

QRS 2016 Session Schedule

Monday, August 1, 2016		
07:30–08:30	Registration	Foyer
08:30–08:40	Opening Ceremony <ul style="list-style-type: none"> • Steering Committee Chair: W. Eric Wong (University of Texas at Dallas, USA) • General Chair: Franz Wotawa (Graz University of Technology, Austria) • Program Chairs: Yves Le Traon (University of Luxembourg, Luxembourg) Zhenyu Chen (Nanjing University, China) 	EI 9
08:40–09:30	<ul style="list-style-type: none"> • Keynote Speech I <i>The Sound of Data: Make Great Software!</i> Thomas Zimmermann Microsoft Research, USA 	EI 9
09:30–10:20	<ul style="list-style-type: none"> • Keynote Speech II <i>Networks of 'Things'</i> Jeffrey Voas National Institute of Standards and Technology, USA 	EI 9
10:20–10:40	Coffee Break	Foyer
10:40–12:20 (4 papers/session)	<ul style="list-style-type: none"> • Session I-A: Cloud-based and Concurrent Programs • Session I-B: Combinatorial Testing I • Session I-C: Empirical Approaches for Software Process Quality • Session I-D: Program Verification – Invariants and Constraints 	EI 9 EI 10 EI 8 EI 7
12:20–14:00	Lunch Break Poster Session	Foyer
14:00–15:40 (4 papers/session)	<ul style="list-style-type: none"> • Session II-A: Debugging and Fixing • Session II-B: Combinatorial Testing II (Tutorial & Paper Presentation) • Session II-C: Defect Prediction Models • Session II-D: Security 	EI 9 EI 10 EI 8 EI 7
15:40–16:00	Coffee Break	Foyer
16:00–17:15 (3 papers/session)	<ul style="list-style-type: none"> • Session III-A: Databases • Session III-B: Combinatorial Testing III (Tutorial cont'd) • Session III-C: Mobile Apps Testing and Verification • Session III-D: Memory and Non-Functional Errors 	EI 9 EI 10 EI 8 EI 7
17:30–20:30	Conference Banquet [Map & Direction]	10er Marie
Tuesday, August 2, 2016		
08:00–08:40	Registration	Foyer
08:40–09:30	<ul style="list-style-type: none"> • Keynote Speech III <i>Automated Software Transplantation</i> Mark Harman University College London, UK 	EI 9
09:30–10:20	<ul style="list-style-type: none"> • Keynote Speech IV <i>Cross-disciplinary Modeling – the Good, the Bad, and the Ugly</i> Gerti Kappel Vienna University of Technology, Austria 	EI 9
10:20–10:40	Coffee Break	Foyer
10:40–12:00 (3 papers/session)	<ul style="list-style-type: none"> • Session IV-A: VVASS Workshop I (Invited Talk & Paper Presentation) • Session IV-B: Mutation and Prioritization • Session IV-C: Project and Process Prediction Models • Session IV-D: Fault Localization 	EI 9 EI 10 EI 8 EI 7

12:00–13:30	Lunch Break	Foyer
13:30–15:10 (4 papers/session)	<ul style="list-style-type: none"> • Session V-A: VVASS Workshop II • Session V-B: IA Workshop I • Session V-C: SSCPS Workshop I (Invited Talk & Paper Presentation) • Session V-D: MVV Workshop I (Tutorial & Paper Presentation) 	EI 9 EI 10 EI 8 EI 7
15:10–15:30	Coffee Break	Foyer
15:30–17:10 (4 papers/session)	<ul style="list-style-type: none"> • Session VI-A: HSCD Workshop • Session VI-B: IA Workshop II • Session VI-C: SSCPS Workshop II • Session VI-D: MVV Workshop II (Tutorial & Paper Presentation) 	EI 9 EI 10 EI 8 EI 7
19:00–21:30	Mayer's Reception & Award Presentation [Map & Direction]	City Hall

