

## QRS 2018 Session Schedule

Monday, July 16, 2018		
08:00 – 09:00	Registration	Foyer
09:00 – 12:30	<ul style="list-style-type: none"> <li>• T1: Data Science and Measurement in Software Reliability Engineering Pete Rotella (Cisco Systems, USA) Sunita Chulani (Cisco Systems, USA)</li> <li>• T4: An Overview of Network Reliability and its Evaluation Ning Huang (Beihang University, China) Xiaoyang Li (Beihang University, China)</li> </ul>	VA1  VA2
12:30 – 13:30	Lunch Break	Foyer
13:30 – 17:00	<ul style="list-style-type: none"> <li>• T3: Using Software Development Artifacts to Improve the Software Development Process Shannon Connors (JMP division of SAS, USA) Joseph Morgan (JMP division of SAS, USA)</li> </ul>	VA1

Tuesday, July 17, 2018		
08:00 – 09:00	Registration	Foyer
09:00 – 09:15	Opening Ceremony <ul style="list-style-type: none"> <li>• Steering Committee Chair: W. Eric Wong (University of Texas at Dallas, USA)</li> <li>• General Chairs: Ina Schieferdecker (Fraunhofer FOKUS, Germany) Yuanshun Dai (University of Electronic Science and Technology of China)</li> <li>• Program Chairs: Rui Maranhão Abreu (University of Lisbon, Portugal) Hongyu Zhang (University of Newcastle, Australia)</li> </ul>	GA
09:15 – 10:15	<ul style="list-style-type: none"> <li>• Keynote Speech I <i>Why You Should Care About Technical Debt (More Than You Think)</i> Paris Avgeriou University of Groningen, The Netherlands</li> </ul>	GA
10:15 – 10:35	Coffee Break	Foyer
10:35 – 12:15	<ul style="list-style-type: none"> <li>• Session I-A: Fault Diagnosis I</li> <li>• Session I-B: Formal Methods</li> <li>• Session I-C: Quality Prediction</li> <li>• Session I-D: Security and Privacy I</li> <li>• Session I-E: Invited Talks</li> <li>• Session I-F: International Software Testing Contest</li> </ul>	VA1 VA2 VA3 02.1 02.2 01.1
12:15 – 14:00	Lunch Break Poster Session I	Foyer
14:00 – 15:40	<ul style="list-style-type: none"> <li>• Session II-A: Fault Diagnosis II</li> <li>• Session II-B: Software Maintenance</li> <li>• Session II-C: Quality Improvement</li> <li>• Session II-D: Industry Track</li> <li>• Session II-E: Automated Intelligent Software Testing I (Workshop)</li> <li>• Session II-F: International Software Testing Contest</li> </ul>	VA1 VA2 VA3 02.1 02.2 01.1
15:40 – 16:00	Coffee Break	Foyer
16:00 – 17:40	<ul style="list-style-type: none"> <li>• Session III-A: Mutation Testing</li> <li>• Session III-B: Software Analysis</li> <li>• Session III-C: Cyber Resilience Economics I (Workshop)</li> <li>• Session III-D: Security and Privacy II</li> <li>• Session III-E: Automated Intelligent Software Testing II (Workshop)</li> <li>• Session III-F: International Software Testing Contest</li> </ul>	VA1 VA2 VA3 02.1 02.2 01.1
18:00 – 19:30	Conference Reception (IST Gardens)	

Wednesday, July 18, 2018		
08:00 – 09:00	Registration	Foyer
09:00 – 10:00	<ul style="list-style-type: none"> <li>• Keynote Speech II <i>Belief Reliability for Uncertain Random Systems</i> Rui Kang Beihang University, China</li> </ul>	GA
10:00 – 10:20	Coffee Break	Foyer
10:20 – 12:00	<ul style="list-style-type: none"> <li>• Session IV-A: Performance and Safety</li> <li>• Session IV-B: Software Engineering and Knowledge Management (Workshop)</li> <li>• Session IV-C: Cyber Resilience Economics II (Workshop)</li> <li>• Session IV-D: Safety and Security in Cyber-Physical Systems I (Workshop)</li> <li>• Session IV-E: Automated Intelligent Software Testing III (Workshop)</li> <li>• Session IV-F: Model-based Verification and Validation I (Workshop)</li> </ul>	VA1 VA2 VA3 02.1 02.2 01.1
12:00 – 14:00	Lunch Break Poster Session II	Foyer
14:00 – 15:40	<ul style="list-style-type: none"> <li>• Session V-A: Software Testing I</li> <li>• Session V-B: Conflicts and Synergies among Reliability, Security, and other Qualities I (Workshop)</li> <li>• Session V-C: Quality Oriented Engineering I (Workshop)</li> <li>• Session V-D: Safety and Security in Cyber-Physical Systems II (Workshop)</li> <li>• Session V-E: Automated Intelligent Software Testing IV (Workshop)</li> <li>• Session V-F: Blockchain, Smart Contracts, and Digital Society I (Workshop)</li> </ul>	VA1 VA2 VA3 02.1 02.2 01.1
15:40 – 16:00	Coffee Break	Foyer
16:00 – 17:40	<ul style="list-style-type: none"> <li>• Session VI-A: Software Testing II</li> <li>• Session VI-B: Conflicts and Synergies among Reliability, Security, and other Qualities II (Workshop)</li> <li>• Session VI-C: Quality Oriented Engineering II (Workshop)</li> <li>• Session VI-D: Verification and Validation of Adaptive Software Systems (Workshop) (extended to 6:00 pm)</li> <li>• Session VI-E: Blockchain, Smart Contracts, and Digital Society II (Workshop)</li> </ul>	VA1 VA2 VA3 02.1 02.2
19:30 – 22:00	Conference Banquet, Music Performance, and Award Ceremony Museu da Cidade Campo Grande 245, 1700-091 Lisboa (near de Campo Grande metro station)	

