chengrong Hu, Junjie Zhang, Yan	16:00–16:20 sis Drug Resistance Using Semi-Supervised and  Sichuan Univ. 16:20–16:40  Model with Local Attention for Arthritis Lesion Detes  Sichuan Univ. North Sichuan Medical College Dazhou Central Hospital Dazhou Central Hospital Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Cotive Evolutionary Framework for Fluence Map Optemodulated Radiation Therapy  Sichuan Univ. College of Computer Sci. Sichuan Univ.	Zhang, Yinyan Dai, Linyan  ➤ SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian Hu, Kai Scl Pan, Yongping  ➤ SuB03-3  Predefined-Time Synchro works with Time-Varying Wang, Qian Pan, Yongping Liu, Heng  ➤ SuB03-4  Fixed-Time Dynamic Sun known Control Directions Liu, Guilong Yang, Yongliang  ➤ SuB03-5  Structured State Feedbac to the Integrated Design of	Jinan Uni Jinan Uni Jinan Uni 16:20–16:4 del Enhanced Gradient Neural Solution to Time with Application to Robot Motion Planning Sun Yat-sen Uni Sun Yat-sen Uni Sun Yat-sen Uni Sun Yat-sen Uni National Univ. of Singapor 16:40–17:0 onization of Different Dimensional Neural Neural Neural Neural Neural Univ. of Singapor Shaanxi Normal Uni 17:00–17:2 offace Tracking of Nonlinear Systems with Univ. of Sci. & Tech. Beijir 17:40–18:0 of A Flexure-linked Dual-drive Gantry Ningbo Inst. of Materials Tech. & Engineering
SuB02-1 Predicting Tuberculos Multi-Task Learning Yang, Zhe Liang, Shufan Zhou, Lingyu Yang, Shengjie Xu, Xiuyuan Wang, Chengdi SuB02-2 An Optimized YOLO I Pection on X-ray Image Liu, Yaqi Yang, Li Wang, Tingting Wu, Jianhong He, Tao Zhang, Yi SuB02-3 Enhanced Multi-Objectimization in Intensity- Yao, Yuan Yu, Chengrong Hu, Junjie Zhang, Yan SuB02-4	sis Drug Resistance Using Semi-Supervised and  Sichuan Univ. North Sichuan Medical College Dazhou Central Hospital Dazhou Central Hospital Dazhou Central Hospital Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. Sichuan Univ. College of Computer Sci. Sichuan Univ. West China Hospital, Sichuan Univ.	Zhang, Yinyan Dai, Linyan  ➤ SuB03-2  A Spiking Cerebellar Mod Varying Linear Equations Li, Weibing Zou, Yanying Yi, Zilian Hu, Kai Sol Pan, Yongping  ➤ SuB03-3  Predefined-Time Synchro works with Time-Varying Wang, Qian Pan, Yongping Liu, Heng  ➤ SuB03-4  Fixed-Time Dynamic Sun known Control Directions Liu, Guilong Yang, Yongliang  ➤ SuB03-5  Structured State Feedbact to the Integrated Design of Yuan, Liming	Jinan Uni Jinan Uni Jinan Uni 16:20–16:4 del Enhanced Gradient Neural Solution to Time with Application to Robot Motion Planning Sun Yat-sen Uni Sun Yat-sen Uni Sun Yat-sen Uni National Univ. of Singapor 16:40–17:0 onization of Different Dimensional Neural Ne Delays Sun Yat-sen Uni National Univ. of Singapor Shaanxi Normal Uni 17:00–17:2 rface Tracking of Nonlinear Systems with Uni Univ. of Sci. & Tech. Beijin 17:40–18:0 ck by Gain Matrix Factorization with Application

Technical Program CSIS-IAC 2023

Wang, Yin	Zhejiang Jiecang Linear Motion Tech. Co.,Ltd	A Hierarchical Control Str	ategy for Active Pantograph in High-speed Rail-
Ding, Miaojiang	Zhejiang Jiecang Linear Motion Tech. Co.,Ltd	way	
Qiu, Kaifeng	Zhejiang Jiecang Linear Motion Tech. Co.,Ltd	Wang, Hui	Southwest Jiaotong Univ.
Zhu, Chuanchao	Zhejiang Jiecang Linear Motion Tech. Co.,Ltd	Liu, Zhigang	Southwest Jiaotong Univ.
Zeng, Weican	Ningbo Inst. of Materials Tech. & Engineering,	► SuB04-6	17:40–18:00
	Chinese Acad. of Sci.	Design and Analysis of A	Single Lower Limb Rehabilitation Exoskeleton
Fang, Zaojun	Ningbo Inst. of Materials Tech. & Engineering,	Robot	
	Chinese Acad. of Sci.	Li, Ang	Kunming Univ. of Sci. & Tech.
Chi, Zhang	Ningbo Inst. of Materials Tech. & Engineering, CAS	Luan, Fujin	Kunming Univ. of Sci. & Tech.
Yang, Guilin	Ningbo Inst. of Materials Tech. & Engineering, CAS	Zhang, Faxiang	Kunming Univ. of Sci. & Tech.
► SuB03-6	18:00–18:20	Lu, Sheng	First People's Hospital of Yunnan Province
		Gao, Guanbin	Kunming Univ. of Sci. & Tech.
t Constraint	on Planning of Dual-Arm Robot System with Join-	Liu, Meihong	Kunming Univ. of Sci. & Tech.
Yu, Yilin	Hainan Univ.	SuB05	16:00-18:00 紫荆厅
•	Hainan Univ.		gent and Unmanned Aerial Vehicles
Cang, Naimeng Xue, Shan	South China Univ. of Tech.		
,	Hainan Univ.	Chair: Li, Jinna	Liaoning Petrochemical Univ.
Jia, Zehua		Co-Chair: Qiu, Tenghai	Inst. of Automation, Chinese Acad. of Sci.
Guo, Dongsheng	naman oniv.	► SuB05-1	16:00–16:20
SuB04	16:00-18:00	•	Attack Using Attention-Based Reinforcement
Regular Session: L	earning Control and Optimization	Learning	
Chair: Xu, Xiang	Southern University of Science and Technology	Qiu, Tenghai	Inst. of Automation, Chinese Acad. of Sci.
Co-Chair: Lv, Yong	,	Pu, Zhiqiang	Inst. of Automation, Chinese Acad. of Sci.
▶SuB04-1	16:00–16:20	Zhang, Tianle	Inst. of Automation, Chinese Acad. of Sci.
	Controller Design of Disturbed Servo System	Yi, Jian-Qiang	Inst. of Automation, Chinese Acad. of Sci.
Lv. Yongfeng	Taiyuan Univ. of Tech.	Zhao, Yuqian	Central South Univ.
Yu, Tang	Taiyuan Univ. of Tech.	► SuB05-2	16:20–16:40
Zhao, Jun	Shandong Univ. of Sci. & Tech.	•	oration Method for Multi-Agent Reinforcement
Huang, Yingbo	Kunming Univ. of Sci. & Tech.	Learning	
	· ·	Zhao, Zhitong	Univ. of Electronic Sci. & Tech. of China
► SuB04-2	16:20–16:40	Zhang, Ya	Univ. of Electronic Sci. & Tech. of China
	Programming-based Optimal Interaction Control of	Wang, Siying	Univ. of Electronic Sci. & Tech. of China
	nipulators under Physical Human-robot Interaction	Qu, Hong	Univ. of Electronic Sci. & Tech. of China
Dong, Bo	Changchun Univ. of Tech.	► SuB05-3	16:40–17:00
Gao, Yuhang	Changchun Univ. of Tech.	Distributed Online Optim	nization via Kernel Reproduced Gradient De-
An, Tianjiao	Changchun Univ. of Tech.	scent	
Ma, Bing	Changchun Univ. of Tech.	Lin, Yifu	Beihang Univ.
Jiang, Hucheng	Changchun Univ. of Tech.	Li, Wenling	Beihang Univ.
► SuB04-3	16:40–17:00	► SuB05-4	17:00–17:20
A Fixed-time Dist	tributed Constrained Optimization Algorithm over	A Path-tracking Controller	r for Articulated Vehicle with Multi-full Trailers
Weight-unbalanced	d Directed Network	Li, Hong C	hina Intelligent & Connected Vehicles (Beijing)
Shi, Xiasheng	China Univ. of Mining & Tech.		Research Inst. Co.,Ltd
Mu, Chaoxu	Tianjin Univ.	► SuB05-5	17:20–17:40
Sun, Changyin	Southeast Univ.		Algorithm Based on Active Disturbance Rejec-
► SuB04-4	17:00–17:20	tion Control	age and a second and a second and a region
	Piezoelectric Motion Systems with Hysteresis Model-	Liu, Junhao	Beihang Univ.
ing and Parameter	•	Wang, Zhuo	Beijing Univ. of Aeronautics & Astronautics
Wu, Mingfan	Jinan Univ.	► SuB05-6	17:40–18:00
Zhang, Yangming		► Subus-6  Airspeed Identification of	
► SuB04-5	17:20–17:40	,	
► OUDU4-0	17.20-17.40	Wang, Fan	Chinese Acad. of Sci.