Wednesday, August 3, 2016		
08:00–08:40	Registration	Foyer
08:40–09:30	<ul style="list-style-type: none"> • Keynote Speech V <i>New Threat Models for Cryptography</i> Bart Preneel Katholieke Universiteit Leuven, Belgium 	EI 9
09:30–10:20	<ul style="list-style-type: none"> • Keynote Speech VI <i>Even the Very Wise Cannot See All Ends: Many Facets of the Test Oracle Problem</i> T.H. Tse The University of Hong Kong, Hong Kong 	EI 9
10:20–10:40	Coffee Break	Foyer
10:40–12:00 (3 papers/session)	<ul style="list-style-type: none"> • Session VII-A: Testing and Processes • Session VII-B: CRE Workshop I (Panel) • Session VII-C: SEKM Workshop I • Session VII-D: HASQ Workshop I 	EI 9 EI 10 EI 8 EI 7
12:00–13:30	Lunch Break	Foyer
13:30–15:10 (4 papers/session)	<ul style="list-style-type: none"> • Session VIII-A: IWSC Workshop I • Session VIII-B: CRE Workshop II • Session VIII-C: SEKM Workshop II • Session VIII-D: TC Workshop I 	EI 9 EI 10 EI 8 EI 7
15:10–15:30	Coffee Break	Foyer
15:30–17:10 (4 papers/session)	<ul style="list-style-type: none"> • Session IX-A: IWSC Workshop II • Session IX-B: HASQ Workshop II • Session IX-C: Fast Abstract • Session IX-D: TC Workshop II 	EI 9 EI 10 EI 8 EI 7

QRS 2016 Program

Monday, August 1, 2016	
07:30–08:30	Registration (Foyer)
08:30–08:40	<p>Opening Ceremony Room: EI 9</p> <ul style="list-style-type: none"> • Steering Committee Chair: W. Eric Wong (University of Texas at Dallas, USA) • General Chair: Franz Wotawa (Graz University of Technology, Austria) • Program Chairs: Yves Le Traon (University of Luxembourg, Luxembourg) Zhenyu Chen (Nanjing University, China)
08:40–09:30	<ul style="list-style-type: none"> • Keynote Speech I Room: EI 9 <p style="text-align: center;"><i>The Sound of Data: Make Great Software!</i> Thomas Zimmermann Microsoft Research, USA</p>
09:30–10:20	<ul style="list-style-type: none"> • Keynote Speech II Room: EI 9 <p style="text-align: center;"><i>Networks of ‘Things’</i> Jeffrey Voas National Institute of Standards and Technology, USA</p>
10:20–10:40	Coffee Break (Foyer)
10:40–12:20	<ul style="list-style-type: none"> • Session I-A: Cloud-based and Concurrent Programs Chair: Arun Sood Room: EI 9 <ul style="list-style-type: none"> ◦ <i>Hunting Killer Tasks for Cloud System Through Machine Learning: A Google Cluster Case Study</i> Hongyan Tang, Ying Li, Tong Jia, and Zhonghai Wu ◦ <i>HistLock: Efficient and Sound Hybrid Detection of Hidden Predictive Data Races with Functional Contexts</i> Jialin Yang, Chunbai Yang, and W. K. Chan ◦ <i>D-Cube: Tool for Dynamic Design Discovery from Multi-Threaded Applications using PIN</i> Srijoni Majumdar, Nachiketa Chatterjee, Shila Sahoo, and Partha Pratim Das ◦ <i>Network Performance Bottleneck Detection and Maximum Network Throughput Estimation for Datacenter Applications</i> Patrick Ngai, Sung-Jer Lu, Yu-Sung Wu, Wei-Sheng Lim, and Tung-Yueh Lin
10:40–12:20	<ul style="list-style-type: none"> • Session I-B: Combinatorial Testing I Chair: Sergiy Vilkomir Room: EI 10 <ul style="list-style-type: none"> ◦ <i>How Effective is Branch-based Combinatorial Testing? An Exploratory Study</i> Huiyan Wang, Chang Xu, Jun Sui, and Jian Lu