Thursday, July 19, 2018		
08:00 – 09:00	Registration	Foyer
09:00 – 10:00	<ul style="list-style-type: none"> <li>• Keynote Speech III <i>Perspectives on Dependability and Security Benchmarking: TO BENCHMARK OR NOT TO BENCHMARK</i> Marco Vieira University of Coimbra, Portugal</li> </ul>	GA
10:00 – 10:20	Coffee Break	Foyer
10:20 – 12:00	<ul style="list-style-type: none"> <li>• Session VII-A: Program Analysis and Repair</li> <li>• Session VII-B: Human and Social Aspects of Software Quality I (Workshop)</li> <li>• Session VII-C: Quality Oriented Engineering III (Workshop)</li> <li>• Session VII-D: Model-based Verification and Validation II (Workshop)</li> <li>• Session VII-E: Fast Abstract</li> </ul>	VA1 VA2 VA3 02.1 02.2
12:00 – 14:00	Lunch Break Poster Session III	Foyer
14:00 – 15:40	<ul style="list-style-type: none"> <li>• Session VIII-A: Security, Reliability, and Resilience in Wireless Sensor Networks and Smart Grid I (Workshop)</li> <li>• Session VIII-B: Human and Social Aspects of Software Quality II (Workshop)</li> <li>• Session VIII-C: Reliability and Resilience of Complex Systems I (Workshop)</li> <li>• Session VIII-D: Trustworthy Computing (Workshop)</li> <li>• Session VIII-E: System Reliability in Cloud Computing and Big Data I (Workshop)</li> </ul>	VA1 VA2 VA3 02.1 02.2
15:40 – 16:00	Coffee Break	Foyer
16:00 – 17:40	<ul style="list-style-type: none"> <li>• Session IX-A: Security, Reliability, and Resilience in Wireless Sensor Networks and Smart Grid II (Workshop)</li> <li>• Session IX-B: Reliability and Resilience of Complex Systems II (Workshop)</li> <li>• Session IX-C: Software Engineering and Big Data (Workshop)</li> <li>• Session IX-D: System Reliability in Cloud Computing and Big Data II (Workshop)</li> </ul>	VA1 VA2 VA3 02.1

## QRS 2018 Presentation Schedule

Tuesday, July 17, 2018	
08:00 – 09:00	Registration (Foyer)
09:00 – 09:15	Opening Ceremony Room: Auditorium <ul style="list-style-type: none"> <li>• Steering Committee Chair: W. Eric Wong (University of Texas at Dallas, USA)</li> <li>• General Chairs: Ina Schieferdecker (Fraunhofer FOKUS, Germany) Yuanshun Dai (University of Electronic Science and Technology of China)</li> <li>• Program Chairs: Rui Maranhão Abreu (University of Lisbon, Portugal) Hongyu Zhang (University of Newcastle, Australia)</li> </ul>
09:15 – 10:15	<ul style="list-style-type: none"> <li>• Keynote Speech I Chair: Eric Wong Room: Auditorium</li> </ul> <p style="margin-left: 20px;"><i>Why You Should Care About Technical Debt (More Than You Think)</i> Paris Avgeriou University of Groningen, The Netherlands</p>
10:15 – 10:35	Coffee Break (Foyer)
10:35 – 12:15	<ul style="list-style-type: none"> <li>• Session I-A: Fault Diagnosis I Chair: Katerina Goseva-Popstojanova Room: VA1</li> <li>○ <i>MisconfDoctor: Diagnosing Misconfiguration via Log-based Configuration Testing (R)</i> Teng Wang, Xiaodong Liu, Shanshan Li, Xiangke Liao, Wang Li, and Qing Liao</li> <li>○ <i>BehaviorKI: Behavior Pattern Based Runtime Integrity Checking for Operating System Kernel (R)</i> Xinyue Feng, Qiusong Yang, Lin Shi, and Qing Wang</li> <li>○ <i>MASKED: A MapReduce Solution for the Kappa-pruned Ensemble-based Anomaly Detection System (R)</i> Md Shariful Islam, Korosh Koochekian Sabor, Abdelaziz Trabelsi, Wahab Hamou-Lhadj, and Luay Alawneh</li> <li>○ <i>Probabilistic Sampling-based Testing for Accelerated Reliability Assessment (R)</i> Roberto Pietrantuono and Stefano Russo</li> </ul>
10:35 – 12:15	<ul style="list-style-type: none"> <li>• Session I-B: Formal Methods Chair: Shaoying Liu Room: VA2</li> <li>○ <i>An Automatic Parameterized Verification of FLASH Cache Coherence Protocol (R)</i> Yongjian Li, Jialun Cao, and Kaiqiang Duan</li> <li>○ <i>TBFV-SE: Testing-Based Formal Verification with Symbolic Execution (S)</i> Rong Wang and Shaoying Liu</li> <li>○ <i>Verifying Stochastic Behaviors of Decentralized Self-Adaptive Systems : A Formal Modeling and Simulation Based Approach (S)</i> Nianyu Li, Di Bai, Yiming Peng, Zhuoqun Yang, and Wenpin Jiao</li> </ul>

	<ul style="list-style-type: none"> <li>○ <i>Analysis of Experiences with the Engineering of a Medical Device using State-based Formal Methods (S)</i> Atif Mashkour and Alexander Egyed</li> </ul>
10:35 – 12:15	<ul style="list-style-type: none"> <li>● Session I-C: Quality Prediction Chair: David Lo Room: VA3</li> <li>○ <i>Machine Learning to Evaluate Evolvability Defects: Code Metrics Thresholds for a Given Context (R)</i> Naohiko Tsuda, Hironori Washizaki, Yoshiaki Fukazawa, Yuichiro Yasuda, and Shunsuke Sugimura</li> <li>○ <i>Is Predicting Software Security Bugs using Deep Learning Better than the Traditional Machine Learning Algorithms? (S)</i> Caesar Jude Clemente, Fehmi Jaafar, and Yasir Malik</li> <li>○ <i>A Method for Predicting Two-variable Atomicity Violations (S)</i> Zhuo Sun, Reng Zeng, and Xudong He</li> <li>○ <i>Cross-Entropy: A New Metric for Software Defect Prediction (R)</i> Xian Zhang, Kerong Ben, and Jie Zeng</li> </ul>
10:35 – 12:15	<ul style="list-style-type: none"> <li>● Session I-D: Security and Privacy I Chair: Bruno Lima Room: 02.1</li> <li>○ <i>Introspection for ARM TrustZone with the ITZ Library (R)</i> Miguel Guerra, Benjamin Taubmann, Hans P. Reiser, Sileshi Yalew, and Miguel Correia</li> <li>○ <i>A Security Model for Access Control in Graph-Oriented Databases (S)</i> Claudia Morgado, Gisele Busichia Baioco, Tania Basso, and Regina Moraes</li> <li>○ <i>How Usable are Rust Cryptography APIs? (R)</i> Kai Mindermann, Philipp Keck, and Stefan Wagner</li> <li>○ <i>Hypervisor-based Sensitive Data Leakage Detector (S)</i> Shu-Hao Chang, Sanoop Mallissery, Chih-Hao Hsieh, and Yu-Sung Wu</li> </ul>
10:35 – 12:15	<ul style="list-style-type: none"> <li>● Session I-E: Invited Talks Chair: Franz Wotawa Room: 02.2</li> <li>○ <i>Breaking the Trust: Why Companies are Failing their Customers</i> Mike Pecht</li> <li>○ <i>Lessons Learned from Developing Permissioned Blockchains</i> Wei-Tek Tsai</li> </ul>
10:35 – 12:15	<ul style="list-style-type: none"> <li>● Session I-F: International Software Testing Contest Room: 01.1</li> </ul>
12:15 – 14:00	Lunch Break (Foyer) Poster Session I
14:00 – 15:40	<ul style="list-style-type: none"> <li>● Session II-A: Fault Diagnosis II Chair: Dianxiang Xu Room: VA1</li> <li>○ <i>Detecting Errors in A Humanoid Robot (S)</i> Jun Inoue, Fumio Kanehiro, Mitsuharu Morisawa, and Akira Mori</li> <li>○ <i>SynEva: Evaluating ML Programs by Mirror Program Synthesis (R)</i> Yi Qin, Huiyan Wang, Chang Xu, Xiaoxing Ma, and Jian Lu</li> </ul>