CSIS-IAC 2023 Author Index

## **Author Index**

(O=Organizer, C=Chair, CC=Co-Chair)

A	
Abdurahman, AbdujelilSaPoster-15	25
Ai, Ze	29
An, Sigi	27
An, Tianjiao	30
Ao, Dongdong	28
В	
Bai, MengyuSuA05-3	28
Bai, Weiwei	25
Bing, Hu	23
Bing, Song SaB01-6	23
С	
Cai, Guohui	23
Cai, Hongbin	25
Cai, Mengxi SuA02-3	27
Cai, Shipei	21
Cai, Ying	23
SuA02-2	27
Cang, Naimeng	24
SuB03-6	30
Cao, Zhiwei	23
Chang, Chunling	22
Chen, AiSaPoster-13	25
Chen, JianSaPoster-01	25
Chen, Jiawei	24
Chen, Jingjing SaA04-5	22
Chen, Li	24
Chen, Liangming	C
Chen, MingSuB01	O, CC
SuB01-1	28
SuB01-5	29
Chen, Qiang SaA01-6	21
Chen, Shichao SaB01-6	23
SuA01-3	27
Chen, SiluSuB03	C
SuB03-5	29
Chen, Tao	25
Chen, Xiangyong	21
SaB01-3	23
Chen, XiaofengSaB05-3	24
Chen, Xingru SaPoster-30	26
Chen, YiSaB03-6	23
Chen, YuanyuanSaB02-2	23
SaPoster-31	26
Chen, Zhang SaB05-4	24
Cheng, Jiabei SaA06-4	22
Cheng, Shi SaB04-5	24
Cheng, Yuhu SuA04-4	28
Cheng, Zunshui	CC
	21
Chi, Zhang	30
Cui, EnchangSuA03-1	27
Cui, HannahSaB06-4	24
Cui, Yang SuA05-2	28
Cui, Yang SaPoster-16	25
Cui, Yi	21 21
58402-2	- 71

D	
Dai, Cheng SaPoster-04	25
Dai, Linyan	29
Dai, Xingyuan SuA01-3	27
Dai, XishengSaPoster-26	26
Daji, Ergu	27
Deng, Bingchen	24
Deng, Xiaodan SaPoster-23	25
Ding, Derui	22
Ding, Kemi SaA04	С
Ding, MiaojiangSuB03-5	30
Dong, BoSuB04-2	30
Dong, Junian SaB04-1	24
Dong, Lu	С
Dong, XisongSaB01-6	23
Dou, Quansheng	21
	23
SuA05-6	28
Du, Jiahao SaPoster-05	25
Duan, Shukai	23 25
SaPoster-13 Duan, Tianying SaPoster-25	26
Duan, nanying	
F	
Fan, Quan-YongSaB05	CC
SaB05-6	24
Fang, Zaojun	30
Fu, Jian SaPoster-32	26
G	
Gan, Zirun SaB06-1	24
Gao, Chuang SuB01-2	29
SuB01-4	29
Gao, Chunxiao	28
Gao, Erhao SaPoster-22	25
Gao, Geolone SaA04-2	22
Gao, Guanbin SuB04-6	30
Gao, XiaotingSuA03-1	27
Gao, Xiaoyang SuA04-2	28
Gao, Xinrui	27
Gao, Yan	27
Gao, Yu	21
Gao, Yuhang SuB04-2	30
Ge, RenSaA06-2	22
Gong, Yulian SaA05-5	22
Guo, Dongsheng SaA06	O, CC
SaB06	O, CC
SaB06-2	24
	30
Guo, Fangda	24
Guo, Jing	24
Guo, Jixiang SuB02-7	29
Guo, Ming	23 28
Guo, Ping	20 O, C
SaB02-	23
Sabuz-3	O, C
	O, C
Guo, Yue SaB05-6	24
Guo, Zhen	28
Guo, Zhendong SaPoster-09	25
H	
Han, Fujun SaPoster-13	25
Han, Yatong	24
Hao, Mingshuang	21
He, Jun	26
He, Quansong	23
He, Tao	23