	<ul style="list-style-type: none"> ○ <i>Applying Combinatorial Testing in Industrial Settings</i> Xuelin Li, Ruizhi Gao, W. Eric Wong, Chunhui Yang, and Dong Li ○ <i>Test Effectiveness Evaluation of Prioritized Combinatorial Testing: A Case Study</i> Eun-Hye Choi, Shunya Kawabata, Osamu Mizuno, Cyrille Artho, and Takashi Kitamura ○ <i>TLS Cipher Suites Recommendations: A Combinatorial Coverage Measurement Approach</i> Dimitris Simos, Kristoffer Kleine, Artemios Voyiatzis, Rick Kuhn, and Raghu Kacker
10:40–12:20	<ul style="list-style-type: none"> ● Session I-C: Empirical Approaches for Software Process Quality Chair: Christian Hansen Room: EI 8 ○ <i>A Faceted Classification Scheme for Change-Based Industrial Code Review Processes</i> Tobias Baum, Olga Liskin, Kai Niklas, and Kurt Schneider ○ <i>Grey Relational Analysis based k Nearest Neighbor Missing Data Imputation for Software Quality Datasets</i> Jianglin Huang and Hongyi Sun ○ <i>Model-Driven Evaluation of Software Architecture Quality Using Model Clone Detection</i> Matthew Stephan and James Cordy ○ <i>User-Perceived Source Code Quality Estimation based on Static Analysis Metrics</i> Michail Papamichail, Themistoklis Diamantopoulos, and Andreas Symeonidis
10:40–12:20	<ul style="list-style-type: none"> ● Session I-D: Program Verification – Invariants and Constraints Chair: Irena Bojanova Room: EI 7 ○ <i>Automatic Invariant Synthesis for Arrays in Simple Programs</i> Bin Li, Zhenhao Tang, Juan Zhai, and Jianhua Zhao ○ <i>Verifying Distributed Controllers with Local Invariants</i> Yiqun Wang, Shengwei An, Xiaoxing Ma, Chun Cao, and Chang Xu ○ <i>Precondition Calculation for Loops Iterating over Data Structures</i> Juan Zhai, Bin Li, Zhenhao Tang, Jianhua Zhao, and Xuandong Li ○ <i>A Method for Pruning Infeasible Paths via Graph Transformations and Symbolic Execution</i> Romain Aissat, Marie-Claude Gaudel, Frédéric Voisin, and Burkhart Wolff
12:20–14:00	<p>Lunch Break (Foyer) Poster Session</p> <ul style="list-style-type: none"> ○ <i>Hierarchical Clustering of Group Behaviors in Cyber Situation Awareness</i> Yan Zhang, Lejian Liao, Chang Xu, and Manzhi Yang

	<ul style="list-style-type: none"> ○ <i>A Testing-coverage Software Reliability Growth Model Considering the Randomness of the Field Environment</i> Chengyong Mao and Qiuying Li ○ <i>An Industrial Case Study of Project Management Using Cross Project Software Reliability Growth Model</i> Kiyoshi Honda, Nobuhiro Nakamura, Hironori Washizaki, and Yoshiaki Fukazawa ○ <i>Metamorphic Testing of A Superficial Area Calculation Program</i> Zhan-Wei Hui and Song Huang ○ <i>Automatic Defense Through Fault Localization and Dynamic Patch Creation</i> Hsia-Hsiang Chen, Da-Qun Zheng, and Shih-Kun Huang ○ <i>Initial Framework for a Software Quality Evaluation based on ISO/IEC 25022 and ISO/IEC 25023</i> Hidenori Nakai, Naohiko Tsuda, Kiyoshi Honda, Hironori Washizaki, and Yoshiaki Fukazawa ○ <i>Detecting Bugs of Concurrent Programs with Program Invariants</i> Zuohua Ding, Rong Wang, Jueliang Hu, and Yang Liu
14:00–15:40	<ul style="list-style-type: none"> ● Session II-A: Debugging and Fixing Chair: W.K. Chan Room: EI 9 ○ <i>Towards Understanding Interactive Debugging</i> Fabio Petrillo, Zephyrin Soh, Foutse Khomh, Marcelo Pimenta, Carla Freitas, and Yann-Gael Gueheneuc ○ <i>What Makes a Satisficing Bug Report?</i> Tommaso Dal Sasso, Andrea Mocci, and Michele Lanza ○ <i>The Bugs Framework (BF): A Structured Approach to Express Bugs</i> Irena Bojanova, Paul E. Black, Yaacov Yesha, and Yan Wu ○ <i>Using a Distributed Representation of Words in Localizing Relevant Files for Bug Reports</i> Yukiya Uneno, Osamu Mizuno, and Eun-Hye Choi
14:00–15:40	<ul style="list-style-type: none"> ● Session II-B: Combinatorial Testing II (Tutorial & Paper Presentation) Chair: Raghu Kacker Room: EI 10 ○ Paper Presentation: (14:00 – 14:25) <i>Effective Test Generation for Combinatorial Decision Coverage</i> Ruizhi Gao, Linghuan Hu, W. Eric Wong, Han-Lin Lu, and Shih-Kun Huang ○ Paper Presentation: (14:25 – 14:50) <i>Combinatorial Testing of Software with Binary Inputs: A State-of-the-Art Review</i> Sergiy Vilkomir ○ Tutorial: (14:50 – 15:40) (Tutorial on Combinatorial Testing)

