

ISSSR 2022 Session Schedule
All the sessions are based on the time in Beijing, China (UTC+8)
Session Schedule

Thursday, October 27, 2022		
08:30 – 09:00	• Log in to Zoom	Zoom
09:00 – 09:15	• Opening Session	Zoom
09:15 – 10:15	• Keynote Speech I: Autonomic Computing in Large-Scale Computing System Dr. Yuanshun Dai Dean and Professor, School of Computing and Artificial Intelligence Southwest Jiaotong University	Zoom
10:15 – 11:15	• Keynote Speech II: Human-Machine Cooperation in Junior Science Education: Development, Opportunities, and Challenges Dr. Liang Luo Assistant Director and Associate Professor National & Local Joint Engineering Lab of Next Generation Internet Data Processing Technology, School of Computer Science and Engineering University of Electronic Science and Technology of China	Zoom
11:15 – 11:30	• Break	Zoom
11:30 – 12:15	• Session I: System Security and Safety	Zoom
12:15 – 13:00	• Session II: Algorithm and Modelling I	Zoom
13:00 – 13:45	• Session III: Algorithm and Modelling II	Zoom
13:45 – 14:45	• Session IV: Data Mining and Machine Learning	Zoom

Friday, October 28, 2022		
09:00 – 09:45	• Session V: Quality and Verification	Zoom
09:45 – 10:30	• Session VI: Information Storage and Retrieval	Zoom
10:30 – 11:00	• Session VII: System Reliability	Zoom
11:00 – 11:30	• Session VIII: Autonomous System and Cloud Computing	Zoom
11:30 – 12:30	• Session IX: Fast Abstract I	Zoom
12:30 – 13:30	• Session X: Fast Abstract II	Zoom

Link to join Zoom meeting on Day 1 (October 27, Thursday, 2022)
08:00 – 15:00, Beijing time

- <https://us02web.zoom.us/j/81362431887?pwd=T0dZd1Zqa1QybDI0QXExMzlCYldiZz09>
Meeting ID: 813 6243 1887
Passcode: ISSSR2022

Link to join Zoom meeting on Day 2 (October 28, Friday, 2022)
08:00 – 15:00, Beijing time

- <https://us02web.zoom.us/j/86179297883?pwd=Q0pDdVNENVgwbmoya2x6RUNxK2I1dz09>
Meeting ID: 861 7929 7883
Passcode: ISSSR2022

Presentation Schedule Day 1: October 27

Thursday, October 27, 2022		
08:30 – 09:00	<ul style="list-style-type: none"> • Log in to Zoom 	Zoom
09:00 – 09:15	<ul style="list-style-type: none"> • Opening Session • Steering Committee Chair Professor W. Eric Wong (University of Texas at Dallas, USA) • Program Chair Professor Hongjun Wang (Southwest Jiaotong University, China) 	Zoom
09:15 – 10:15	<ul style="list-style-type: none"> • Keynote Speech I <i>Autonomic Computing in Large-Scale Computing System</i> Dr. Yuanshun Dai Dean and Professor, School of Computing and Artificial Intelligence Southwest Jiaotong University 	Zoom
10:15 – 11:15	<ul style="list-style-type: none"> • Keynote Speech II <i>Human-Machine Cooperation in Junior Science Education: Development, Opportunities, and Challenges</i> Dr. Liang Luo Assistant Director and Associate Professor National & Local Joint Engineering Lab of Next Generation Internet Data Processing Technology, School of Computer Science and Engineering University of Electronic Science and Technology of China 	Zoom
11:15 – 11:30	<ul style="list-style-type: none"> • Coffee Break 	
11:30 – 12:15 (45 minutes/ 3 papers)	<ul style="list-style-type: none"> • Session I: System Security and Safety <ul style="list-style-type: none"> ◦ <i>Management System of Library based on Network Security</i> Yinggang Zhang, Li Liu, Xuefeng Yang, and Yihao Li ◦ <i>A Semi-Quantitative Method of Safety Resilience Assessment for Airport Operation System based on FRAM Model</i> Jiuxia Guo, Hongyi Li, and Changqi Yang ◦ <i>Development of a Coanda-drone with High Level of Safety Using Coanda Effect</i> Zejing Zhao, Bin Zhang, and Hun-ok Lim 	Zoom
12:15 – 13:00 (45 minutes/ 3 papers)	<ul style="list-style-type: none"> • Session II: Algorithm and Modelling I <ul style="list-style-type: none"> ◦ <i>Mountain Top Algorithm: Complex Historical-Geographic Network Data Analysis based on Structure, Dynamics, and Function</i> Ziyang Weng, Yidan Hu, Shuhao Wang, Wenhui Wang, and Yuhao Liu ◦ <i>Underwater Pier Algorithm: Nested Civilizations and Complex Economies in a Multilayered Trade Network in Historical Geographical Perspective</i> Ziyang Weng, Wenhui Wang, Ziyu Zhang, Biyi Dai, and Yuhao Liu ◦ <i>Real-Time Scheduling Algorithm for Mixed-Criticality Systems on Multi-Core Processor Platforms</i> Meng Li, Bitao Hu, Kun Xiao, and Ningkang Yang 	Zoom
13:00 – 13:45 (45 minutes/ 3 papers)	<ul style="list-style-type: none"> • Session III: Algorithm and Modelling II <ul style="list-style-type: none"> ◦ <i>A Multi-Objective Dynamically Optimized Fleet Algorithm for Misty Fields Exploration</i> Ziyang Weng and Shuhao Wang 	Zoom