	<ul style="list-style-type: none"> <li>○ <i>Using Crash Frequency Analysis to Identify Error-prone Software Technologies in Multi-System Monitoring (S)</i> Andreas Schörghöfer, Mario Kahlhofer, Hanspeter Mössenböck, and Paul Grünbacher</li> <li>○ <i>Exploratory Data Analysis of Fault Injection Campaigns (R)</i> Frederico Cerveira, Imre Kocsis, Raul Barbosa, Henrique Madeira, and András Pataricza</li> </ul>
14:00 – 15:40	<ul style="list-style-type: none"> <li>● Session II-B: Software Maintenance Chair: Benedikt Eberhardinger Room: VA2</li> <li>○ <i>Differencing Graphical User Interfaces (R)</i> Mark Grechanik, B.M. Mainul Hossain, Chi Wu Mao, Ankush Baisal, and David Rosenblum</li> <li>○ <i>Change-Based Test Script Maintenance for Android Apps (R)</i> Nana Chang, Linzhang Wang, Yu Pei, and Xuandong Li</li> <li>○ <i>How Do Defects Hurt Qualities? An Empirical Study on Characterizing A Software Maintainability Ontology in Open Source Software (R)</i> Celia Chen, Lin Shi, Michael Shoga, Barry Boehm, and Qing Wang</li> <li>○ <i>An Empirical Study of the Impact of Code Smell on File Changes (R)</i> Can Zhu, Xiaofang Zhang, Yang Feng, and Lin Chen</li> </ul>
14:00 – 15:40	<ul style="list-style-type: none"> <li>● Session II-C: Quality Improvement Chair: Tugkan Tuglular Room:VA3</li> <li>○ <i>On The Suitability of A Portfolio-Based Design Improvement Approach (S)</i> Johannes Bräuer, Reinhold Plösch, Christian Körner, and Matthias Saft</li> <li>○ <i>Automatic Detection of Feature Interactions Using Symbolic Analysis and Evolutionary Computation (R)</i> Byron DeVries and Betty H.C. Cheng</li> <li>○ <i>Implementing Traceability Repositories as Graph Databases for Software Quality Improvement (S)</i> Randa Elamin and Rasha Osman</li> <li>○ <i>Provably Secure Cryptographic ABAC System to Enhance Reliability and Privacy using Real-time Token and Dynamic Policy (R)</i> Yan Zhu, Ruyun Yu, Yao Qin, Di Ma, and William Cheng-Chung Chu</li> </ul>
14:00 – 15:40	<ul style="list-style-type: none"> <li>● Session II-D: Industry Track Chair: Sunita Chulami Room: 02.1</li> <li>○ <i>DFT+Emulation - A faster way to close verification</i> Jitendra Aggarwal, Tran Nguyen, and Piyush Kumar Gupta</li> <li>○ <i>Automated detection and processing of field crash reports</i> Shannon Connors</li> <li>○ <i>Cerberus: an Automated Tool for Continuous Testing</i> Ana Filipa Nogueira, Carlos Machado, Antoine Craske, Benoit Dumont José C. B. Ribeiro, and Mário Zenha-Rela</li> <li>○ <i>Towards Safe, Secure, and Resilient Systems (Invited Talk)</i> Jeffrey Piccioletto</li> </ul>

	<ul style="list-style-type: none"> <li>○ <i>Validation of Asymmetric Cyber Resiliency (Invited Talk)</i> Nicholas J. Multari</li> </ul>
14:00 – 15:40	<ul style="list-style-type: none"> <li>● Session II-E: Automated Intelligent Software Testing I (Workshop) Chair: Shaomin Zhu Room: 02.2 <ul style="list-style-type: none"> <li>○ <i>An AI Software Test Method Based on Scene Deductive Approach</i> Xinghan Zhao, Xiangfei Gao, and Long Zhang</li> <li>○ <i>FeT: Hybrid Cloud-based Mobile Bank Application Testing</i> Chaonian Guo, Shaomin Zhu, Tongsen Wang, and Hao Wang</li> <li>○ <i>Defect Prediction Based on The Characteristics of Multilayer Structure of Software Network</i> Yiwen Yang, Jun Ai, and Fei Wang</li> <li>○ <i>A New Software Reliability Evaluation Model Based on The Probability of The Failure Mode</i> Yunqiang Yan, Yanhong Peng, Chang Liu, and Haifeng Li</li> <li>○ <i>Design and Application of A Sikuli Based Capture-Replay Tool</i> Jin-lei Sun, Song Huang, and Zhanwei Hui</li> </ul> </li> </ul>
14:00 – 15:40	<ul style="list-style-type: none"> <li>● Session II-F: International Software Testing Contest Room: 01.1</li> </ul>
15:40 – 16:00	Coffee Break (Foyer)
16:00 – 17:40	<ul style="list-style-type: none"> <li>● Session III-A: Mutation Testing Chair: Junhua Ding Room: VA1 <ul style="list-style-type: none"> <li>○ <i>Mutation Testing for Physical Computing (R)</i> Qianqian Zhu and Andy Zaidman</li> <li>○ <i>Vulnerability Assessment of Web Services with Model-based Mutation Testing (R)</i> Faezeh Siavashi, Dragos Truscan, and Juri Vain</li> <li>○ <i>Manifesting Bugs in Machine Learning Code: An Explorative Study with Mutation Testing (R)</i> Dawei Cheng, Chun Cao, Chang Xu, and Xiaoxing Ma</li> <li>○ <i>Model-based Mutation Operators for Timed Systems: A Taxonomy and Research Agenda (S)</i> James Ortiz Vega, Gilles Perrouin, Moussa Amrani, and Pierre-Yves Schobbens</li> </ul> </li> </ul>
16:00 – 17:40	<ul style="list-style-type: none"> <li>● Session III-B: Software Analysis Chair: Linzhang Wang Room: VA2 <ul style="list-style-type: none"> <li>○ <i>Does Socio-Technical Congruence Have An Effect on Continuous Integration Build Failures? An Empirical Study on 10 GitHub Projects (R)</i> Weiqiang Zhang, Zhenyu Chen, and Bin Luo</li> <li>○ <i>Identification of Security related Bug Reports via Text Mining Using Supervised and Unsupervised Classification (R)</i> Katerina Goseva-Popstojanova, and Jacob Tyo</li> <li>○ <i>The State of Practice on Virtual Reality (VR) Applications: An Exploratory Study on Github and Stack Overflow (R)</i> Naoures Ghrairi, Amine Barrak, Fabio Petrillo, Segla Kpodjedo, and Foutse Khomh</li> </ul> </li> </ul>