	<p>Dimitris Simos (SBA Research, Austria) Rick Kuhn (National Institute of Standards and Technology, USA) Yu Lei (University of Texas at Arlington, USA) Raghu Kacker (National Institute of Standards and Technology, USA)</p>
14:00–15:40	<ul style="list-style-type: none"> • Session II-C: Defect Prediction Models Chair: Jongmoon Baik Room: EI 8 <ul style="list-style-type: none"> ◦ <i>Thresholds for Size and Complexity Metrics: A Case Study from the Perspective of Defect Density</i> Kazuhiro Yamashita, Changyun Huang, Meiyappan Nagappan, Yasutaka Kamei, Audris Mockus, Ahmed E. Hassan, and Naoyasu Ubayashi ◦ <i>Correlation between the Distribution of Software Bugs and Network Motifs</i> Shaoxiong Zhang, Jun Ai, and Xuelin Li ◦ <i>Empirical Evaluation of Cross-Release Effort-Aware Defect Prediction Models</i> Kwabena Ebo Bennin, Koji Toda, Yasutaka Kamei, Jacky Keung, Akito Monden, and Naoyasu Ubayashi ◦ <i>Profiling Android Vulnerabilities</i> Matthieu Jimenez, Mike Papadakis, Tegawendé Bissyandé, and Jacques Klein
14:00–15:40	<ul style="list-style-type: none"> • Session II-D: Security Chair: Alexander Knapp Room: EI 7 <ul style="list-style-type: none"> ◦ <i>Protecting Legacy Code against Control Hijacking via Execution Location Equivalence Checking</i> Tobias F. Pfeffer, Stefan Sydow, Joachim Fellmuth, and Paula Herber ◦ <i>Firewalls for the Web 2.0</i> René Rietz, Hartmut König, Steffen Ullrich, and Benjamin Stritter ◦ <i>Testing Security Requirements with Non-Experts: Approaches and Empirical Investigations</i> Bernhard Peischl, Michael Felderer, and Armin Beer
15:40–16:00	Coffee Break (Foyer)
16:00–17:15	<ul style="list-style-type: none"> • Session III-A: Databases Chair: Tolga Ayav Room: EI 9 <ul style="list-style-type: none"> ◦ <i>Detecting and Preventing Program Inconsistencies Under Database Schema Evolution</i> Loup Meurice, Csaba Nagy, and Anthony Cleve ◦ <i>Quantitative Analysis of Variation-Aware Internet of Things Designs using Statistical Model Checking</i> Siyuan Xu, Weikai Miao, Thomas Kunz, Tongquan Wei, and Mingsong Chen ◦ <i>Quantifying the Impact of Replication on the Quality-of-Service in Cloud Databases</i> Rasha Osman, Juan F. Perez, and Giuliano Casale

16:00–17:15	<ul style="list-style-type: none"> • Session III-B: Combinatorial Testing III (Tutorial cont'd) Room: EI 10 <p>Dimitris Simos (SBA Research, Austria) Rick Kuhn (National Institute of Standards and Technology, USA) Yu Lei (University of Texas at Arlington, USA) Raghu Kacker (National Institute of Standards and Technology, USA)</p>
16:00–17:15	<ul style="list-style-type: none"> • Session III-C: Mobile Apps Testing and Verification Chair: Rong Chen Room: EI 8 <ul style="list-style-type: none"> ◦ <i>Facilitating Monkey Test by Detecting Operable Regions in Rendered GUI of Mobile Game Apps</i> Chenglong Sun, Zhenyu Zhang, Bo Jiang, and W. K. Chan ◦ <i>MedicationChecker: Development of a Formally Verified Android Application with EventB2SQL</i> Tim Wahls ◦ <i>Improving Protocol Passive Testing through Experiments with Finite State Machines</i> Natalia Kushik, Jorge López, Ana Cavalli, and Nina Yevtushenko
16:00–17:15	<ul style="list-style-type: none"> • Session III-D: Memory and Non-Functional Errors Chair: Shaoying Liu Room: EI 7 <ul style="list-style-type: none"> ◦ <i>Leveraging Static Analysis Tools for Improving Usability of Memory Error Sanitization Compilers</i> Rigel Gjomemo, Phu H. Phung, Edmund Ballou, Kedar S. Namjoshi, V. N. Venkatakrisnan, and Lenore Zuck ◦ <i>NOTICE: A Framework for Non-functional Testing of Compilers</i> Mohamed Boussaa, Olivier Barais, Benoit Baudry, and Gerson Sunyé ◦ <i>A Specification-Based Approach to the Testing of Java Memory Bloat</i> Ju Qian, Xiaoyu Zhou, Wanchun Dang, and Ziyuan Wang
17:30–20:30	Conference Banquet at 10er Marie

Tuesday, August 2, 2016	
08:00–08:40	Registration (Foyer)
08:40–09:30	<ul style="list-style-type: none"> • Keynote Speech III Room: EI 9 <p><i>Automated Software Transplantation</i> Mark Harman University College London, UK</p>
09:30–10:20	<ul style="list-style-type: none"> • Keynote Speech IV Room: EI 9 <p><i>Cross-disciplinary Modeling – the Good, the Bad, and the Ugly</i> Gerti Kappel Vienna University of Technology, Austria</p>
10:20–10:40	Coffee Break (Foyer)