	<ul style="list-style-type: none"> ○ <i>Air Defense Mission Planning of Ship Formation based on Event Network and Monte Carlo Simulation</i> Hongquan Shi, Xu Zhang, and Yingling Chen ○ <i>Analysis of Local Water System in Qingjiang River Basin based on Box Dimension Method and Its Fractal Dimension Characteristics</i> Jiangqi Yuan, Jing Xiao, Guangjin Ren, and Xiaopan Zhang 	
13:45 – 14:45 (60 minutes/ 4 papers)	<ul style="list-style-type: none"> ● Session IV: Data Mining and Machine Learning ○ <i>Multitype2pajek: An Improved Tool for Typical Relational Data Pre-Processing</i> Yang Deng, Hongyan Wan, Huan Jin, and Xinyi Lan ○ <i>Chinese Comments Classification and Hotspot Mining Algorithm based on Natural Language Processing</i> Xingfu Li, Zhongyuan Hua, Huan Jin, Xinyi Lan, and Bangchao Wang ○ <i>Few-shot Learning based on Multi-Attention and Prototype Correction</i> Jinhua Song, Zhidan Zhu, Bingshen Li, and Shuiping Ni ○ <i>Rubber Tyred Gantry Automatic Alignment System based on Computer Vision</i> Jianbing Yang, Na Zhu, Haojun Ji, and Bin He 	Zoom