16:00 – 17:40	<ul style="list-style-type: none"> <li>• Session III-C: Cyber Resilience Economics I (Workshop) Chair: Jeff Picciotto Room: VA3</li> <li>○ <i>Mission Assurance: Beyond Secure Processing</i> Michael Vai, David Whelihan, Jacob Leemaster, Haley Whitman, Willahelm Wan, Yunsi Fei, Roger Khazan, Ilia Lebedev, Kyle Hogan, and Srimi Devadas</li> <li>○ <i>Open Source Value Chains for Addressing Security Issues Efficiently</i> Arnd Weber, Steffen Reith, Dirk Kuhlmann, Michael Kasper, Jean-Pierre Seifert, and Christoph Krauß</li> <li>○ <i>Implementing Cyber Resilient Designs Through Graph Analytics Assisted Model Based Systems Engineering</i> Anurag Dwivedi</li> </ul>
16:00 – 17:40	<ul style="list-style-type: none"> <li>• Session III-D: Security and Privacy II Chair: Ning Huang Room: 02.1</li> <li>○ <i>Spiral<sup>SRA</sup>: A Threat-Specific Security Risk Assessment Framework for the Cloud (S)</i> Armstrong Nhlabatsi, Jin Hong, Kim Dong Seong, Rachael Fernandez, Noora Fetais, and Khaled M. Khan</li> <li>○ <i>Hardening Application Security using Intel SGX (S)</i> Max Plauth, Fredrik Teschke, Daniel Richter, and Andreas Polze</li> </ul>
16:00 – 17:40	<ul style="list-style-type: none"> <li>• Session III-E: Automated Intelligent Software Testing II (Workshop) Chair: Xiaofang Zhang Room: 02.2</li> <li>○ <i>Full Digital Simulation Testing of Networked Embedded Software</i> Feng Gao, Fei Deng, Yunqiang Yan, and Cunlei Li</li> <li>○ <i>Automated Warship Software Testing System Based On LoadRunner Automation API</i> Xinyu Han, Nan Zhang, Wei He, Kai Zhang, and Longli Tang</li> <li>○ <i>MURE: Making Use of MUtations to REfine Spectrum-based Fault Localization</i> Zijie Li, Lanfei Yan, Zhenyu Zhang, and Bo Jiang</li> <li>○ <i>Research on The Reuse of Test Case for Warship Equipment Software</i> Nan Zhang, Haiyan Chai, and Xinyu Han</li> <li>○ <i>Metamorphic Testing of Image Region Growth Programs in Image Processing Applications</i> Chao Jiang, Song Huang, and Zhanwei Hui</li> </ul>
16:00 – 17:40	<ul style="list-style-type: none"> <li>• Session III-F: International Software Testing Contest Room: 01.1</li> </ul>
18:00 – 19:30	<ul style="list-style-type: none"> <li>• Conference Reception Location: IST Gardens</li> </ul>



Wednesday, July 18, 2018	
08:00 – 09:00	Registration (Foyer)
09:00 – 10:00	<ul style="list-style-type: none"> <li>• Keynote Speech II Chair: Hongyu Zhang Room: Auditorium</li>   <li><i>Belief Reliability for Uncertain Random Systems</i> Rui Kang Beihang University, China</li> </ul>
10:00 – 10:20	Coffee Break (Foyer)
10:20 – 12:00	<ul style="list-style-type: none"> <li>• Session IV-A: Performance and Safety Chair: Shannon Connors Room: VA1</li>   <li>○ <i>Performance Analysis Using Automatic Grouping (S)</i> Isnaldo Francisco De Melo Junior, Abderrahmane Benbachir, and Michel Dagenais</li>   <li>○ <i>QuantCloud: A Software with Automated Parallel Python for Quantitative Finance Applications (S)</i> Peng Zhang, Xiang Shi, and Yuxiang Gao</li>   <li>○ <i>Safety-Critical System Modeling in Model-Based Testing with Hazard and Operability Analysis (S)</i> Chang Rao, Jin Guo, Nan Li, Yu Lei, Yadong Zhang, and Yao Li</li> </ul>
10:20 – 12:00	<ul style="list-style-type: none"> <li>• Session IV-B: Software Engineering and Knowledge Management (Workshop) Chair: Jiangning Wu Room: VA2</li>   <li>○ <i>Tracing Error Propagation in C/C++ Applications</i> Shiyi Kong, Minyan Lu, and Luyi Li</li>   <li>○ <i>Energy Optimization and Fault Tolerance to Embedded System based on Adaptive Heterogeneous Multi-core Hardware Architecture</i> Xing Liu, Panwen Liu, Xin Yan, Zhangyu Cheng, Ruoshi Xia, Haiying Zhou, Kun Mean Hou, and Christophe De Vault</li>   <li>○ <i>Optimum Post-disruption Restoration Plan of Interdependent Critical Infrastructures</i> Lili Rong, Kesheng Yan, and Guangqian Zhang</li>   <li>○ <i>Research on the Impact of Consumer Review Sentiments from Different Websites on Product Sales</i> Yanzhong Dang, Lingyu Du, and Jiangning Wu</li>   <li>○ <i>A Study of Software Testing Practices in Sri Lankan Software Companies</i> Shanmuganathan Vasanthapriyan</li> </ul>
10:20 – 12:00	<ul style="list-style-type: none"> <li>• Session IV-C: Cyber Resilience Economics II (Workshop) Chair: Nick Multari Room: VA3</li>   <li>○ <i>The Economics of Blockchain Resilience: Energy, Incentives, and Rationality (Invited Talk)</i> Paulo Verissimo</li>   <li>○ <i>Cyber Resiliency: Why, What and How? (Invited Talk)</i> Rosalie McQuaid</li>   <li>○ <i>Factors driving plans, policies, and application of cybersecurity and resilience in government and industry (Panel)</i></li> </ul>