Technical Program CSIS-IAC 2023

SuB02-2	29	SaA04-6	22
He, Wei	26	Li, Hui	28
He, Weijing	25	SuA05-5	28
He, Xiqin       SuB01-7         He, Xiuyu       SaPoster-30	29 26	Li, Ji-GongSaPoster-29 Li, JiachengSaPoster-08	26 25
He, Zhaoshui SaB06-5	24	Li, Jian	22
Hou, Diyuan	28	Li, Jiaxin	25
Hu, Haifeng SaB06-3	24	Li, Jiaxuan SaB05-6	24
Hu, Jingyao SaA02-1	21	Li, Jinghan SaA05-3	22
Hu, Junjie	23	Li, Jingsui	24
SuA02-2	27	Li, Jinna SaA02-6	21
SuA02-7	27	SuB05	C
SuB02-3	29	Li, Jinsheng	26
SuB02-6	29	Li, Jiufa SaB03-1	23
Hu, Kai	29	Li, Lefei SaA03-2	21
Hu, Shaobo	24	Li, Mengwen SuA03-2	27
Hu, Tianmeng SaA02-4	21	Li, PingSaA02-3	21
Hu, Xuguang SaA02-2	21		22
Huang, Deging	25	SaPoster-17	25
Huang, HaiyingSuA02-1	27	Li, Qiao SaA03-2	21
SuA02-6	27	Li, Runmei SaB01-6	23
Huang, He	25	Li, Suyuan	26
Huang, Jian	22	Li, Tieshan	28
Huang, Kaide	23	Li, WanhuaSaA06-5	22
Huang, TianpengSuA04-2	28	Li, Weibing	0
Huang, Tingwen	21		0
Huang, Wei	27	SuB03	O, C
Huang, Xuan SaB02-4	23	SuB03-2	29
Huang, Yingbo SuB04-1	30	Li, Wenling SuB05-3	30
Huang, Zixin SuA04-5	28	Li, Wengian SaA05-2	22
		Li, Xiang SuB02-7	29
J		Li, XingruSaA06-1	22
Jia, YuwenSaPoster-25	26	Li, XiujuanSaA03-4	21
Jia, ZehuaSaB06-2	24		23
SuB03-6	30	SuA05-6	28
Jiang, HeSuA03-4	28	Li, Yanlei SuA05-3	28
Jiang, Hong SaPoster-08	25	Li, Yiming SaB02-4	23
Jiang, Hongru SaB05-6	24	Li, Yunpeng SuA03-6	28
Jiang, Hucheng SuB04-2	30	Li, Yushuai	28
" M '	00	Li, 14011441	
Jiang, Mengyi	29	Li, Yuxiang SaB03-4	23
Jiang, WeiliSaB02-4	23		
Jiang, WeiliSaB02-4Jiang, YanSaA04	23 CC	Li, Yuxiang SaB03-4	23
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04         SaA04-1       SaA04-1	23 CC 22	Li, Yuxiang	23 25
Jiang, Weili         SaB02-4           Jiang, Yan         SaA04           SaA04-1         SaPoster-08	23 CC 22 25	Li, Yuxiang	23 25 23
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04         SaA04-1       SaPoster-08         Jiao, Shanshan       SuA01-4	23 CC 22 25 27	Li, Yuxiang SaB03-4 Li, Zhe SaPoster-18 Liang, Guojie SaB01-4 Liang, Hao SaB06-5	23 25 23 24
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04         SaA04-1       SaPoster-08         Jiang, Yongxiang       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaA03-3	23 CC 22 25 27 21	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4	23 25 23 24 23
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04         SaA04-1       SaPoster-08         Jiang, Yongxiang       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaA03-3         Jin, Xin       SaB01-4	23 CC 22 25 27 21 23	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01	23 25 23 24 23 C
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04         SaA04-1       SaPoster-08         Jiang, Yongxiang       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaA03-3	23 CC 22 25 27 21	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01         SaA01-2	23 25 23 24 23 C
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04         SaA04-1       SaPoster-08         Jiang, Yongxiang       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaA03-3         Jin, Xin       SaB01-4	23 CC 22 25 27 21 23	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01         SaA01-2       SaB01         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6	23 25 23 24 23 C 21 O, C
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-         SaA04-1       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaA03-3         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5	23 CC 22 25 27 21 23	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01         SaA01-2       SaB01         Liang, Li       SaPoster-12	23 25 23 24 23 C 21 O, C 25
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04         SaA04-1       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaA03-3         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5	23 CC 22 25 27 21 23 21	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01         SaA01-2       SaB01         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1	23 25 23 24 23 C 21 O, C 25 29
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-         SaA04-1       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaA03-3         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5         K         Kang, Wenxiong       SaA06-         SaB04-4	23 CC 22 25 27 21 23 21	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01         SaA01-2       SaB01         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3	23 25 23 24 23 C 21 O, C 25 29
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-         SaA04-1       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaA03-3         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5         K         Kang, Wenxiong       SaA06	23 CC 22 25 27 21 23 21	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01         SaA01-2       SaB01         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3         Liao, Runlong       SuA02-3	23 25 23 24 23 C 21 O, C 25 29 22
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-         SaA04-1       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaA03-3         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5         K         Kang, Wenxiong       SaA06         SaB06-6       SaB06-6	23 CC 22 25 27 21 23 21 O 24	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01         SaA01-2       SaB01         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3         Liao, Runlong       SuA02-3         Liao, Xiaochuan       SaB06-6	23 25 23 24 23 C 21 O, C 25 29 22 29 28 27 24
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-         SaA04-1       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaA03-3         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5         K         Kang, Wenxiong       SaA06-         SaB04-4       SaB06-	23 CC 22 25 27 21 23 21 O 24 O 24	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01         SaA01-2       SaB01         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3         Liao, Runlong       SuA02-3         Liao, Xiaochuan       SaB06-6         Lin, Mengying       SuA04-5	23 25 23 24 23 C 21 O, C 25 29 22 29 28 27 24 28
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-1         Saposter-08       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaA03-3         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5         K         Kang, Wenxiong       SaA06         SaB04-4       SaB06-6         Kong, He       SaA01         SaB01	23 CC 22 25 27 21 23 21 O 24 O, CC	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01-2         SaB01-2       SaB01         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3         Liao, Runlong       SuA02-3         Liao, Xiaochuan       SaB06-6         Lin, Mengying       SuA04-5         Lin, Mingduo       SuA04-1	23 25 23 24 23 C 21 O, C 25 29 22 29 28 27 24 28 28
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-         SaA04-1       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaA03-3         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5         K       K         Kang, Wenxiong       SaA06         SaB06-6       SaB06-6         Kong, He       SaA01         SaB01       SaB01         L       SaB01	23 CC 22 25 27 21 23 21 O 24 O, CC O, CC	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01-2         SaB01-2       SaB01-2         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3         Liao, Runlong       SuA02-3         Liao, Xiaochuan       SaB06-6         Lin, Mengying       SuA04-5         Lin, Mingduo       SuA04-1         Lin, Yifu       SuB05-3	23 25 23 24 23 C 21 O, C 25 29 22 29 28 27 24 28 28 30
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-         SaA04-1       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaA03-3         Jin, Yuyue       SaA01-5         K         Kang, Wenxiong       SaA06         SaB06-6       SaB06-6         Kong, He       SaA01         SaB01       SaB01         L       Lan, Haitao	23 CC 22 25 27 21 23 21 0 24 0, CC 0, CC	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01-2         SaB01-2       SaB01         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3         Liao, Runlong       SuA02-3         Liao, Xiaochuan       SaB06-6         Lin, Mengying       SuA04-5         Lin, Mingduo       SuA04-1         Lin, Yifu       SuB05-3         Lin, Zhijie       SaB06-5	23 25 23 24 23 C 21 O, C 25 29 22 29 28 27 24 28 28 30 24
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-1         Saposter-08       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaA03-3         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5         K         Kang, Wenxiong       SaA06         SaB06-6       SaB06-6         Kong, He       SaA01         SaB01       SaB01         L       L         Lan, Haitao       SuA02-2         Li, Ang       SuB04-6	23 CC 22 25 27 21 23 21 O 24 O, CC O, CC	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01-2         SaB01-2       SaB01         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3         Liao, Runlong       SuA02-3         Liao, Xiaochuan       SaB06-6         Lin, Mengying       SuA04-1         Lin, Yifu       SuB05-3         Lin, Zhijie       SaB06-5         Lin, Zhu       SuA03-2	23 25 23 24 23 C 21 O, C 25 29 22 29 28 27 24 28 28 30 24 27
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-1         Saposter-08       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5         K         Kang, Wenxiong       SaA06         SaB06-6       SaB06-6         Kong, He       SaA01         SaB01       SaB01         L       Lan, Haitao       SuA02-2         Li, Ang       SuB04-6         Li, Chao       SaA02-1	23 CC 22 25 27 21 23 21 0 24 0, CC 0, CC 0, CC	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01-2         SaB01-2       SaB01         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3         Liao, Runlong       SuA02-3         Liao, Xiaochuan       SaB06-6         Lin, Mengying       SuA04-5         Lin, Mingduo       SuA04-1         Lin, Yifu       SuB05-3         Lin, Zhijie       SaB06-5         Lin, Zhu       SuA03-2         Liu, Binghong       SaPoster-10	23 25 23 24 23 C 21 O, C 25 29 22 29 28 27 24 28 30 24 27 25
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-1         Saposter-08       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5         K         Kang, Wenxiong       SaA06         SaB04-4       SaB06-6         Kong, He       SaA01         L       L         Lan, Haitao       SuB02-2         Li, Ang       SuB04-6         Li, Chao       SaA02-1         SaA04-4	23 CC 22 25 27 21 23 21 O 24 O, CC O, CC O, CC	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01-2         SaB01-2       SaB01         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3         Liao, Runlong       SuA02-3         Liao, Xiaochuan       SaB06-6         Lin, Mengying       SuA04-5         Lin, Mingduo       SuA04-1         Lin, Yifu       SuB05-3         Lin, Zhijie       SaB06-5         Lin, Zhu       SuA03-2         Liu, Binghong       SaPoster-10         Liu, Chang       SaB01-1	23 25 23 24 23 C 21 O, C 25 29 22 29 28 27 24 28 30 24 27 25 22
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-1         Saposter-08       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5         K         Kang, Wenxiong       SaA06         SaB06-6       SaB06-6         Kong, He       SaA01         L       L         Lan, Haitao       SuA02-2         Li, Ang       SuB04-6         Li, Chao       SaA02-1         SaA04-4       SuA03-6	23 CC 22 25 27 21 23 21 0 24 0, CC 0, CC 0, CC	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01-2         SaB01       SaB01-2         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3         Liao, Runlong       SuA02-3         Liao, Xiaochuan       SaB06-6         Lin, Mengying       SuA04-5         Lin, Mingduo       SuA04-1         Lin, Zhijie       SaB06-5         Lin, Zhu       SuA03-2         Liu, Binghong       SaPoster-10         Liu, Chang       SaB01-1         Liu, Chunxiuzi       SuA04-3	23 25 23 24 23 C 21 O, C 25 29 22 29 28 27 24 28 30 24 27 25 22 22 28
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-1         SaA04-1       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaA03-3         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5         K       K         Kang, Wenxiong       SaB06-4         SaB06-6       SaB06-6         Kong, He       SaA01         SaB01       SaB01         L       Lan, Haitao       SuA02-2         Li, Ang       SuB04-6         Li, Chao       SaA02-1         SaA04-4       SuA03-6         Li, Chong       SaA01-3	23 CC 22 25 27 21 23 21 0 24 0, CC 0, CC 0, CC	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01-2         SaB01       SaB01-2         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3         Liao, Runlong       SuA02-3         Liao, Xiaochuan       SaB06-6         Lin, Mengying       SuA04-5         Lin, Mingduo       SuA04-1         Lin, Yifu       SuB05-3         Lin, Zhijie       SaB06-5         Lin, Zhu       SuA03-2         Liu, Binghong       SaPoster-10         Liu, Chang       SaB01-1         Liu, Chunxiuzi       SuA04-3         Liu, Cungen       SuB01-3	23 25 23 24 23 C 21 O, C 25 29 22 29 28 27 24 28 28 30 24 27 25 22 22 28