Presentation Schedule Day 2: October 28

Friday, October 28, 2022		
08:30 – 09:00	<ul style="list-style-type: none"> • Log in to Zoom 	Zoom
09:00 – 09:45 (45 minutes/ 3 papers)	<ul style="list-style-type: none"> • Session V: Quality and Verification <ul style="list-style-type: none"> ◦ Data-Driven Quality Monitoring Model for Multi Variety and Small Batch Production Process in Cigarette Spinning Yue Wu, Xiaoshan Si, and Wenliang Li ◦ Formal Verification of the Interrupt Dispatch Program of an Embedded Operating System Yuxin Huang, Lirong Chen, Lei Luo, Kun Xiao, and Yun Li ◦ Improvement of Problem Management Process of Combat Software Engineering Rui Li and Yuxuan Yan 	Zoom
09:45 – 10:30 (45 minutes/ 3 papers)	<ul style="list-style-type: none"> • Session VI: Information Storage and Retrieval <ul style="list-style-type: none"> ◦ A Novel Approach for Constructing Intangible Cultural Heritage Knowledge Graphs Xianteng Gu, Yong Xiao, Zhongyuan Hua, Huan Jin, and Bangchao Wang ◦ Ontology-Based Domain Knowledge Construction for Location Based Social Network Zhenzhu Fu, Yuanbang Li, and Juanjuan Fu ◦ Event Knowledge Graph Extracted from Intelligence Text Qi Su, Xiaozhe Zhao, Dongpu Sun, Yitao Wang, and Hongquan Shi 	Zoom
10:30 – 11:00 (30 minutes/ 2 papers)	<ul style="list-style-type: none"> • Session VII: System Reliability <ul style="list-style-type: none"> ◦ Reliability Estimation of Medical Equipment based on Big Data Haopeng Zhou, Qilin Liu, Jin Huang, Zhenlin Li, and Changxi Wang ◦ Cloud Scheduling System Considering Reliability and Co-Resident Attack Yuxi Peng, Xiwei Qiu, and Peng Sun 	Zoom
11:00 – 11:30 (30 minutes/ 2 papers)	<ul style="list-style-type: none"> • Session VIII: Autonomous System and Cloud Computing <ul style="list-style-type: none"> ◦ A FANETs System for Autonomous Aircraft Flying Formation Lin Jinyong, Cai Wenlong, Fan Xiangrui, Zhou Chunmei, Dong Wenjie, Dai Jibo, Zhang Chunxia, and Zhang Shuo ◦ Prognostic and Health Management with Autonomic Computing for Cloud Systems Dongfeng Hu, Xiwei Qiu, and Xin Jin 	Zoom
11:30 – 12:30 (60 minutes/ 6 papers)	<ul style="list-style-type: none"> • Session IX: Fast Abstract I <ul style="list-style-type: none"> ◦ Does Time Effect the Networking Performance of Mobile Applications? Pan Liu, Shili Ai, Wenjie Zhang, Xiatong Chen, and Shuyu Gu ◦ Smart Contract Vulnerability Detection based on Abstract Syntax Tree Huiwen Yang, Jiaming Zhang, Xiguo Gu, and Zhanqi Cui ◦ System Architecture of Plug and Play Device based on the Hyperconverged Device Platform Wenqi Liu, Baishun Su, Zhikai Wang, and Shukun Qu ◦ A System of Remote Duty Expressway Toll Station based on Multi Queue Digital Twin and Edge Decision Peng Sun, Junhong Chen, Yanze Zhao, Bo Zhao, and Ruizhe Zhang ◦ Competing Failure Analysis in Phased-Mission System Subject to Random Failure Propagation Time Guilin Zhao ◦ A Framework and Environment Design of Human-Machine Cooperations in Junior Science Education Sa Meng, Liang Luo, Jun Liu, and Yuanshun Dai 	Zoom

<p>12:30 – 13:30 (60 minutes/ 6 papers)</p>	<ul style="list-style-type: none"> • Session X: Fast Abstract II <ul style="list-style-type: none"> ○ <i>A Survey on the Application of Cloud Models in the Reliability of Cloud Environments</i> Ruizhe Zhang, Peng Sun, Sikun Tian, and Wenqi Liu ○ <i>Graph Convolutional Network with Two Types of Weight Mechanisms for Aspect-Based Sentiment Analysis</i> Zhiming Xiao, Liansong Zong, Minchao Ban, and Fanjie Zhao ○ <i>Multimodal Aspect-Level Sentiment Analysis based on Deep Neural Networks</i> Minchao Ban, Liansong Zong, Jie Zhou, and Zhiming Xiao ○ <i>Design of Four Web Crawlers based on Python</i> Pan Liu, Yihao Li, Xuankui Zheng, Shili Ai, and Wenjie Zhan ○ <i>Voice Expression System of Visual Environment for a Guide Dog Robot</i> Reiya Ichikawa, Bin Zhang, and Hun-ok Lim ○ <i>Reliability Order-Based High Rate Decoders of Fast List Decoding for Polar Codes</i> Bing Zhu, Yanlong Zhao, Zhendong Yin, Zhutian Yang, and Zhilu Wu 	<p>Zoom</p>
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