10:20 – 12:00	<ul style="list-style-type: none"> <li>• Session IV-D: Safety and Security in Cyber-Physical Systems I (Workshop) Chair: Wei Dong Room: 02.1</li> <li>○ <i>Lightweight Key Agreement for Wireless Sensor Networks</i> Jaruwat Mesit, Matthias Brust, and Pascal Bouvry</li> <li>○ <i>Information Security Considerations for Wireless Infusion Pumps</i> Pooja Rajendra Prasad, Sergey Butakov, and Fehmi Jaafar</li> <li>○ <i>Simulation Testing of Fault-Tolerant CPS based on Hierarchical Adaptive Policies</i> Siyu Ma and Yunqiang Yan</li> <li>○ <i>Safety-based Software Reconfiguration Method for Integrated Modular Avionics Systems in AADL Model</i> Xiaomin Wei, Yunwei Dong, and Mingrui Xiao</li> </ul>
10:20 – 12:00	<ul style="list-style-type: none"> <li>• Session IV-E: Automated Intelligent Software Testing III (Workshop) Chair: William Chu Room: 02.2</li> <li>○ <i>Scenario-Based Software Reliability Testing and Evaluation of Complex Information Systems</i> Lijin Wu, Wei He, Bojiang Liu, Xinyu Han, and Longli Tang</li> <li>○ <i>A New Method of Evolutionary Testing For Path Coverage.</i> Yijin Li, Yuheng Zhang, and Qingjie Wei</li> <li>○ <i>Decomposing Constraints for Better Coverage in Test Data Generation</i> Ju Qian, Kun Liu, Hao Chen, Zhiyi Zhang, and Zhe Chen</li> <li>○ <i>Combinatorial Test Case Prioritization Based on Incremental Combinatorial Coverage Strength</i> Ziyuan Wang and Feiyan She</li> <li>○ <i>Automatic Test Transition Paths Generation Approach from EFSM Using State Tree</i> Yuan Chen, Junjie Wang, Yuanzhang Song, Anbang Wang, Luo Liu, and Qinghua Ha</li> </ul>
10:20 – 12:00	<ul style="list-style-type: none"> <li>• Session IV-F: Model-based Verification and Validation I (Workshop) Chair: Hasan Ural Room: 01.1</li> <li>○ <i>Model-Based Integration Strategies for Cyber-Physical Systems (Invited Talk)</i> Mario Winter</li> <li>○ <i>Equivalence Checking for Hybrid Control Systems modelled in Simulink</i> Sebastian Schlesinger, Paula Herber, Thomas Göthel, and Sabine Glesner</li> <li>○ <i>Event Sequence Graph-based Feature-oriented Testing: A Preliminary Study</i> Tugkan Tuglular</li> </ul>
12:00 – 14:00	Lunch Break (Foyer) Poster Session II
14:00 – 15:40	<ul style="list-style-type: none"> <li>• Session V-A: Software Testing I Chair: Manuel Nuñez Room: VA1</li> <li>○ <i>Model-Based Testing of Obligatory ABAC Systems (R)</i> Samer Khamaiseh, Patrick Chapman, and Dianxiang Xu</li> </ul>

	<ul style="list-style-type: none"> <li>○ <i>Combinatorial Modeling and Test Case Generation for Industrial Control Software using ACTS (R)</i> Sara Ericsson and Eduard Enoiu</li> <li>○ <i>Avoiding the Familiar to Speed Up Test Case Reduction (R)</i> Golnaz Gharachorlu and Nick Sumner</li> <li>○ <i>Towards a Testing Framework with Visual Feedback for Actor-based Systems (S)</i> Hasan Sozer, Ozan Gurler, and Orhan Yilmaz</li> </ul>
14:00 – 15:40	<ul style="list-style-type: none"> <li>● Session V-B: Conflicts and Synergies among Reliability, Security, and other Qualities I (Workshop) Chair: Barry Boehm Room: VA2</li> <li>○ <i>Striking A Balance amongst Quality Attributes (Invited Talk)</i> Sunita Chulani</li> <li>○ <i>Towards a Coherent Terminology and Taxonomy for Evaluating Safety via Testing</i> Nils Müllner and Wasif Afzal</li> </ul>
14:00 – 15:40	<ul style="list-style-type: none"> <li>● Session V-C: Quality Oriented Engineering I (Workshop) Chair: Zhiyi Zhang Room: VA3</li> <li>○ <i>Information System Reliability Quantitative Assessment Method and Engineering Application</i> Jingwei Shang, Ping Chen, Qiang Wang, and Liewen Lu</li> <li>○ <i>GPU and Multiprocessing Parallel Implementations for The Elimination of Finite State Machine Mutants</i> Emad Badawi, Khaled El-Fakih, and Gerassimos Barlas</li> <li>○ <i>On The Effectiveness of Automatically Inferred Invariants in Detecting Regression Faults in Spreadsheets</i> Sohon Roy, Arie van Deursen, and Felienne Hermans</li> <li>○ <i>Functional Dependency Detection for Integration Test Cases</i> Sahar Tahvili, Marcus Ahlberg, Eric Fornander, Wasif Afzal, Mehrdad Saadatmand, Markus Bohlin, and Mahdi Sarabi</li> </ul>
14:00 – 15:40	<ul style="list-style-type: none"> <li>● Session V-D: Safety and Security in Cyber-Physical Systems II (Workshop) Chair: Yin Lu Room: 02.1</li> <li>○ <i>Collaborative Simulation Testing with State Behavior Tree</i> Yunqiang Yan and Siyou Ma</li> <li>○ <i>Automatic Exploit Generation for Buffer Overflow Vulnerabilities</i> Weixi Jia, Luhang Xu, Wei Dong, and Yongjun Li</li> <li>○ <i>Modeling and Analyzing Cyber Physical Systems Using High Level Petri Nets</i> Xudong He</li> <li>○ <i>Guide Fuzzing with Multi-Factor Potential Analysis</i> Luhang Xu, Wei Dong, Liangze Yin, and Quixi Zhong</li> </ul>
14:00 – 15:40	<ul style="list-style-type: none"> <li>● Session V-E: Automated Intelligent Software Testing IV (Workshop) Chair: Jinbo Wang Room: 02.2</li> </ul>