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-1         SaA04-1       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaA03-3         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5         K       K         Kang, Wenxiong       SaB06-4         SaB06-6       SaB06-6         Kong, He       SaA01         SaB01       SaB01         L       L         Lan, Haitao       SuA02-2         Li, Ang       SuB04-6         Li, Chao       SaA02-1         SaA04-4       SuA03-6         Li, Chong       SaA01-3         Li, Chunquan       SaA06-6	23 CC 22 25 27 21 23 21 O 24 O, CC O, CC 27 30 21 22 28 21 22	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01-2         SaB01       SaB01-2         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3         Liao, Runlong       SuA02-3         Liao, Xiaochuan       SaB06-6         Lin, Mengying       SuA04-5         Lin, Mingduo       SuA04-1         Lin, Yifu       SuB05-3         Lin, Zhijie       SaB06-5         Lin, Zhu       SuA03-2         Liu, Binghong       SaPoster-10         Liu, Chang       SaB01-1         Liu, Chunxiuzi       SuA04-3         Liu, Cungen       SuB05-1	23 25 23 24 23 C 21 O, C 25 29 22 29 28 27 24 28 28 30 24 27 25 22 28 29 24
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-1         Saposter-08       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5         K         Kang, Wenxiong       SaB06-4         SaB06-6       SaB06-6         Kong, He       SaA01         L       SuA02-2         Li, Ang       SuB04-6         Li, Chao       SaA02-1         SaA04-4       SuA03-6         Li, Chong       SaA01-3         Li, Chunquan       SaA06-6         Li, Dan       SuB01-1	23 CC 22 25 27 21 23 21 O 24 O, CC O, CC 27 30 21 22 28 21 22 28	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01-2         SaB01       SaB01-2         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3         Liao, Runlong       SuA02-3         Liao, Xiaochuan       SaB06-6         Lin, Mengying       SuA04-5         Lin, Mingduo       SuA04-1         Lin, Zhijie       SaB06-5         Lin, Zhijie       SaB06-5         Lin, Zhu       SuA03-2         Liu, Binghong       SaPoster-10         Liu, Chang       SaB01-1         Liu, Chunxiuzi       SuA04-3         Liu, Derong       SaB05-1         SuA04-1	23 25 23 24 23 C 21 O, C 25 29 22 29 28 27 24 28 28 30 24 27 25 22 28 29 24 28 29 24 28
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-1         Saposter-08       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5         K         Kang, Wenxiong       SaB06-4         SaB06-6       SaB06-6         Kong, He       SaA01         SaB01       SaB01         L       Lan, Haitao       SuA02-2         Li, Ang       SuB04-6         Li, Chao       SaA02-1         SaA04-4       SuA03-6         Li, Chong       SaA01-3         Li, Chunquan       SaA06-6         Li, Dan       SuB01-1         Li, Dewei       SaB01-5	23 CC 22 25 27 21 23 21 O 24 O, CC O, CC 27 30 21 22 28 21 22 28 21	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01-2         SaB01       SaB01-2         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3         Liao, Runlong       SuA02-3         Liao, Xiaochuan       SaB06-6         Lin, Mengying       SuA04-5         Lin, Mingduo       SuA04-1         Lin, Zhijie       SaB06-5         Lin, Zhijie       SaB06-5         Lin, Zhu       SuA03-2         Liu, Binghong       SaPoster-10         Liu, Chang       SaB01-1         Liu, Chunxiuzi       SuA04-3         Liu, Derong       SaB05-1         SuA04-1       SuA04-1         Liu, Fan       SaA01-5	23 25 23 24 23 C 21 O, C 25 29 22 29 28 27 24 28 28 30 24 27 25 22 28 29 24 27 25 22 28 27 25 26 27 27 28 28 28 27 28 28 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-1         Jiang, Yongxiang       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5         K       K         Kang, Wenxiong       SaB06-4         SaB06-6       SaB06-6         Kong, He       SaA01         SaB01       SaB01         L       L         Lan, Haitao       SuA02-2         Li, Ang       SuB04-6         Li, Chao       SaA02-1         SaA04-4       SuA03-6         Li, Chong       SaA01-3         Li, Chunquan       SaA06-6         Li, Dan       SuB01-1         Li, Dewei       SaB01-5         Li, Dongqi       SaPoster-11	23 CC 22 25 27 21 23 21 O 24 O, CC O, CC 27 30 21 22 28 21 22 28 21 22 28 23 25	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01-2         SaB01       SaB01-2         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3         Liao, Runlong       SuA02-3         Liao, Xiaochuan       SaB06-6         Lin, Mengying       SuA04-5         Lin, Mingduo       SuA04-5         Lin, Zhijie       SaB06-5         Lin, Zhijie       SaB06-5         Lin, Zhu       SuA03-2         Liu, Binghong       SaPoster-10         Liu, Chang       SaB01-1         Liu, Chunxiuzi       SuA04-3         Liu, Derong       SaB05-1         SuA04-1       SuA04-1         Liu, Fan       SaA01-5         SuA03-4	23 25 23 24 23 C 21 O, C 25 29 22 29 28 27 24 28 28 30 24 27 25 22 28 29 24 28 29 24 28 29 24 28 29 24 28 28 29 20 21 21 21 21 21 21 21 21 21 21 21 21 21
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-1         Sandy Sandy       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5         K         Kang, Wenxiong       SaB01-4         SaB06-6       SaB06-6         Kong, He       SaA01         SaB01       L         Lan, Haitao       SuA02-2         Li, Ang       SuB04-6         Li, Chao       SaA02-1         SaA04-4       SuA03-6         Li, Chong       SaA01-3         Li, Chunquan       SaA06-6         Li, Dan       SuB01-1         Li, Dewei       SaB01-5         Li, Dongqi       SaPoster-30	23 CC 22 25 27 21 23 21 O 24 O, CC O, CC O, CC 27 30 21 22 28 21 22 28 21 22 28 23 25 26	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01-2         SaB01       SaB01-2         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3         Liao, Runlong       SuA02-3         Liao, Xiaochuan       SaB06-6         Lin, Mengying       SuA04-5         Lin, Mingduo       SuA04-1         Lin, Zhijie       SaB06-5         Lin, Zhijie       SaB06-5         Lin, Zhu       SuA03-2         Liu, Binghong       SaPoster-10         Liu, Chang       SaB01-1         Liu, Chunxiuzi       SuA04-3         Liu, Derong       SaB05-1         SuA04-1       SuA04-1         Liu, Fan       SaA01-5         SuA03-4       SuA03-4         Liu, Fangda       SuA05-1	23 25 23 24 23 C 21 O, C 25 29 22 29 28 27 24 28 28 30 24 27 25 22 28 29 24 28 29 24 28 29 24 28 28 29 24 26 27 27 28 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-1         Saposter-08       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5         K       K         Kang, Wenxiong       SaA06         SaB04-4       SaB06-6         Kong, He       SaA01         SaB01       SaB01         L       L         Lan, Haitao       SuA02-2         Li, Ang       SuB04-6         Li, Chao       SaA02-1         SaA04-4       SuA03-6         Li, Chong       SaA01-3         Li, Chunquan       SaA06-6         Li, Dan       SuB01-1         Li, Dewei       SaB01-5         Li, Dongqi       SaPoster-11         Li, Guang       SaPoster-30         Li, Guiyuan       SuA02-7	23 CC 22 25 27 21 23 21 O 24 O, CC O, CC O, CC 27 30 21 22 28 21 22 28 21 22 28 23 25 26 27	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01-2         SaB01       SaB01-2         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3         Liao, Runlong       SuA02-3         Liao, Xiaochuan       SaB06-6         Lin, Mengying       SuA04-5         Lin, Mingduo       SuA04-1         Lin, Zhijie       SaB06-5         Lin, Zhijie       SaB06-5         Lin, Zhu       SuA03-2         Liu, Binghong       SaPoster-10         Liu, Chang       SaB01-1         Liu, Chunxiuzi       SuA04-3         Liu, Cungen       SuB01-3         Liu, Derong       SaB05-1         SuA04-1       SuA04-1         Liu, Fan       SaA01-5         SuA03-4       Liu, Fangda         Liu, Fengfeng       SuA05-2	23 25 23 24 23 C 21 O, C 25 29 22 29 28 27 24 28 27 25 22 28 29 24 27 25 22 28 29 24 27 25 22 28 28 27 28 28 28 28 28 28 28 28 28 28 28 28 28
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-1         Saposter-08       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5         K       K         Kang, Wenxiong       SaA06         SaB04-4       SaB06-6         Kong, He       SaA01         SaB01       SaB01         L       L         Lan, Haitao       SuA02-2         Li, Ang       SuB04-6         Li, Chao       SaA02-1         SaA04-4       SuA03-6         Li, Chong       SaA01-3         Li, Chunquan       SaA06-6         Li, Dan       SuB01-1         Li, Dewei       SaB01-5         Li, Dongqi       SaPoster-11         Li, Guang       SaPoster-30         Li, Guiyuan       SuA02-7         Li, Haoran       SaPoster-14	23 CC 22 25 27 21 23 21 O 24 O, CC O, CC O, CC 27 30 21 22 28 21 22 28 21 22 28 21 22 26 27 25 27 27 27 28 21 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01-2         SaB01       SaB01-2         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3         Liao, Runlong       SuA02-3         Liao, Xiaochuan       SaB06-6         Lin, Mengying       SuA04-5         Lin, Mingduo       SuA04-1         Lin, Zhijie       SaB06-5         Lin, Zhijie       SaB06-5         Lin, Zhu       SuA03-2         Liu, Binghong       SaPoster-10         Liu, Chang       SaB01-1         Liu, Chunxiuzi       SuA04-3         Liu, Cungen       SuB01-3         Liu, Derong       SaB05-1         SuA04-1       SuA04-1         Liu, Fan       SaA01-5         SuA03-4       Liu, Fangda         Liu, Fengfeng       SuA05-2         Liu, Guilong       SuB03-4	23 25 23 24 23 C 21 O, C 25 29 22 29 28 27 24 28 28 27 25 22 28 29 24 27 25 22 28 29 24 27 25 22 28 29 24 27 25 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-1         Saposter-08       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5         K       K         Kang, Wenxiong       SaA06         SaB04-4       SaB06-6         Kong, He       SaA01         SaB01       SaB01         L       L         Lan, Haitao       SuA02-2         Li, Ang       SuB04-6         Li, Chao       SaA02-1         SaA04-4       SuA03-6         Li, Chong       SaA01-3         Li, Chunquan       SaA06-6         Li, Dan       SuB01-1         Li, Dewei       SaB01-5         Li, Dongqi       SaPoster-11         Li, Guang       SaPoster-30         Li, Guiyuan       SuA02-7         Li, Haoran       SaPoster-14         Li, Hong       SuB05-4	23 CC 22 25 27 21 23 21 O 24 O, CC O, CC O, CC 27 30 21 22 28 21 22 28 21 22 28 21 22 28 21 22 23 21	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01-2         SaB01       SaB01-2         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3         Liao, Runlong       SuA02-3         Liao, Xiaochuan       SaB06-6         Lin, Mengying       SuA04-5         Lin, Mingduo       SuA04-1         Lin, Zhijie       SaB06-5         Lin, Zhijie       SaB06-5         Lin, Zhijie       SaB06-5         Lin, Zhu       SuA03-2         Liu, Binghong       SaPoster-10         Liu, Chang       SaB01-1         Liu, Chunxiuzi       SuA04-3         Liu, Cungen       SaB05-1         SuA04-1       SuA04-3         Liu, Fan       SaA01-5         SuA03-4       SuA05-1         Liu, Fangda       SuA05-2         Liu, Guilong       SuB03-4 <t< td=""><td>23 25 23 24 23 C 21 O, C 25 29 22 29 28 27 24 28 27 25 22 28 29 24 27 25 22 28 29 24 27 25 22 28 29 24 27 25 26 27 27 28 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20</td></t<>	23 25 23 24 23 C 21 O, C 25 29 22 29 28 27 24 28 27 25 22 28 29 24 27 25 22 28 29 24 27 25 22 28 29 24 27 25 26 27 27 28 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20
Jiang, Weili       SaB02-4         Jiang, Yan       SaA04-1         Saposter-08       SaPoster-08         Jiao, Shanshan       SuA01-4         Jin, Xin       SaB01-4         Jin, Yuyue       SaA01-5         K       K         Kang, Wenxiong       SaA06         SaB04-4       SaB06-6         Kong, He       SaA01         SaB01       SaB01         L       L         Lan, Haitao       SuA02-2         Li, Ang       SuB04-6         Li, Chao       SaA02-1         SaA04-4       SuA03-6         Li, Chong       SaA01-3         Li, Chunquan       SaA06-6         Li, Dan       SuB01-1         Li, Dewei       SaB01-5         Li, Dongqi       SaPoster-11         Li, Guang       SaPoster-30         Li, Guiyuan       SuA02-7         Li, Haoran       SaPoster-14	23 CC 22 25 27 21 23 21 O 24 O, CC O, CC O, CC 27 30 21 22 28 21 22 28 21 22 28 21 22 26 27 25 27 27 27 28 21 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	Li, Yuxiang       SaB03-4         Li, Zhe       SaPoster-18         Liang, Guojie       SaB01-4         Liang, Hao       SaB06-5         Liang, Jiayang       SaB03-4         Liang, Jinling       SaA01-2         SaB01       SaB01-2         Liang, Li       SaPoster-12         Liang, Liang       SuB02-6         Liang, Mingming       SaA05-6         Liang, Shufan       SuB02-1         Liang, Yuling       SuA03-3         Liao, Runlong       SuA02-3         Liao, Xiaochuan       SaB06-6         Lin, Mengying       SuA04-5         Lin, Mingduo       SuA04-1         Lin, Zhijie       SaB06-5         Lin, Zhijie       SaB06-5         Lin, Zhu       SuA03-2         Liu, Binghong       SaPoster-10         Liu, Chang       SaB01-1         Liu, Chunxiuzi       SuA04-3         Liu, Cungen       SuB01-3         Liu, Derong       SaB05-1         SuA04-1       SuA04-1         Liu, Fan       SaA01-5         SuA03-4       Liu, Fangda         Liu, Fengfeng       SuA05-2         Liu, Guilong       SuB03-4	23 25 23 24 23 C 21 O, C 25 29 22 29 28 27 24 28 28 27 25 22 28 29 24 27 25 22 28 29 24 27 25 22 28 29 24 27 25 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28

