ISSSR 2020 Session Schedule
All the sessions are based on the time in Beijing, China (UTC+8)

Link to join Zoom meeting on Day 1 (October 24, Saturday)
08:00 am – 4:00 pm

https://us02web.zoom.us/j/86993877951?pwd=RXV6Mi9md2haQ2ZZWTJPOWF2bUNvQT09
Meeting ID: 869 9387 7951
Passcode: ISSSR2020

Link to join Zoom meeting on Day 2 (October 25, Sunday)
8:00 am - 12:30 pm (noon)

https://us02web.zoom.us/j/83314328220?pwd=b2Fvdy9oNmI1K0dxNXZVMllIWEJ6Zz09
Meeting ID: 833 1432 8220
Passcode: ISSSR2020

Saturday, October 24, 2020		
08:30 – 09:00	Log in to Zoom	
09:00 – 09:20	Opening Ceremony • Steering Committee Chair – W. Eric Wong (University of Texas at Dallas, USA) • Welcome Remarks – Carole Graas President, IEEE Reliability Society – Wei Cheng Executive Deputy District Chief, Hechuan District, Chongqing, China • General Chairs – Yunshun Dai (University of Electronic Science and Technology of China) – Qiang Miao (Sichuan University) • Program Chair – Liang Luo (University of Electronic Science and Technology of China)	Zoom
09:20 – 10:00	• Keynote Speech I *Faults, Failures, and Vulnerabilities: What are the Trends and How Do We Make Progress?* Dr. D. Richard Kuhn IEEE Fellow Associate Editor of IEEE Transactions on Reliability Computer Security Division National Institute of Standards and Technology Gaithersburg, Maryland, USA	Zoom
10:00 – 10:10	Break	
10:10 – 10:50	• Keynote Speech II *Human-Machine Pair Programming: An Intelligent and Automated Approach for Software Productivity and Reliability* Professor Shaoying Liu IEEE Fellow, BCS Fellow Associate Editor of IEEE Transactions on Reliability School of Informatics and Data Science Hiroshima University, Japan	Zoom
10:50 – 11:00	Break	

11:00 – 12:15	• Session I: AI for System Analysis and Evaluation (5 papers; 15 minutes each) ○ *A Novel Application Approach for Anomaly Detection and Fault Determination Process based on Machine Learning* Yang Hong, Lisong Wang, Jiexiang Kang, Hui Wang and Zhongjie Gao ○ *Convolutional Neural Network Algorithm based on Improved Support Vector Machine* Suzhi ZHANG, Yuhong WU and Jun CHANG ○ *Automatic Test Case Generation form Formal Requirement Model for Avionics Software* WenXuan Wang, Jun Hu, JianChen Hu, JieXiang Kang, Hui Wang and ZhongJie Gao ○ *DADF: A Dynamic Adaptive Method for Generating Adversarial Examples* Zhiwen Jiang, Zhanqi Cui, Yiting Zheng, Jiao Deng and Xiulei Liu ○ *Generating Adversarial Examples for Sentiment Classifier of Chinese Sentences* Yiting Zheng, Zhanqi Cui, Yue Xu, Haikuo Li and Zhiwen Jiang	Zoom
12:15 – 13:00	Lunch	
13:00 – 14:15	• Session II: Algorithms, Models, and Techniques for System Construction (5 papers, 15 minutes each) ○ *A Controllable Hybrid Encryption Algorithm for Privacy Image* Yifeng Yin, Chaofei Hu, Kunpeng Liu and Yong Gan ○ *Dynamic Workflow Scheduling based on Autonomic Fault-Tolerant Scheme Selection in Uncertain Cloud Environment* Chenyang Zhao and Junling Wang ○ *IP Geolocation Method based on Neighbor IP Sequences* Yong Gan, Helin Zhang, Yuanbo Liu and Lei He ○ *Constructing Formal Specification Models From Domain Specific Natural Language Requirements* Jiancheng Hu, Jun Hu, Wenxuan Wang, Jiexiang Kang, Hui Wang and Zhongyi Zhao ○ *RTI-Grain: A Method for Detecting the Foreign Body of Granary Based on RSS* Chunhua Zhu, Jiale Tian, Zhen Shi and Jing Yang	Zoom
14:15 – 14:25	Break	
14:25 – 15:40	• Session III: System and Application (5 papers, 15 minutes each) ○ *Design of Laser Marking Control Software Based on C #* Linyu Zhu, Yongjie Yang, Haitao Ye, Wanting Ren, Xingjia Zhang and Minghua Sheng ○ *Network Entity Landmark Mining Technology* Yong Gan, Yuanbo Liu and Helin Zhang ○ *Empirical Evaluation of the Active Learning Strategies on Software Defects Prediction* Wenbo Mi, Yong Li and Shibo Wang	Zoom

	○ *Method of Safe and Fast Bluetooth Connection and Energy Saving for Educational Environment* Jingxian Zhou, Guangming Zheng, Chunbo Liu and Zhaojun Gu ○ *Application of NB-IoT Technology in City Open Water Monitoring* He Sui, Guangming Zheng, Jingxian Zhou, Zhaojun Gu and Ye Lu	

Sunday, October 25, 2020		
08:30 – 09:00	Log in to Zoom	
09:00 – 10:15	• Session IV: Performance, Trustworthiness, and Availability of System Design (5 papers, 15 minutes each) ○ *Design and Implementation of Intelligent Heart Rate Detection System based on STM32* Zengyu Cai, Zhongyuan Peng, Jianwei Zhang and Yuan Feng ○ *High Performance Multi-Mobile Node Routing Communication Protocol based on Reliable Active Node* Yu-ping LI, Ke LI and Guan-xiu LIU ○ *Research on MES System based on Production Management of Railway Vehicle Reducer* Fuqiang Li ○ *A Survey of the Inadequacies in Traffic Sign Recognition Systems for Autonomous Vehicles* Angelica Magnussen, Nathan Le, Linghuan Hu, and W. Eric Wong ○ *A Local Feature Descriptor System based on Improved Codebook Model* Qinggang Wu, Xueming Zhai, Fanghua Liu and Baohua Yue	Zoom
10:15 – 10:25	Coffee Break	
10:25 – 11:55	• Session V: Reliability, Security, and Quality (6 papers, 15 minutes each) ○ *A Survey on Automatic Bug Fixing* Heling Cao, Jianshu Shi, YangXia Meng, Lei Li, Tiaoli Liao and Chenyang Zhao ○ *Security of Edge Computing based on Trusted Computing* Bin Ma, Ziying Ye, Xufang Zhang, Jiajing Chen and Yang Zhou ○ *Image Quality Measurement by Probabilistic Principal Component Analysis* Hua-wen Chang, Kai Chen and Ming-hui Wang ○ *Predicate Testing Generation for Safety-critical Systems* Wan Zhou, Yong Wang* and Xiangyu Cheng ○ *A Novel Bayesian Algorithm for Reliability of Exponential Model under Zero Failure Environment* Haiping Ren and Fan Zhang ○ *Reliability on Deep Learning Models: A Comprehensive Observation* Yuhong Zhang and Chunjing Xiao	zoom
11:55	Adjourn	