10:40–12:00	<ul style="list-style-type: none"> • Session IV-A: VVASS Workshop I (Invited Talk & Paper Presentation) Chair: Benedikt Eberhardinger Room: EI 9 <ul style="list-style-type: none"> ○ Invited Talk: (10:40–11:30) <i>Towards Cyber-Physical-Social Systems – Towards a New Paradigm for Elastic Distributed Systems</i> Schahram Dustdar Vienna University of Technology, Austria ○ Paper Presentation: (11:35–12:00) <i>Iterative Path Clustering for Software Fault Localization</i> Rong Chen, Shifeng Chen, and Nan Zhang
10:40–12:00	<ul style="list-style-type: none"> • Session IV-B: Mutation and Prioritization Chair: Mike Papadakis Room: EI 10 <ul style="list-style-type: none"> ○ <i>Mutation Integration Testing</i> Mark Grechanik and Gurudev Devanla ○ <i>A Model to Estimate First-Order Mutation Coverage from Higher-Order Mutation Coverage</i> Ali Parsai, Alessandro Murgia, and Serge Demeyer ○ <i>Test Case Prioritization using Adaptive Random Sequence with Category-Partition-based Distance</i> Xiaofang Zhang, Xiaoyuan Xie, and Tsong Yueh Chen
10:40–12:00	<ul style="list-style-type: none"> • Session IV-C: Project and Process Prediction Models Chair: Osamu Mizuno Room: EI 8 <ul style="list-style-type: none"> ○ <i>Software Reliability Analysis of NASA Space Flight Software: A Practical Experience</i> Harish Sukhwani, Javier Alonso, Kishor S. Trivedi, and Isaac Mcginnis ○ <i>How Does the Dependence between Inspectors Impact Capture-recapture Estimation? An Empirical Study</i> Ou Wu ○ <i>Which Change Sets in Git Repositories Are Related?</i> Jasmin Ramadani and Stefan Wagner
10:40–12:00	<ul style="list-style-type: none"> • Session IV-D: Fault Localization Chair: Chang Xu Room: EI 7 <ul style="list-style-type: none"> ○ <i>DFL: Dual-service Fault Localization</i> C. M. Tang, Jacky Keung, Y. T. Yu, and W. K. Chan ○ <i>Automatic Localization of Bugs to Faulty Components in Large Scale Software Systems using Bayesian Classification</i> Leif Jonsson, David Broman, Måns Magnusson, Kristian Sandahl, Mattias Villani, and Sigrid Eldh

	<ul style="list-style-type: none"> ○ <i>Towards More Accurate Fault Localization: An Approach Based on Feature Selection Using Branching Execution Probability</i> Ang Li, Yan Lei, and Xiaoguang Mao
12:00–13:30	Lunch Break (Foyer)
13:30–15:10	<ul style="list-style-type: none"> ● Session V-A: VVASS Workshop II Chair: Bernhard Peischl Room: EI 9 ○ <i>Supervision of Hardware, Software and Behavior of Autonomous Industrial Transport Robots</i> Gerald Steinbauer, Stefan Loigge, and Clemens Mühlbacher ○ <i>Toward Integrated Analysis & Testing of Component-Based, Adaptive Robot Systems</i> Benedikt Eberhardinger, Axel Habermaier, Alwin Hoffmann, Alexander Poeppel, and Wolfgang Reif ○ <i>Hunting the Game - Towards a Game of Testing Adaptive Systems</i> André Reichstaller and Alexander Knapp ○ <i>Testing Self-Adaptive Systems using Fault Injection and Combinatorial Testing</i> Franz Wotawa
13:30–15:10	<ul style="list-style-type: none"> ● Session V-B: IA Workshop I Chair: Matthew Stephan Room: EI 10 ○ <i>A Study on the State of Practice in Security Situational Awareness</i> Teemu Kanstrén and Antti Evesti ○ <i>Designing Adaptive Deception Strategies</i> Cristiano De Faveri and Ana Moreira ○ <i>Experimental Comparison of Software Reliability Models Based on Code Coverage and on Time Domain</i> Odair Jacinto da Silva, Adalberto Crespo, and Mario Jino ○ <i>Detection of Fault-Prone Classes Using Logistic Regression Based Object-Oriented Metrics Thresholds</i> Shahid Hussain, Jacky Keung, Arif Ali Khan, and Kwabena Ebo Bennin
13:30–15:10	<ul style="list-style-type: none"> ● Session V-C: SSCPS Workshop I (Invited Talk & Paper Presentation) Chair: Yunwei Dong Room: EI 8 ○ Invited Talk: (13:30–14:20) <i>Software Reliability Engineering Practice in the Development of Embedded RTOS</i> Wei Han The Aeronautic Computing Technique Institute of Aviation Industries of China ○ Paper Presentation: (14:20–14:45) <i>P2P-based Full Digital Co-simulation and Verification System Design</i> Fei Deng and Feng Gao