CSIS-IAC 2023 Author Index

SuB03-3	29	0	
Liu, Jiahui	25	Ou, LinlinSaA01-6	21
Liu, Jianwei	28	Ou, Limin	21
		Р	
Liu, Jinfa SaA06-5	22	Pan, An	22
Liu, JunhaoSuB05-5	30		22
Liu, Kun SaB06-6	24	Pan, Shuang	
Liu, Meihong SuB04-6	30	Pan, SijinSaA05-4	22
Liu, Na	29	Pan, YongpingSuB03	0
Liu, PandiSaPoster-10	25	SuB03-2	29
	26	SuB03-3	29
Liu, Penghui		Pei, Chao	24
Liu, Ruide SaB02-3	23	Peng, Kaixiang SuB01-1	28
Liu, Sanmei SuB02-7	29	Pogodaev, Anatolii KSuB01-2	29
Liu, Shihang SaPoster-25	26		
Liu, Shujia SaPoster-27	26	Pu, Huang SaPoster-21	25
Liu, Tao	C	Pu, Zhiqiang SuB05-1	30
		Q	
Liu, Wei	24		
Liu, Xiaoping SaA06-6	22	Qian, Guangwu SuA02-4	27
Liu, XinSaPoster-09	25	Qian, RongSuA03-2	27
Liu, XinruSaA01-3	21	Qin, Nianping SuB02-4	29
Liu, Yahui SuA01-3	27	Qing, Hongyu SaB03-5	23
Liu, Yan	22	Qiu, Jianlong SaB01-3	23
			30
Liu, Yanchao SaA03-4	21	Qiu, Kaifeng	
SaB03-2	23	Qiu, Tenghai	CC
SuA05-6	28	SuB05-1	30
Liu, YagiSuB02-2	29	Qu, Hong	23
Liu, Yixuan SaB02-2	23	SaB03-6	23
•	24	SuB05-2	30
Liu, Yonggang			
SaB04-6	24	R	
Liu, Yu SuA04-3	28	Ran, JielongSaB04-4	24
Liu, Yueying SaPoster-07	25	Ren, Xin SaPoster-25	26
Liu, YunjieSuB02-5	29	·	
•	30	Ren, Xusheng SaA03-2	21
Liu, ZhigangSuB04-5		S	
Liu, ZhiqiangSaPoster-06	25		
Long, Sihui	24	Shakeel, Muhammad SaadSaB06-6	24
Long, ZhiliSaB03-4	23	Shang, Chunlin	25
Lu, Chengzhuo	23	Shao, Jun SuB02-5	29
Lu, Jianquan SaA01-1	21	Shao, Xiangxin SaPoster-08	25
·		Shao, ZhiSuA03-3	28
Lu, PengSaPoster-17	25	Sharma, Harsh MohanSaPoster-01	25
Lu, ShengSuB04-6	30		27
Luan, Fujin	30	She, Jiayan SuA02-6	
Luan, Meng SaB01-2	23	Shen, Hao SaA05	CC
Luo, Biao	O, C	SaA05-2	22
SaA02-4	21	Sheng, Jinhua SaPoster-21	25
		Shi, Huiyuan SaA02-3	21
Luo, Mingyue	28	SaA02-6	21
Luo, Shi Jie SaPoster-03	25	SaA04-6	22
Luo, Weilin	23	Shi, Xiasheng SuB04-3	30
SuA02-2	27	, •	
Luo, Yamei	22	Si, Bailu SaPoster-27	26
		Si, PileiSaB02-6	23
Luo, Yanhong SuA04	С	Song, Qiankun	24
Lv, Yiming SaPoster-16	25	Song, Ruizhuo	CC
Lv, YishengSuA01	O, CC	SuA01	0
SuA01-3	27	SuA01-1	27
Lv, Yongfeng	CC	SuA01-5	27
SuB04-1	30		
	50	Song, XinSaPoster-22	25
M		0 Vi-	
		Song, XinSaPoster-24	26
		Song, Ying SuA02-5	27
Ma, Bing	30		
Ma, Bing       SuB04-2         Ma, Qingwen       SuA04-6		Song, Ying SuA02-5	27
Ma, Bing       SuB04-2         Ma, Qingwen       SuA04-6	30	Song, Ying         SuA02-5           SuB02-6         Su, Chengli           SaA02-6         SaA02-6	27 29 21
Ma, Bing       SuB04-2         Ma, Qingwen       SuA04-6         Ma, Ruicheng       SaA05-3	30 28	Song, Ying       SuA02-5         SuB02-6       Su, Chengli         Su, Hanguang       SaA01-5	27 29 21 21
Ma, Bing       SuB04-2         Ma, Qingwen       SuA04-6         Ma, Ruicheng       SaA05-3         Meng, Di       SaB05-5	30 28 22 24	Song, Ying       SuA02-5         SuB02-6       Su, Chengli         Su, Chengli       SaA02-6         Su, Hanguang       SaA01-5         SaA02-2	27 29 21 21 21
Ma, Bing       SuB04-2         Ma, Qingwen       SuA04-6         Ma, Ruicheng       SaA05-3         Meng, Di       SaB05-5         Meng, Wenchao       SuA03-6	30 28 22 24 28	Song, Ying       SuA02-5         SuB02-6       SuB02-6         Su, Chengli       SaA02-6         Su, Hanguang       SaA01-5         SaA02-2       SuA03	27 29 21 21 21 O, C
Ma, Bing       SuB04-2         Ma, Qingwen       SuA04-6         Ma, Ruicheng       SaA05-3         Meng, Di       SaB05-5         Meng, Wenchao       SuA03-6         Miao, Zibo       SaA05-4	30 28 22 24 28 22	Song, Ying       SuA02-5         SuB02-6       SuB02-6         Su, Chengli       SaA02-6         Su, Hanguang       SaA01-5         SaA02-2       SuA03         SuA03-3       SuA03-3	27 29 21 21 21 O, C
Ma, Bing       SuB04-2         Ma, Qingwen       SuA04-6         Ma, Ruicheng       SaA05-3         Meng, Di       SaB05-5         Meng, Wenchao       SuA03-6         Miao, Zibo       SaA05-4         Mu, Chaoxu       SuB04-3	30 28 22 24 28 22 30	Song, Ying       SuA02-5         SuB02-6       SuB02-6         Su, Chengli       SaA02-6         Su, Hanguang       SaA01-5         SaA02-2       SuA03         SuA03-3       SuA03-4	27 29 21 21 21 O, C
Ma, Bing       SuB04-2         Ma, Qingwen       SuA04-6         Ma, Ruicheng       SaA05-3         Meng, Di       SaB05-5         Meng, Wenchao       SuA03-6         Miao, Zibo       SaA05-4         Mu, Chaoxu       SuB04-3	30 28 22 24 28 22	Song, Ying       SuA02-5         SuB02-6       SuB02-6         Su, Chengli       SaA02-6         Su, Hanguang       SaA01-5         SaA02-2       SuA03         SuA03-3       SuA03-3	27 29 21 21 21 O, C
Ma, Bing       SuB04-2         Ma, Qingwen       SuA04-6         Ma, Ruicheng       SaA05-3         Meng, Di       SaB05-5         Meng, Wenchao       SuA03-6         Miao, Zibo       SaA05-4         Mu, Chaoxu       SuB04-3	30 28 22 24 28 22 30	Song, Ying       SuA02-5         SuB02-6       SuB02-6         Su, Chengli       SaA02-6         Su, Hanguang       SaA01-5         SaA02-2       SuA03         SuA03-3       SuA03-4	27 29 21 21 21 O, C 28 28
Ma, Bing       SuB04-2         Ma, Qingwen       SuA04-6         Ma, Ruicheng       SaA05-3         Meng, Di       SaB05-5         Meng, Wenchao       SuA03-6         Miao, Zibo       SaA05-4         Mu, Chaoxu       SuB04-3         Mu, Yunfei       SuA03-5	30 28 22 24 28 22 30 O, CC	Song, Ying       SuA02-5         SuB02-6       SuB02-6         Su, Chengli       SaA02-6         Su, Hanguang       SaA01-5         SaA02-2       SuA03         SuA03-3       SuA03-3         SuA03-4       SuA03-5         Sun, Changyin       SuB04-3	27 29 21 21 21 O, C 28 28 28
Ma, Bing       SuB04-2         Ma, Qingwen       SuA04-6         Ma, Ruicheng       SaA05-3         Meng, Di       SaB05-5         Meng, Wenchao       SuA03-6         Miao, Zibo       SaA05-4         Mu, Chaoxu       SuB04-3         Mu, Yunfei       SuA03	30 28 22 24 28 22 30 O, CC	Song, Ying       SuA02-5         SuB02-6       SuB02-6         Su, Chengli       SaA02-6         Su, Hanguang       SaA01-5         SaA02-2       SuA03         SuA03-3       SuA03-3         SuA03-4       SuA03-5         Sun, Changyin       SuB04-3         Sun, Jianqiang       SaB01-3	27 29 21 21 21 O, C 28 28 28 30 23
Ma, Bing       SuB04-2         Ma, Qingwen       SuA04-6         Ma, Ruicheng       SaA05-3         Meng, Di       SaB05-5         Meng, Wenchao       SuA03-6         Miao, Zibo       SaA05-4         Mu, Chaoxu       SuB04-3         Mu, Yunfei       SuA03-5         N	30 28 22 24 28 22 30 O, CC 28	Song, Ying       SuA02-5         Su B02-6       Su B02-6         Su, Chengli       SaA02-6         Su, Hanguang       SaA01-5         SaA02-2       SuA03         SuA03-3       SuA03-3         SuA03-4       SuA03-5         Sun, Changyin       SuB04-3         Sun, Jianqiang       SaB01-3         Sun, Jiaqi       SaA04-5	27 29 21 21 21 O, C 28 28 30 23 22
Ma, Bing       SuB04-2         Ma, Qingwen       SuA04-6         Ma, Ruicheng       SaA05-3         Meng, Di       SaB05-5         Meng, Wenchao       SuA03-6         Miao, Zibo       SaA05-4         Mu, Chaoxu       SuB04-3         Mu, Yunfei       SuA03-5         N         Na, Qin       SaPoster-05	30 28 22 24 28 22 30 O, CC 28	Song, Ying       SuA02-5         Su B02-6       SuB02-6         Su, Chengli       SaA02-6         Su, Hanguang       SaA01-5         SuA03-2       SuA03-3         SuA03-3       SuA03-4         SuA03-5       SuA03-5         Sun, Changyin       SuB04-3         Sun, Jianqiang       SaB01-3         Sun, Lei       SaB01-1	27 29 21 21 21 O, C 28 28 30 23 22 22
Ma, Bing       SuB04-2         Ma, Qingwen       SuA04-6         Ma, Ruicheng       SaA05-3         Meng, Di       SaB05-5         Meng, Wenchao       SuA03-6         Miao, Zibo       SaA05-4         Mu, Chaoxu       SuB04-3         Mu, Yunfei       SuA03-5         N         Na, Qin       SaPoster-05         Ning, Gang       SuA02-6	30 28 22 24 28 22 30 O, CC 28 25 27	Song, Ying       SuA02-5         Su B02-6       Su B02-6         Su, Chengli       SaA02-6         Su, Hanguang       SaA01-5         SuA03-2       SuA03-3         SuA03-3       SuA03-4         SuA03-5       SuA03-5         Sun, Changyin       SuB04-3         Sun, Jianqiang       SaB01-3         Sun, Lei       SaB01-1         Sun, Qiubai       SaA02-3	27 29 21 21 21 O, C 28 28 30 23 22 22
Ma, Bing       SuB04-2         Ma, Qingwen       SuA04-6         Ma, Ruicheng       SaA05-3         Meng, Di       SaB05-5         Meng, Wenchao       SuA03-6         Miao, Zibo       SaA05-4         Mu, Chaoxu       SuB04-3         Mu, Yunfei       SuA03-5         N         Na, Qin       SaPoster-05         Ning, Gang       SuA02-6         Niu, Hao       SaB02-4	30 28 22 24 28 22 30 O, CC 28 25 27 23	Song, Ying       SuA02-5         Su B02-6       Su B02-6         Su, Chengli       SaA02-6         Su, Hanguang       SaA01-5         SaA02-2       SuA03         SuA03-3       SuA03-3         SuA03-4       SuA03-5         Sun, Changyin       SuB04-3         Sun, Jianqiang       SaB01-3         Sun, Jiaqi       SaA04-5         Sun, Lei       SaB01-1         Sun, Qiubai       SaA02-3         Sun, Wei       SaA01-4	27 29 21 21 21 O, C 28 28 30 23 22 22 21 21
Ma, Bing       SuB04-2         Ma, Qingwen       SuA04-6         Ma, Ruicheng       SaA05-3         Meng, Di       SaB05-5         Meng, Wenchao       SuA03-6         Miao, Zibo       SaA05-4         Mu, Chaoxu       SuB04-3         Mu, Yunfei       SuA03-5         N         Na, Qin       SaPoster-05         Ning, Gang       SuA02-6	30 28 22 24 28 22 30 O, CC 28 25 27	Song, Ying       SuA02-5         Su B02-6       Su B02-6         Su, Chengli       SaA02-6         Su, Hanguang       SaA01-5         SuA03-2       SuA03-3         SuA03-3       SuA03-4         SuA03-5       SuA03-5         Sun, Changyin       SuB04-3         Sun, Jianqiang       SaB01-3         Sun, Lei       SaB01-1         Sun, Qiubai       SaA02-3	27 29 21 21 21 O, C 28 28 30 23 22 22
Ma, Bing       SuB04-2         Ma, Qingwen       SuA04-6         Ma, Ruicheng       SaA05-3         Meng, Di       SaB05-5         Meng, Wenchao       SuA03-6         Miao, Zibo       SaA05-4         Mu, Chaoxu       SuB04-3         Mu, Yunfei       SuA03-5         N         Na, Qin       SaPoster-05         Ning, Gang       SuA02-6         Niu, Hao       SaB02-4	30 28 22 24 28 22 30 O, CC 28 25 27 23	Song, Ying       SuA02-5         Su B02-6       Su B02-6         Su, Chengli       SaA02-6         Su, Hanguang       SaA01-5         SaA02-2       SuA03         SuA03-3       SuA03-3         SuA03-4       SuA03-5         Sun, Changyin       SuB04-3         Sun, Jianqiang       SaB01-3         Sun, Jiaqi       SaA04-5         Sun, Lei       SaB01-1         Sun, Qiubai       SaA02-3         Sun, Wei       SaA01-4	27 29 21 21 21 O, C 28 28 30 23 22 22 21 21