	<ul style="list-style-type: none"> <li>○ <i>Research on Software Failure Analysis and Quality Management Model</i> Chen Yusong, Chen Jianguang, and Gao Yang</li> <li>○ <i>Towards a Bayesian Network Model for Predicting Flaky Automated Tests</i> Tariq King, Dionny Santiago, Justin Phillips, and Peter Clarke</li> <li>○ <i>MuNN: Mutation Analysis of Neural Networks</i> Weijun Shen, Jun Wan, and Zhenyu Chen</li> <li>○ <i>Analysis of covering arrays using prior information</i> Ryan Lekivetz and Joseph Morgan</li> <li>○ <i>Test Scenario Generation Using Model Checking</i> Zhixiong Yin, Min Zhang, Guoqiang Li, and Ling Fang</li> </ul>
14:00 – 15:40	<ul style="list-style-type: none"> <li>● Session V-F: Blockchain, Smart Contracts, and Digital Society I (Workshop) Chair: Gang Yang Room: 01.1</li> <li>○ <i>Blockchain and Scalability</i> Anamika Chauhan, Om Prakash Malviya, Madhav Verma, and Tejinder Singh Mor</li> <li>○ <i>On the Similarities Between Blockchains and Merkle-Damgård Hash Functions</i> Kimmo Halunen, Visa Vallivaara, and Anni Karinsalo</li> <li>○ <i>Smart contracts for a Mobility-as-a-Service Ecosystem</i> Anni Karinsalo and Kimmo Halunen</li> </ul>
15:40 – 16:00	Coffee Break (Foyer)
16:00 – 17:40	<ul style="list-style-type: none"> <li>● Session VI-A: Software Testing II Chair: Jun Ai Room: VA1</li> <li>○ <i>Using Mutant Stubbornness to Create Minimal and Prioritized Test Sets (R)</i> Loreto Gonzalez-Hernandez, Birgitta Linström, Jeff Offutt, Sten F. Andler, Pasqualina Potena, and Markus Bohlin</li> <li>○ <i>Target Selection for Test-Based Resource Adaptation (R)</i> Arpit Christi and Alex Groce</li> <li>○ <i>From Natural Language Requirements to Passive Test Cases using Guarded Assertions (R)</i> Daniel Flemström, Eduard Enoiu, Wasif Afzal, Daniel Sundmark, Thomas Gustafsson, and Avenir Kobetski</li> </ul>
16:00 – 17:40	<ul style="list-style-type: none"> <li>● Session VI-B: Conflicts and Synergies among Reliability, Security, and other Qualities II (Workshop) Chair: Xavier Franch Room: VA2</li> <li>○ <i>An Analysis of the Inclusion of Environmental Cost Factors in Software Cost Estimation Datasets</i> Emtinan Mustafa and Rasha Osman</li> <li>○ <i>Open position statements by attendees</i></li> <li>○ <i>Discussion &amp; Wrap-up</i></li> </ul>
16:00 – 17:40	<ul style="list-style-type: none"> <li>● Session VI-C: Quality Oriented Engineering II (Workshop) Chair: Peng Sun Room: VA3</li> </ul>

	<ul style="list-style-type: none"> <li>○ <i>A Test Path Generation Method Based on SSM Models</i> Hao Lan, Yin Tong, Jin Guo, Yadong Zhang, Yao Li, and Chang Rao</li> <li>○ <i>A FPGA based SAT Solver with High Random and Concurrent Strategies</i> Anping He, Lvying Yu, Haitao Zhang, Jinzhao Wu, and Lian Li</li> <li>○ <i>A Study of The Extraction of Bug Judgment and Correction Times from Open Source Software Bug Logs</i> Seher Razzaq, Yan-Fu Li, and Chu-Ti Lin</li> <li>○ <i>Software Component Reliability Evaluation Method Based on Characteristic Parameters</i> Ren-ya He, Long-li Tang, Xin-yu Han, Wei He, and Ze-hui Zhao</li> </ul>
16:00 – 18:00	<ul style="list-style-type: none"> <li>● Session VI-D: Verification and Validation of Adaptive Software Systems (Workshop) (extended to 6:00 pm) Chair: Bernhard Peischl Room: 02.1</li> <li>○ <i>Test execution infrastructure for IoT quality analysis (Invited Talk)</i> Axel Rennoch</li> <li>○ <i>Case Study: Adaptive Test Automation for Testing an Adaptive Hadoop Resource Manager</i> Benedikt Eberhardinger, Hella Ponsar, Gerald Siegert, and Wolfgang Reif</li> <li>○ <i>Adaptive System for Autonomous Driving</i> Franz Wotawa and Martin Zimmermann</li> <li>○ <i>An Approach for Detecting Critical Adaptations in Automated Adaptive Software Systems</i> Shuji Morisaki and Norimitsu Kasai</li> <li>○ <i>Formal Transaction Modeling and Verification for an Adaptable Web Service Orchestration</i> Sara Zatout, Maya Souilah Benabdelhafid, and Mahmoud Boufaida</li> <li>○ <i>Influence Maximization Algorithms Research Based on Big Graphs</i> Chuanchuan You and Guangqiang Zhang</li> </ul>
16:00 – 17:40	<ul style="list-style-type: none"> <li>● Session VI-E: Blockchain, Smart Contracts, and Digital Society II (Workshop) Chair: Xudong He Room: 02.2</li> <li>○ <i>A Multiple Blockchains Architecture On Inter-Blockchain Communication</i> Kan Luo, Wei Yu, Hafiz Muhammad Amjad, Siyuan Wang, Lingchao Gao, and Kai Hu</li> <li>○ <i>Blockchain-based Proof-of-Location</i> Michele Amoretti, Giacomo Brambilla, Francesco Medioli, and Francesco Zanichelli</li> <li>○ <i>Application of Blockchain to Trade Clearing</i> Wei-Tek Tsai</li> </ul>
19:30 – 22:00	<p>Conference Banquet, Music Performance, and Award Ceremony Museu da Cidade Campo Grande 245, 1700-091 Lisboa (near de Campo Grande metro station)</p>