	<ul style="list-style-type: none"> ○ Paper Presentation: (14:45–15:10) <i>ConfMapper: Automated Variable Finding for Configuration Items in Source Code</i> Shulin Zhou, Xiaodong Liu, Shanshan Li, Wei Dong, Xiangke Liao, and Yun Xiong
13:30–15:10	<ul style="list-style-type: none"> ● Session V-D: MVV Workshop I (Tutorial & Paper Presentation) Chair: Fevzi Belli Room: EI 7 ○ Tutorial: (13:30–14:20) <i>Test by Contract for Software: A Survey</i> Tugkan Tuglular Izmir Institute of Technology, Turkey ○ Paper Presentation (14:20–14:45) <i>Model-Based Testing Directed by Structural Coverage and Functional Requirements</i> Yanjun Sun, Gérard Memmi and Sylvie Vignes ○ Paper Presentation (14:45–15:10) <i>A Method based on Meta-Model for the Translation from UML into Event-B</i> Weixuan Sun, Hong Zhang, Chao Feng, and Yangzhen Fu
15:10–15:30	Coffee Break (Foyer)
15:30–17:10	<ul style="list-style-type: none"> ● Session VI-A: HSCD Workshop Chair: Yixiang Chen Room: EI 9 ○ <i>Design of A Networked Embedded Software Test Platform Based on Software and Hardware Co-simulation</i> Feng Gao and Fei Deng ○ <i>A Self-Adaptive Traffic Light Control System Based on Speed of Vehicles</i> Jinyang Li, Yuanrui Zhang, and Yixiang Chen ○ <i>A Programmable CNN Architecture and Its Hardware-Software Co-Design Approach for Image Processing and Stimulating Visual Illusions</i> Jianwei Zheng, Chunhang Xu, and Donghui Guo ○ <i>Safety Awareness Online Detection System of Driving Behavior Based on Software and Hardware Co-design</i> Jihu Zhang, Haipeng Wang, Wu Liu, Yan Gong, Yunwei Dong, Xiaochuan Jing, and Wei Zhang
15:30–17:10	<ul style="list-style-type: none"> ● Session VI-B: IA Workshop II Chair: Shi-Kun Huang Room: EI 10 ○ <i>A Systematic Approach for Privilege Escalation Prevention</i> Fehmi Jaafar, Gabriela Nicolescu, and Christian Richard ○ <i>A Statistical Analysis of Operational Profile Driven Testing</i> Herman Hartmann ○ <i>SliceLife: Multiparty Trust Negotiation Protocol in Software Defined Networks</i> Maha Ali Allouzi and Javed Khan

	<ul style="list-style-type: none"> ○ <i>Measurement and Prediction of SaaS Reliability in the Cloud</i> Mohammed O. Alanssary and Jeff Tian
15:30–17:10	<ul style="list-style-type: none"> ● Session VI-C: SSCPS Workshop II Chair: Mark Grechanik Room: EI 8 ○ <i>A UTP Refinement Model of the STeC Language</i> Yuanrui Zhang, Yujing Ma, and Yixiang Chen ○ <i>Modeling and Verifying Intelligent Unit Transmission Protocol Using CSP Model Checker PAT</i> Zhipeng Shao, Hanyong Hao, Yuanyuan Ma, Chen Wang, and Jiaxuan Fei ○ <i>A Wireless Power Transfer CPS based on 2D Omni-directional Rotating Magnetic Field</i> Pengpeng Sun, Yunwei Dong, Hong Ye, and Hongbin Zhao ○ <i>Analyzing Math Library Functions via Summarization</i> Jiahong Jiang, Liqian Chen, Yanjun Wen, Wei Dong, and Ling Wen
15:30–17:10	<ul style="list-style-type: none"> ● Session VI-D: MVV Workshop II (Tutorial & Paper Presentation) Chair: Tugkan Tuglular Room: EI 7 ○ Tutorial: (15:30–16:20) <i>Model-Based Testing of Reusable Software Components and Systems</i> Fevzi Belli University of Paderborn, Germany ○ Paper Presentation: (16:20–16:45) <i>Model-based Software Product Line Testing by Coupling Feature Models with Hierarchical Markov Chain Usage Models</i> Ceren Sahin Gebizli and Hasan Sozer ○ Paper Presentation: (16:45–17:10) <i>Moving Switching Functions to Continuous Domain</i> Tolga Ayav and Hasan Sozer
19:00–21:30	Mayer's Reception & Award Presentation at City Hall