Technical Program CSIS-IAC 2023

Т		SuA01-4	27
Tan, Futian SaA05-1	22	SuA01-4	27
	CC	Wei, Xiaosong	27
Tan, Fuxiao		Wei, Yan	21
SuA05-4	28	Wei, Zhenning	25
Tan, Ning	24	Wei, Ziang	28
Tan, Shengbo	23		24
Tan, Xiangjie	23	Wenxiao, Tang	
Tang, Bin	22	Wu, JiachengSaA05-2	22
Tang, Huanling SaA03-4	21	Wu, Jianhong	29
SaB03-2	23	Wu, JiankaiSaB04-1	23
SuA05-6	28	Wu, LibingSuB01-1	28
Tang, Qingjingyi SaB04-3	24	SuB01-7	29
Tang, YuhuaSaA05-5	22	Wu, MingfanSuB04-4	30
Tao, Zhicheng SaA04-4	22	Wu, Mingliang SaA05-1	22
Tian, BinSaPoster-20	25	Wu, Nai Yue SuA03-2	28
W		Wu, Qi SuA04-6	28
· · · · · · · · · · · · · · · · · · ·	0.4	Wu, TianxiongSuA02-5	27
Wan, Hao	24	Wu, Weiming SaB06-6	24
Wan, Meihua	27	Wu, Xiao FenSuA02-4	27
Wang, ChengdiSuB02-1	29	Wu, YujiaoSuA02-4	27
SuB02-5	29	Wu, Zhentao SaA06-2	22
Wang, DieSuA03-2	27	v	
Wang, DongfanSaB01-4	23	X	
Wang, Fan SuB05-6	30	Xia, ChangleiSuA05-1	28
Wang, Hua SaPoster-10	25	Xia, HongbingSuA04-1	28
Wang, Huanqing SuB01	O, C	Xia, Jianwei	21
SuB01-6	29	Xia, Lina SuA01-1	27
Wang, HuiSuB04-5	30	SuA01-5	27
Wang, Jialei SaPoster-21	25	Xiao, Lin SaA06	0
Wang, Jianyong SaB02-4	23	SaA06-3	22
Wang, Jing	22	SaB06	0
Wang, Jingyuan SaPoster-30	26	Xiao, SongyiSaB05-1	24
Wang, Jiyang SaPoster-16	25	Xie, GuodongSaPoster-09	25
Wang, KeSaPoster-10	25	Xie, Haibo SaPoster-04	25
Wang, Lei	25	Xie, Shichang SaB04-1	23
Wang, LidanSaB03	CC	Xie, Yunrui	22
SaB03-1	23	Xie, ZhigangSaPoster-24	26
	25	Xing, Jin SuA03-3	28
Wang, Lituan SuA02-1	27	Xing, Ruifeng SaPoster-08	25
Wang, LuSaB05-3	24	Xing, Shuangyun	22
Wang, Lubin	25	Xing, Gladigytin Sabot-6	23
Wang, Nan SaPoster-32	26	Xu, Hongyu	23 27
Wang, Pei Jun	27	Xu, Wanli SaB05-3	24
Wang, Qian	29		
Wang, Qiang	29 29	Xu, Wei	23
O. O	-	Xu, Xiang SuB04	С
Wang, Qin	24	Xu, Xin	28
Wang, ShandungSuA03-6	28	Xu, Xirui	28
Wang, Shenquan SaB05	C	Xu, Xiuyuan	29
SaB05-5	24	SuB02-5	29
Wang, Shiqi SaA02-3	21	Xu, Yong SaB03-3	23
SaA04-6	22	Xu, Zijun SaB03-4	23
Wang, Shu	25	Xue, Hong Wei SuA02-4	27
Wang, Shubin	26	Xue, LangSaB03-5	23
Wang, Siying	30	Xue, ShanSaB06-2	24
Wang, Su-Mei	21	SuB03-6	30
Wang, Tingting	29	Υ	
Wang, Wei	28		
Wang, Weilin SaPoster-14	25	Yan, Mengxue	23
Wang, Xiangwu SuA05-3	28	Yan, Xueming SaA06-4	22
Wang, Xiaoqi SaPoster-24	26	Yan, Yan	29
Wang, Xu SaB06-5	24	Yang, ChunhuaSaA02-4	21
Wang, Xuesong SuA04-4	28	Yang, Dedong	24
Wang, Yajie SaPoster-19	25	Yang, DonghuSaB01-6	23
Wang, YiboSuA02-3	27	Yang, Dongsheng SaA05-1	22
Wang, Yin	30	SaPoster-14	25
Wang, Yonghua SuA05	С	SuA03-5	28
Wang, YuchenSaB03-5	23	Yang, Guilin SuB03-5	30
Wang, Yun SaA05-2	22	Yang, Jun SaA03-5	21
Wang, Zhen SaPoster-07	25	Yang, Li SuB02-2	29
Wang, Zhiwei SaPoster-05	25	Yang, Luan	21
Wang, Zhongwei SuA03-2	28	Yang, Min SaB06-3	24
Wang, ZhuoSaPoster	C	Yang, Peican	25
	25	Yang, QinminSaA02	CC
SuB05-5	30	SaA02-1	21
Wei, QinglaiSuA01	O, C	SaA04-4	22
, whigh	٥, ٥		