Thursday, July 19, 2018	
08:00 – 09:00	Registration (Foyer)
09:00 – 10:00	<ul style="list-style-type: none"> <li>• Keynote Speech III Chair: Rui Maranhao Room: Auditorium</li>   <li><i>Perspectives on Dependability and Security Benchmarking: TO BENCHMARK OR NOT TO BENCHMARK</i> Marco Vieira University of Coimbra, Portugal</li> </ul>
10:00 – 10:20	Coffee Break (Foyer)
10:20 – 12:00	<ul style="list-style-type: none"> <li>• Session VII-A: Program Analysis and Repair Chair: Gilles Perrouin Room: VA1</li>   <li>○ <i>An Analysis of Complex Industrial Test Code using Clone analysis (S)</i> Wafa Hasanain, Yvan Labiche, and Sigrid Eldh</li>   <li>○ <i>A Program Slicing-based Bayesian Network Model for Change Impact Analysis (R)</i> Ekinan Ufuktepe and Tugkan Tuglular</li>   <li>○ <i>Automatically Repairing SQL Faults (R)</i> Yun Guo, Nan Li, Jeff Offutt, and Amihai Motro</li> </ul>
10:20 – 12:00	<ul style="list-style-type: none"> <li>• Session VII-B: Human and Social Aspects of Software Quality I (Workshop) Chair: Ziyuan Wang Room: VA2</li>   <li>○ <i>Qualitative Software Reliability Requirements: Concept, Classification and Practical Elicitation Methods</i> Cong Pan, Minyan Lu, Hong Zhang, and Biao Xu</li>   <li>○ <i>A Method of Optimizing Multi-Locators Based on Machine Learning</i> Yu Zheng, Song Huang, Zhan-wei Hui, and Ya-Ning Wu</li>   <li>○ <i>Pinpoint Minimal Failure-inducing Mode Using Itemset Mining under Constraints</i> Yong Wang, Liangfen Wei, Zhiqiu Huang, Yong Li, Bingwu Fang, and Weiwei Li</li>   <li>○ <i>Coding Standards and Human Nature</i> Michael Dorin and Sergio Montenegro</li> </ul>
10:20 – 12:00	<ul style="list-style-type: none"> <li>• Session VII-C: Quality Oriented Engineering III (Workshop) Chair: Yi Yang Room: VA3</li>   <li>○ <i>Generating Complex Paths for Testing from An EFSM</i> Ana Turlea, Florentin Ipate, and Raluca Lefticaru</li>   <li>○ <i>A Data-driven Smart Fault Diagnosis method for Electric Motor</i> Xiaodong Gou, Chong Bian, Fuping Zeng, Qingyang Xu, Wencai Wang, and Shunkun Yang</li>   <li>○ <i>Simulation Design of Shop Material Supply Based on Queuing Theory</i> Shengqi Guo and Min Huang</li> </ul>
10:20 – 12:00	<ul style="list-style-type: none"> <li>• Session VII-D: Model-based Verification and Validation II (Workshop) Chair: Mario Winter Room: 02.1</li> </ul>

	<ul style="list-style-type: none"> <li>○ <i>Model-Based Crawling Rich Internet Applications for Security Testing (Invited Talk)</i> Guy-Vincent Jourdan</li> <li>○ <i>Regular Expression Based Test Sequence Generation for HDL Program Validation</i> Onur Kilincceker, Ercument Turk, Moharram Challenger, and Fevzi Belli</li> </ul>
10:20 – 12:00	<ul style="list-style-type: none"> <li>● Session VII-E: Fast Abstract Chair: Jing Guo Room: 02.2</li> <li>○ <i>Reusable Support for Task-Based Adaptive Navigation</i> Yonglei Tao</li> <li>○ <i>A proposal for A New Way of Classifying Network Security Metrics. Study of The Information Collected through A Honeypot</i> Alejandro Carrasco, Jorge Roperero, Paulino Ruiz de Clavijo, Jaime Benjumea, and Amalia Luque</li> <li>○ <i>What Software Quality Characteristics Most Concern Safety-critical Domains?</i> Fuqun Huang, Yichen Wang, Yikun Wang, and Pengyang Zong</li> <li>○ <i>An AHP-based Risk Assessment for an Industrial IoT Cloud</i> Yu-Lun Huang and Wen-Lin Sun</li> <li>○ <i>The Research on Optimization of Flame Tube Welding Process Reliability Based on Numerical Simulation</i> Rui Du, Min Huang, and Yu Zheng</li> </ul>
12:00 – 14:00	Lunch Break (Foyer) Poster Session III
14:00 – 15:40	<ul style="list-style-type: none"> <li>● Session VIII-A: Security, Reliability, and Resilience in Wireless Sensor Networks and Smart Grid I (Workshop) Chair: Yun Lin Room: VA1</li> <li>○ <i>Research on Abnormal Behavior Detection Technology of Launch Vehicle Controlled Network</i> Yang Liu, Hongping Xu, Hang Yi, Heng Zhang, Xiaotao Yan, Jian Kang, Tao He, and Weiqiang Xia</li> <li>○ <i>A Complex Network Evolution Model Based on Microscopic Characteristic of Nodes</i> Yong Wang, Jiahe Cui, Tao Zhang, Jing Yang, and Jianpei Zhang</li> <li>○ <i>A Comparative Analysis of SVM, Naive Bayes and GBDT for Data Faults Detection in WSNs</i> Ye Yuan, Shouzheng Li, Xingjian Zhang, and Jianguo Sun</li> <li>○ <i>Research on The Node Information Security of WSN Based on Multi-party Data Fusion Algorithm</i> Hanqi Yin, Zhiming Yin, Yang Yang, and Jianguo Sun</li> </ul>
14:00 – 15:40	<ul style="list-style-type: none"> <li>● Session VIII-B: Human and Social Aspects of Software Quality II (Workshop) Chair: Yong Wang Room: VA2</li> <li>○ <i>Research on Judicial Data Standard</i> Zemin Qin, Tieke He, Hao Lian, Yemao Zhou, and Zhenyu Chen</li> </ul>