Wednesday, August 3, 2016	
08:00–08:40	Registration (Foyer)
08:40–09:30	<ul style="list-style-type: none"> ● Keynote Speech V Room: EI 9 <i>New Threat Models for Cryptography</i> Bart Preneel Katholieke Universiteit Leuven, Belgium
09:30–10:20	<ul style="list-style-type: none"> ● Keynote Speech VI Room: EI 9 <i>Even the Very Wise Cannot See All Ends: Many Facets of the Test Oracle Problem</i> T.H. Tse The University of Hong Kong, Hong Kong
10:20–10:40	Coffee Break (Foyer)

10:40–12:00	<ul style="list-style-type: none"> • Session VII-A: Testing and Processes Chair: Mercedes Merayo Room: EI 9 ○ <i>Testing and Debugging in Continuous Integration with Budget Quotas on Test Executions</i> Bo Jiang and W. K. Chan ○ <i>A Tool Supported Testing Method for Reducing Cost and Improving Quality</i> Shaoying Liu ○ <i>Resource/Schedule/Content Test Planning Model</i> Pete Rotella
10:40–12:00	<ul style="list-style-type: none"> • Session VII-B: CRE Workshop I (Panel) Chair: Nick Multari Room: EI 10 <i>Achieving Defensive Asymmetrical Advantage via Technical, Policy, and Organizational Means</i> Paul Nielsen, Director, CMU/SEI Bob Cowles, former CISO, SLAC Accelerator National Lab George Sharkov, Coordinator, Cybersecurity for the Bulgarian Government Rolf Reinema, Head, IT-Security, Siemens
10:40–12:00	<ul style="list-style-type: none"> • Session VII-C: SEKM Workshop I Chair: Jianwen Xiang Room: EI 8 ○ <i>CAT: A Customized Automata Toolkit</i> Ruoyu Wang, Guoqiang Li, Daniel W. Sun, Jianwen Xiang, and Hongming Cai ○ <i>A Product Recommendation Approach Based on the Latent Social Trust Network Model for Collaborative Filtering</i> Xian Yang, Jiangning Wu, Yanzhong Dang, and Lili Rong ○ <i>Surveys on Knowledge Management and Knowledge Creation in a Chinese Research University</i> Jianguo Wu, Jing Tian, Liping Lu, Caisheng Wang, and Jianwen Xiang
10:40–12:00	<ul style="list-style-type: none"> • Session VII-D: HASQ Workshop I Chair: Ziyuan Wang Room: EI 7 ○ <i>Weighted Control Flow Subgraph to Support Debugging Activities</i> Yong Wang and Zhiqiu Huang ○ <i>Automated Evaluation for Performance Test Scripts</i> Ruijing Gao, Zhenyu Chen, Chunrong Fang, Tieke He, Peizhang Xie, and Jungui Zhou ○ <i>Mining Cryptography Misuse in Online Forums</i> Alexandre Braga and Ricardo Dahab
12:00–13:30	Lunch Break (Foyer)
13:30–15:10	<ul style="list-style-type: none"> • Session VIII-A: IWSC Workshop I Chair: Donghui Guo Room: EI 9