CSIS-IAC 2023 Author Index

28	SuB02	C
29	Zhang, Linli SaB01-5	23
29	Zhang, Liqiang SaB06-5	24
25	Zhang, LunSaA04-2	22
24	Zhang, NaSaA01-3	21
25	Zhang, Naizong SaB05-6	24
23	Zhang, Qi SaB05-5	24
С	Zhang, Qichao SaA02-5	21
	Zhang, QinghuaSaB06-1	24
	Zhang, Ren SuB01-6	29
	5.	25
	Zhang, Shuaibo SaB01-2	23
	Zhang, Tianle SuB05-1	30
	Zhang, WeiSuB02-7	29
	Zhang, WenjieSuA02-3	27
28	Zhang, Xiao SaB04-2	24
29	Zhang, XinglongSuA04	CC
29	SuA04-6	28
22	Zhang, XiumeiSuA05-1	28
22	SuA05-5	28
28	Zhang, XunSaPoster-12	25
29	Zhang, Ya SuB05-2	30
27	Zhang, YanSuB02-3	29
		30
		23
	SaB02-3	23
	SaB03-6	23
	SaPoster-31	26
	SuB02-2	29
	Zhang, Yige SaPoster-03	25
	Zhang, YinyanSuB03	
25	SuB03-1	29
22	Zhang, Yuansheng SaB01-4	23
29		24
30	•	28
21		28
30	<u> </u>	23
22	-	27
29	-	27
23	· · · · · · · · · · · · · · · · · · ·	21
		O, C
		22
		22
23		22
24	SaB06	
	SaB06-1	24
30	Zhao, BoSaB05-1	24 24
30 23	Zhao, Bo	24 24 27
30 23 25	Zhao, Bo       SaB05-1         SuA01-2       SuA04-1	24 27 28
30 23 25 24	Zhao, Bo       SaB05-1         SuA01-2       SuA04-1         Zhao, Jun       SuB04-1	24 24 27 28 30
30 23 25 24 29	Zhao, Bo       SaB05-1         SuA01-2       SuA04-1         Zhao, Jun       SuB04-1         Zhao, Ke       SaB04-2	24 27 28 30 24
30 23 25 24	Zhao, Bo       SaB05-1         SuA01-2       SuA04-1         Zhao, Jun       SuB04-1         Zhao, Ke       SaB04-2         SaB04-6	24 27 28 30 24 24
30 23 25 24 29	Zhao, Bo       SaB05-1         SuA01-2       SuA04-1         Zhao, Jun       SuB04-1         Zhao, Ke       SaB04-2         SaB04-6       SaPoster-03	24 27 28 30 24 24 25
30 23 25 24 29 23	Zhao, Bo       SaB05-1         SuA01-2       SuA04-1         Zhao, Jun       SuB04-1         Zhao, Ke       SaB04-2         SaB04-6       SaP0ster-03         Zhao, Peifeng       SaB01-1	2 <sup>2</sup> 27 28 30 2 <sup>2</sup> 2 <sup>2</sup> 25
30 23 25 24 29 23 30	Zhao, Bo       SaB05-1         SuA01-2       SuA04-1         Zhao, Jun       SuB04-1         Zhao, Ke       SaB04-2         SaB04-6       SaB04-6         Zhao, Nanbin       SaPoster-03         Zhao, Peifeng       SaB01-1         Zhao, Quankai       SaA05-1	24 22 28 30 24 24 22 22
30 23 25 24 29 23 30 24	Zhao, Bo       SaB05-1         SuA01-2       SuA04-1         Zhao, Jun       SuB04-1         Zhao, Ke       SaB04-2         SaB04-6       SaB04-6         Zhao, Nanbin       SaPoster-03         Zhao, Peifeng       SaB01-1         Zhao, Quankai       SaA05-1         Zhao, Yufan       SuA01-5	24 24 30 24 24 25 22 22 22
30 23 25 24 29 23 30 24 28	Zhao, Bo       SaB05-1         SuA01-2       SuA04-1         Zhao, Jun       SuB04-1         Zhao, Ke       SaB04-2         SaB04-6       SaB04-6         Zhao, Nanbin       SaPoster-03         Zhao, Peifeng       SaB01-1         Zhao, Quankai       SaA05-1         Zhao, Yufan       SuA01-5         Zhao, Yuqian       SuB05-1	24 22 30 24 24 25 22 25 30
30 23 25 24 29 23 30 24 28 25	Zhao, Bo       SaB05-1         SuA01-2       SuA04-1         Zhao, Jun       SuB04-1         Zhao, Ke       SaB04-2         SaB04-6       SaB04-6         Zhao, Nanbin       SaPoster-03         Zhao, Peifeng       SaB01-1         Zhao, Quankai       SaA05-1         Zhao, Yufan       SuA01-5         Zhao, Yuqian       SuB05-1         Zhao, Zhitong       SuB05-2	24 22 30 24 24 25 22 25 30 30
30 23 25 24 29 23 30 24 28 25	Zhao, Bo       SaB05-1         SuA01-2       SuA04-1         Zhao, Jun       SuB04-1         Zhao, Ke       SaB04-2         SaB04-6       SaB04-6         Zhao, Nanbin       SaPoster-03         Zhao, Peifeng       SaB01-1         Zhao, Quankai       SaA05-1         Zhao, Yufan       SuA01-5         Zhao, Yuqian       SuB05-1         Zhao, Zhitong       SuB05-2         Zhao, Zhongcong       SaPoster-24	24 22 30 24 24 25 25 30 30 30
30 23 25 24 29 23 30 24 28 25 22 22	Zhao, Bo       SaB05-1         SuA01-2       SuA04-1         Zhao, Jun       SuB04-1         Zhao, Ke       SaB04-2         SaB04-6       SaB04-6         Zhao, Nanbin       SaPoster-03         Zhao, Peifeng       SaB01-1         Zhao, Quankai       SaA05-1         Zhao, Yufan       SuB01-5         Zhao, Yuqian       SuB05-1         Zhao, Zhitong       SuB05-2         Zhao, Zhongcong       SaPoster-24         Zheng, Boyu       SaA06-6	24 25 30 24 25 25 25 27 30 30 26
30 23 25 24 29 23 30 24 28 25 22 22 21 25	Zhao, Bo       SaB05-1         SuA01-2       SuA04-1         Zhao, Jun       SuB04-1         Zhao, Ke       SaB04-2         SaB04-6       SaB04-6         Zhao, Nanbin       SaPoster-03         Zhao, Peifeng       SaB01-1         Zhao, Quankai       SaA05-1         Zhao, Yufan       SuB05-1         Zhao, Yuqian       SuB05-1         Zhao, Zhitong       SaPoster-24         Zheng, Boyu       SaA06-6         Zheng, Zaihong       SaPoster-17	24 27 28 30 24 29 22 22 27 30 26 26 27 28
30 23 25 24 29 23 30 24 28 25 22 21 25 26	Zhao, Bo       SaB05-1         SuA01-2       SuA04-1         Zhao, Jun       SuB04-1         Zhao, Ke       SaB04-2         SaB04-6       SaB04-6         Zhao, Nanbin       SaPoster-03         Zhao, Peifeng       SaB01-1         Zhao, Quankai       SaA05-1         Zhao, Yufan       SuB01-5         Zhao, Yuqian       SuB05-1         Zhao, Zhitong       SaPoster-24         Zheng, Boyu       SaA06-6         Zheng, Zaihong       SaPoster-17         Zhi, Gan       SaA01-5	24 22 30 24 24 22 22 25 30 30 26 26 22 25
30 23 25 24 29 23 30 24 28 25 22 21 25 26 O	Zhao, Bo       SaB05-1         SuA01-2       SuA04-1         Zhao, Jun       SuB04-1         Zhao, Ke       SaB04-2         SaB04-6       SaB04-6         Zhao, Nanbin       SaPoster-03         Zhao, Peifeng       SaB01-1         Zhao, Quankai       SaA05-1         Zhao, Yufan       SuB01-5         Zhao, Yuqian       SuB05-1         Zhao, Zhitong       SaPoster-24         Zheng, Boyu       SaA06-6         Zheng, Zaihong       SaPoster-17         Zhi, Gan       SaA01-5         Zhong, Jie       SuB02-7	22 27 28 30 22 25 22 27 30 30 26 22 25 21
30 23 25 24 29 23 30 24 28 25 22 21 25 26 O	Zhao, Bo       SaB05-1         SuA01-2       SuA04-1         Zhao, Jun       SuB04-1         Zhao, Ke       SaB04-2         SaB04-6       SaB04-6         Zhao, Nanbin       SaPoster-03         Zhao, Peifeng       SaB01-1         Zhao, Quankai       SaA05-1         Zhao, Yufan       SuB01-5         Zhao, Yuqian       SuB05-1         Zhao, Zhitong       SaPoster-24         Zheng, Boyu       SaA06-6         Zheng, Zaihong       SaPoster-17         Zhi, Gan       SaA01-5         Zhong, Jie       SuB02-7         Zhong, Jie       SaA01-1	O, CO 24 24 25 22 27 30 30 26 25 21 29 21
30 23 25 24 29 23 30 24 28 25 22 21 25 26 O	Zhao, Bo       SaB05-1         SuA01-2       SuA04-1         Zhao, Jun       SuB04-1         Zhao, Ke       SaB04-2         SaB04-6       SaB04-6         Zhao, Nanbin       SaPoster-03         Zhao, Peifeng       SaB01-1         Zhao, Quankai       SaA05-1         Zhao, Yufan       SuB01-5         Zhao, Yuqian       SuB05-1         Zhao, Zhitong       SaPoster-24         Zheng, Boyu       SaA06-6         Zheng, Zaihong       SaPoster-17         Zhi, Gan       SaA01-5         Zhong, Jie       SuB02-7	24 27 28 30 24 25 22 27 30 30 26 22 25 21
	29 29 25 24 25 23 C O 27 24 29 O 29 28 29 22 28 29 27 23 30 29 25 25 29 30 21 30 22 29 30 21 30 22 29 30 21 30 22 29 30 21 30 22 29 30 21 30 22 29 30 21 30 22 29 30 21 30 22 29 30 21 30 22 29 30 21 30 22 29 30 21 30 22 29 30 21 30 22 29 30 21 30 22 29 30 21 30 22 29 30 21 30 22 29 30 21 30 22 29 30 21 30 22 29 30 21 30 22 29 30 21 30 22 29 30 21 30 22 29 30 21	29         Zhang, Liqiang         \$a806-5           29         Zhang, Liqiang         \$a806-5           25         Zhang, Lun         \$aA04-2           24         Zhang, Nai         \$a805-6           23         Zhang, Qi         \$a805-5           C         Zhang, Qichao         \$aA02-5           C         Zhang, Qichao         \$a806-1           C         Zhang, Qinghua         \$a806-1           C         Zhang, Qinghua         \$a801-2           C         Zhang, Qinghua         \$a806-1           C         Zhang, Qinghua         \$a806-1           Zhang, Ren         \$u801-2           24         Zhang, Ren         \$u801-2           24         Zhang, Shuaibo         \$a801-2           29         Zhang, Shuaibo         \$a801-2           29         Zhang, Wei         \$u805-1           29         Zhang, Wenjie         \$u802-7           29         Zhang, Xiao         \$a804-2           29         Zhang, Ximglong         \$u804-4           20         Zhang, Ximglong         \$u804-5           28         Zhang, Xu         \$u805-2           29         Zhang, Yan         \$u806-2 </td