	<ul style="list-style-type: none"> <li>○ <i>Research on the Information Quality Measurement of Judicial Documents</i> Hao Lian, Tieke He, Zemin Qin, Yemao Zhou, and Zhenyu Chen</li> <li>○ <i>Test Suite Augmentation via Integrating Black- and White-Box Testing Techniques</i> Zhiyi Zhang and Ju Qian</li> <li>○ <i>Fault Injection for the Performance Testing of Composite Web Services</i> Ju Qian, Han Wu, Hao Chen, and Changjian Li</li> </ul>
14:00 – 15:40	<ul style="list-style-type: none"> <li>● Session VIII-C: Reliability and Resilience of Complex Systems I (Workshop) Chair: Ning Wang Room: VA3</li> <li>○ <i>Service Oriented Resilience Strategy for Cloud Data Center</i> Yue Liu, Xiaoyang Li, and Lianghua Xiao</li> <li>○ <i>How Does Node Resilience Effect on Complex Network?</i> Qiang Dong, Chong Jin, Ruiying Li, and Rui Kang</li> <li>○ <i>Space-based Unidirectional Networks and Resiliency</i> Vaughn Standley and Edward Boucheron</li> <li>○ <i>Dynamic Importance Measure for K-out-of-n System in Presence of Dependent Failure</i> Dong Lyu and Shubin Si</li> </ul>
14:00 – 15:40	<ul style="list-style-type: none"> <li>● Session VIII-D: Trustworthy Computing (Workshop) Chair: Linghuan Hu Room: 02.1</li> <li>○ <i>Introduction of a Tool-based Continuous Information Security Management System: An Exploratory Case Study</i> Michael Brunner, Andrea Mussmann, and Ruth Breu</li> <li>○ <i>A Titration Mechanism Based Congestion Model</i> Chunlin Wang, Ning Huang, Lina Sun, and Guoyi Wen</li> <li>○ <i>Stateless Multiparty Trust Negotiation Protocol for Distributed Systems</i> Maha Allouzi and Javed Khan</li> <li>○ <i>An Analysis of Android Malware Behavior</i> Gagandeep Singh, Fehmi Jaafar, and Pavol Zavarsky</li> </ul>
14:00 – 15:40	<ul style="list-style-type: none"> <li>● Session VIII-E: System Reliability in Cloud Computing and Big Data I (Workshop) Chair: Liang Luo Room: 02.2</li> <li>○ <i>Service Reliability Oriented Modeling for The Failure of Cloud Data Center</i> Bang-An Tong, Xiaoyang Li, and Lianghua Xiao</li> <li>○ <i>Predictability of Resource Intensive Big Data and HPC Jobs in Cloud Data Centres</i> Christopher B. Hauser, Jörg Domaschka, and Stefan Wesner</li> <li>○ <i>Bug Patterns Localization Based on Topic Model for Bugs in Program Loop</i> Yong Wang, Jun Li, Liangfen Wei, Zhiqiu Huang, Yong Li, and Weiwei Li</li> <li>○ <i>Reliability Evaluation of A Parallel Job With Real-time Redundant Computing</i> Xiwei Qiu, Liang Luo, Sa Meng, and Han Xu</li> </ul>
15:40 – 16:00	Coffee Break (Foyer)



16:00 – 17:40	<ul style="list-style-type: none"> <li>• Session IX-A: Security, Reliability, and Resilience in Wireless Sensor Networks and Smart Grid II (Workshop) Chair: Tao Zhang Room: VA1</li> <li>○ <i>Industrial Wireless Sensor Network Topology Non-uniform Node Optimization Deployment</i> Jianguo Sun, Duo Liu, Yiqi Shi, Ye Yuan, and Yang Yang</li> <li>○ <i>Research on Cross-Layer Optimization of Smart Grid Demand Side Based on WSNs</i> Yuan Ren, Shuyu he, Pengyu Hu, and Jianguo Sun</li> <li>○ <i>Nonlinear Dynamic Analysis of Air Traffic Flow at Different Temporal Scales: Nonlinear Analysis Approach versus Complex Networks Approach</i> Chao Wang, Zhaoyue Zhang, and Ming Zhu</li> </ul>
16:00 – 17:40	<ul style="list-style-type: none"> <li>• Session IX-B: Reliability and Resilience of Complex Systems II (Workshop) Chair: Shubin Si Room: VA2</li> <li>○ <i>Study on the Recognition Method of the Equipment State Based on Study on The Mahalanobis-Taguchi System Modified by FDA</i> Ning Wang, Dawei Hu, and Yingbin Fu</li> <li>○ <i>A Hybrid Method of Redundancy System Reliability Analysis based on AADL Models</i> Yin Lu, Yunwei Dong, Xiaomin Wei, and Mingrui Xiao</li> <li>○ <i>Construction of User Concurrent Profile Based On Usage Logs</i> Yongqiang Zhang, Hong Zhang, Cong Pan, and Chao Feng</li> </ul>
16:00 – 17:40	<ul style="list-style-type: none"> <li>• Session IX-C: Software Engineering and Big Data (Workshop) Chair: Shou-Yu Lee Room: VA3</li> <li>○ <i>Reliability Issues in Large-Scale Network Systems (Invited Talk )</i> Liang Luo</li> <li>○ <i>An Approach to Automatic Test Case Generation for Unit Testing</i> Pan Liu</li> <li>○ <i>Embedded Software Fault Prediction Based on Back Propagation Neural Network</i> Pengyang Zong, Yichen Wang, and Feng Xie</li> <li>○ <i>Personalized Recommender System for Digital Cultural Resources</i> Shufeng Ye, Yi Yang, Weixing Huang, and Jian Wang</li> <li>○ <i>Tag Recommendation for Cultural Resources</i> Zhiwen Lei, Yi Yang, Weixing Huang, and Jian Wang</li> </ul>
16:00 – 17:40	<ul style="list-style-type: none"> <li>• Session IX-D: System Reliability in Cloud Computing and Big Data II (Workshop) Chair: Xiwei Qiu Room: 02.1</li> <li>○ <i>Task Resource Planning and Verification Method Based on Intelligent Planning</i> Haiqing Wang and Peng Sun</li> <li>○ <i>An Unsupervised Parameter Grouping Algorithm for Combinatorial testing</i> Peng Sun, Xiaochuan Tang, and Liang Luo</li> </ul>

### Poster Papers Accepted by QRS2018

- *Modeling Topic Propagation on Heterogeneous Online Social Networks*  
Zhang Beibei
- *A Method of Quality Improvement based on Big Quality Warranty Data Analysis*  
Xing Pan, Manli Zhang, and Xi Chen
- *Highly Accelerated Life Test Evaluation Based on Accelerated Growth Model*  
Yuankai Gao, Xiaogang Li, Qi Cai, Niu Lei, and Tianqi Zhang
- *Research on CodeCache Management Strategy Based on Code Heat in Dynamic Binary Translator*  
Fei Deng, Feng Gao, Yunqiang Yan, and Wei Zou
- *A Software Defect Management System Based on Knowledge Base*  
Haiyan Chai, Nan Zhang, Bojiang Liu, and Longli Tang
- *An Advanced and Innovative Cyber-physical System (CPS) for Critical Infrastructures Protection*  
Javier Hingant and Manuel Esteve