	<ul style="list-style-type: none"> ○ <i>An Approach to Controlling Context by Combining Game Theory and Control Theory for Self-Adaptive Software in Creative Computing</i> Lin Zou, Hongji Yang, and Lei Xu ○ <i>Neurofeedback and Creativity in Interceptive Human Movement: A Theoretical Model for Neurocybernetics Based Kinaesthetic Multimodal Learning Agent</i> Devanka Pathak, Hongji Yang, and Tin-Kai Chen ○ <i>A Self-Tuning Procedure for Resource Management in InterCloud Computing</i> Suleiman Onimisi Aliyu, Feng Chen, and Han Li
13:30–15:10	<ul style="list-style-type: none"> ● Session VIII-B: CRE Workshop II Chair: Jeffrey Picciotto Room: EI 10 ○ <i>Security by Insurance for Services</i> Fabio Martinelli and Artsiom Yautsiukhin ○ <i>Motivating Security Engineering with Economics: A Utility Function Approach</i> Chad Heitzenrater, Justin King-Lacroix, and Andrew Simpson ○ <i>Asymmetry in Coevolving Adversarial Systems</i> Richard Colbaugh and Kristin Glass ○ <i>Economics of Resilient Cloud Services</i> Brandon Wagner and Arun Sood
13:30–15:10	<ul style="list-style-type: none"> ● Session VIII-C: SEKM Workshop II Chair: Hironori Washizaki Room: EI 8 ○ <i>An Evaluation Framework of Knowledge Management Activities</i> Fei Meng, Yoshiteru Nakamori, Jing Tian, and Jianwen Xiang ○ <i>Exploring Academic Knowledge Creation Models for Graduate Researches</i> Jing Sun, Yoshiteru Nakamori, Jing Tian, and Jianwen Xiang ○ <i>The Effect of Interpersonal Trust on Interpersonal Knowledge Interaction: A New Thought</i> Deqiang Hu and Yanzhong Dang ○ <i>Research on the DMC-based Patent Analysis</i> Donghua Pan, Xudong Wang, and Haoxiang Xia
13:30–15:10	<ul style="list-style-type: none"> ● Session VIII-D: TC Workshop I Chair: Y.T. Yu Room: EI 7 ○ <i>A Tool for Security Measuring and Probe Management</i> Tiandu Zhao, Antti Evesti, and Teemu Kanstrén ○ <i>An Error Model for Multi-Threaded Single-node Applications, and Its Implementation</i> Lena Feinbube, Daniel Richter, and Andreas Polze

	<ul style="list-style-type: none"> ○ <i>Empirical Analysis of Factors Affecting Time-Leverage Nodes of Complex Software</i> Qian Ye, Minyan Lu, and Luyi Li ○ <i>Test-Suite Reduction Does Not Necessarily Require Executing the Program Under Test</i> Hermann Felbinger, Franz Wotawa, and Mihai Nica
15:10–15:30	Coffee Break (Foyer)
15:30–17:10	<ul style="list-style-type: none"> ● Session IX-A: IWSC Workshop II Chair: Feng Chen Room: EI 9 ○ <i>Reliability-Performance-Energy Joint Modeling and Optimization for a Big Data Task</i> Xiwei Qiu, Liang Luo, and Yuanshun Dai ○ <i>Performance Analysis of Cloud Service Considering Reliability</i> Peng Sun, Demiao Wu, Xiwei Qiu, Liang Luo, and Hongwei Li
15:30–17:10	<ul style="list-style-type: none"> ● Session IX-B: HASQ Workshop II Chair: Jifeng Xuan Room: EI 10 ○ <i>Recommendations Based on LDA Topic Model in Android Applications</i> Tianhao Pan, Weifeng Zhang, Ziyuan Wang, and Lei Xu ○ <i>An Automated Testing Platform for Mobile Applications</i> Xin Ma, Ning Wang, Peizhang Xie, Jungui Zhou, Xiaofang Zhang, and Chunrong Fang ○ <i>Fault Localization Guided Execution Comparison for Failure Comprehension</i> Mengleng Liu, Pei Liu, Xiaoshuang Yang, and Lei Zhao ○ <i>The Evaluation of the Embedded Software Quality Based on The Binary Code</i> Jinshuo Liu, Yusen Chen, Lanxin Zhang, Juan Deng, and Weixin Zhang
15:30–17:10	<ul style="list-style-type: none"> ● Session IX-C: Fast Abstract Chair: Dimitris Simos Room: EI 8 ○ <i>An Under-Sampling Method Based on Principal Component Analysis and Comprehensive Evaluation Model</i> Yangzhen Fu, Hong Zhang, Yaxin Bai, and Weixuan Sun ○ <i>A Resource Optimization Algorithm of Cloud Data Center based on Correlated Model of Reliability, Performance and Energy</i> Liang Luo, Hongwei Li, Xiwei Qiu, and Yangyang Tang ○ <i>Improving Security Level via Velocity of Moving Target Defense</i> Quyen L. Nguyen, and Arun Sood
15:30–17:10	<ul style="list-style-type: none"> ● Session IX-D: TC Workshop II Chair: Yu-Sung Wu Room: EI 7 ○ <i>iCruiser: Protecting Kernel Link-Based Data Structures with Secure Canary</i> Li Wang, Dinghao Wu, and Peng Liu

	<ul style="list-style-type: none">○ <i>Case Study: Project Management Using Cross Project Software Reliability Growth Model</i> Kiyoshi Honda, Nobuhiro Nakamura, Hironori Washizaki, Yoshiaki Fukazawa○ <i>A Real-time Collaborative Testing Approach for Web Application: Via Multi-Tasks Matching</i> Shikai Guo, Rong Chen, and Hui Li
--	---