Technical Program CSIS-IAC 2023

SuA02-	4 27	SuB02	O. CC
Zhong, Renming SuA02-		SuB02-4	29
Zhou, BotaoSuA03-	2 27	Zhou, Ying	27
Zhou, Bowen	1 22	Zhou, Yuquan	25
Zhou, ChuhaoSuA02-	5 27	•	_
Zhou, Kai SuB02-	5 29	Zhu, Chuanchao	30
Zhou, Kailong SuA05-	1 28	Zhu, Fenghua SaB01-6	23
Zhou, Lingyu SuB02-		Zhu, Haibo SaPoster-28	26
Zhou, Liyuan SaA03-	4 21	Zhu, LiaoSuA04-3	28
SaB03-	2 23	Zhu, Wei	24
SuA05-	6 28	Zhu, XinhuiSaA04-5	22
Zhou, Rusheng SaPoster-2	6 26	Zong, HuchengSaB01-4	23
Zhou, Shijie SaA03-	6 21	-	_
Zhou, Yao	2 O. CC	Zong, YiSuA03-4	28
SaB02-		Zou, Lingwei	29
SuA0	2 O, CC	Zou, Yanying SuB03-2	29
SuA02-	3 27	Zuo, LanshuangSaA02-6	21

CSIS-IAC 2023 Chair/Co-Chair Index

## **Chair/Co-Chair Index**

(C=Chair, CC=Co-Chair)

С	
Chen, Liangming SaB03	С
Chen, MingSuB01	CC
Cheng, Zunshui	CC
D	
Ding, Kemi SaA04	С
Dong, Lu	С
F	
Fan, Quan-Yong	CC
G	
Guo, Dongsheng	CC
SaB06	CC
Guo, Quan SaB02	С
SuA02	С
SuB02	С
J	
Jiang, YanSaA04	CC
K	
Kong, He	CC
SaB01	CC
L	
Li, JinnaSuB05	С
Li, Weibing	С
Liang, Jinling SaA01	С
SaB01	С
Liu, Tao SaB04	С
Luo, BiaoSaA02	С
Luo, Yanhong SuA04	С
Lv, YishengSuA01	CC
Lv, Yongfeng SuB04	CC

M	
Mu, YunfeiSuA03	CC
Q	
Qiu, Tenghai SuB05	CC
· •	
S	
Shen, Hao SaA05	CC
Song, Ruizhuo SaPoster	CC
Su, HanguangSuA03	С
T	
Tan, Fuxiao SuA05	CC
W	
Wang, Huanging SuB01	C
Wang, LidanSaB03	CC
Wang, Shenguan SaB05	C
Wang, Yonghua SuA05	C
Wang, ZhuoSaPoster	С
Wei, Qinglai SuA01	С
X	
Xu, Xiang SuB04	С
Υ	
Yang, QinminSaA02	CC
Yang, Xiong SaA05	С
Z	
Zhang, XinglongSuA04	CC
Zhang, YinyanSuB03	CC
Zhang, Zhijun	С
SaB06	C
Zhong, Jinghui SaB04	CC
Zhou, Yao SaB02	CC
SuA02	CC
SuB02	CC

## **Event Notice (Presentation Instructions)**

#### **Oral Presentation**

- Timing: A maximum of 20 minutes in total, including 2 minutes for Q&A. Please make sure your presentation is well timed.
- All oral session rooms are equipped with data projectors with a standard VGA connector. The speakers could also bring and use their own laptops or other presentation devices. Please check the compatibility of your laptop and the projector before the session starts.
- Videos: If your PowerPoint files contain videos, please make sure that they are well formatted and connected to the main files.

#### **Poster Presentation**

- Poster size is 90cm \* 120cm.
- Posters are required to be condensed and attractive.
- Please print your poster and bring it to the conference venue. Your poster should be displayed on the board marked with your paper ID number.

#### **Dress Code**

• Please wear formal clothes or national characteristics of clothing.

#### **Important Notes**

- Accommodation is not provided. Delegates are suggested make hotel reservation early.
- Please wear your conference badge during the conference. There will be NO access for people without a badge.
- Please show the badge and meal coupons when dining.
- Please take care of your belongings during the conference. The conference organizer does not assume any responsibility for the loss of personal belongings of the participants.

## **Sponsors**

CSIS-IAC 2023 proudly presents our sponsors this year:



IEEE/CAA Journal of Automatica Sinica (JAS) http://www.ieee-jas.org



NOKOV Motion Capture System http://www.nokov.com

## **CSIS-IAC 2024 Call for Papers**

CFP | Welcome Submissions to the 2024 International Annual Conference on Complex Systems and Intelligent Science (CSIS-IAC 2024), September 20–22, 2024, Guangzhou, China.

The 2024 International Annual Conference on Complex Systems and Intelligent Science (CSIS-IAC 2024) will be held in Guangzhou, China, from September 20th to 22nd, 2024. Organized by Guangdong University of Technology, in cooperation with IEEE, the Institute of Automation, Chinese Academy of Sciences (CASIA), and Southern University of Science and Technology (SUSTech), this conference aims to provide a platform for experts, scholars, and engineering professionals in the field of complex systems and intelligent science to showcase their latest research findings and further advance both theoretical and applied aspects of related disciplines. We welcome experts, scholars, and students to participate through paper submissions, invited sessions, and other means. The submission deadline for the conference is July 1, 2024, and you can visit the conference website at <a href="http://www.csisiac.org/">http://www.csisiac.org/</a>. The CSIS-IAC 2024 conference proceedings will be published by IEEE and indexed by EI.

We look forward to your active participation and collaborative exploration of cuttingedge issues in complex systems and intelligent science at the Guangzhou conference next year. If you have any questions or need further information, please feel free to contact us at Email: csisiac@gmail.com.

CFP | 欢迎投稿 2024 国际复杂系统与智能科学年会 (CSIS-IAC 2024) 中国,广州, 2024 年 9 月 20 日-22 日

2024 国际复杂系统与智能科学年会 (2024 International Annual Conference on Complex Systems and Intelligent Science, CSIS-IAC 2024) 将于 2024 年 9 月 20 日—22 日在中国广州举行。会议由广东工业大学承办,IEEE、中科院自动化所、南方科技大学协办,旨在为复杂系统与智能科学领域专家学者与工程技术人员搭建展示最新研究成果的平台,并进一步推动相关领域理论与应用的发展。欢迎专家、学者及学生以投稿、组织邀请组等形式参会,会议征稿截止日期为 2024 年 7 月 1 日,会议网址:http://www.csisiac.org/。CSIS-IAC 2024 会议论文集将由 IEEE 出版,并由 EI 检索。

我们期待着您的积极参与,并共同在广州年会上深入探讨复杂系统与智能科学的前沿问题。如有任何疑问或需要进一步信息,请随时联系我们 Email: csisiac@gmail.com。

Blank page.