SSIRI 2010 Conference Agenda

Wednesday, June 9 , 2010		
8:30 am - 9:00 am	Registration	
9:00 am - 10:30 am Seminar Room1 Chair: Jin Song Dong	Opening Session SSIRI Steering Committee Chairs: Sam Keene & W. Eric Wong SSIRI 2010 General Chair: Jin Song Dong SSIRI 2010 Program Chairs: Jun Sun, Ravi Madipadaga, Dianxiang Xu Keynote I <i>Keynote: Once more, with meaning: A Grand Challenge in Informatics</i> Professor Jim Davies, University of Oxford, UK	
10:30 am - 11:00 am	Coffee Break	
11:00 am - 12:30 pm Seminar Room 1 Chair: Fevzi Belli	Session 1A: Safety & Anomaly Detection Recent Catastrophic Accidents: Investigating How Software Was Responsible W. Eric Wong, Vidroha Debroy, Adithya Surampudi, HyeonJeong Kim and Michael F. Siok Modeling and Verification of Safety Critical Systems: A Case Study on Pacemaker Luu Anh Tuan, Man Chun Zheng and Quan Thanh Tho Discovering Anomalies in Semantic Web Rules Yuzhang Feng, Yang Liu, Yuan-Fang Li and Daqing Zhang	
11:00 am - 12:30 pm Seminar Room 3 Chair: Liu Shaoying	Session 1B: Model Checking & Verification Model Checking a Lazy Concurrent List-Based Set Algorithm Shaojie Zhang and Yang Liu YAWL2DVE: An Automated Translator for Workflow Verification Fazle Rabbi, Hao Wang and Wendy MacCaull Scalable V&V Effort Estimation for Ultra-Large-Scale Systems Christof J. Budnik, Rajesh Subramanyan and Raj Tanikella	
11:00 am - 12:30 pm Seminar Room 3 Chair: Xu Dianxiang	Session 1C: Security Requirements (Invited Session) Aligning Security Requirements and Security Assurance using the Common Criteria Kenji Taguchi, Nobukazu Yoshioka, Takayuki Tobita and Hiroyuki Kaneko An Agent-based System to Support Assurance of Security Requirements Moussa Ouedraogo, Haralambos Mouratidis, Djamel Khadraoui, and Eric Dubois Model-Based Argument Analysis for Evolving Security Requirements Thein Than Tun, Yijun Yu, Charles Haley and Bashar Nuseibeh	
12:30 pm - 2:00 pm	Lunch Break	
2:00 pm - 3:00 pm Seminar Room 1 Chair: Eric Wong	Keynote II <i>Defining, Securing, and Standardizing Cloud Computing</i> Dr. Tim Grance, National Institute of Standards and Technology, USA	
3:00 pm - 3:30 pm	Coffee Break	

3:30 pm - 5:30 pm Seminar Room 1 Chair: Min Xie	Session 2A: Software Reliability Failure Type-Aware Reliability Assessment with Component Failure Dependency Atef Mohamed and Mohammad Zulkernine Software Reliability Modeling with Integrated Test Coverage Jinxia An and Jihong Zhu Sensitivity of Coverage-Based Software Reliability Models to Variations in the Operational Profile Odair Silva, Adalberto Crespo, Marcos Chaim and Mario Jino	
3:30 pm - 5:30 pm Seminar Room 2 Chair: Kenji Taguchi	Session 2B: Software Testing I A Formal Framework for Mutation Testing Fevzi Belli and Mutlu Beyazit An Industrial Case Study on Speeding up User Acceptance Testing by Mining Execution Logs Zhen Ming Jiang, Alberto Avritzer, Emad Shihab, Ahmed E. Hassan and Parminder Flora Testing Effort Dependent Software FDP and FCP Models with Consideration of Imperfect Debugging Rui Peng, Qingpei Hu, Szuhui Ng and Min Xie A Decompositional Approach to Automatic Test Case Generation Based on Formal Specifications Shaoying Liu and Shin Nakajima	
3:30 pm - 5:30 pm Seminar Room 3 Chair: Thein Than Tun	Session 2C: Quality Improvement Availability Improvement in Virtualized Multiple Servers with Software Rejuvenation and Virtualization May Tar Hla Myint and Thandar Thein Traceability Enhancement Technique through the Integration of Software Configuration Management and Personal Working Environment Dae-Yeob Kim and Cheong Youn Recoverability of Erasure Codes based and Intensively Written Storage Systems Xiangyu Luo and Yun Wang Towards a New Understanding of Advice Interference Kun Tian, Kendra Cooper, Kang Zhang, Yan Tang and Siyuan Liu	
6:00 pm - 8:00 pm	Conference Reception	
Thursday, June, 10, 2010		
9:00 am - 10:00 am Seminar Room 1 Chair: Jin Song Dong	Keynote III <i>Software Verification via Separation Logic</i> Professor Wei-Ngan Chin, National University of Singapore	
10:00 am - 10:30 am	Coffee Break	
10:30 am - 12:00 pm Seminar Room 1 Chair: John P. Hayes	Session 3A: Software Testing II Self-Checked Metamorphic Testing of an Image Processing Program Junhua Ding, Tong Wu, Jun Q. Lu and Xin-hua Hu PhishTester: Automatic Testing of Phishing Attacks Hossain Shahriar and Mohammad Zulkernine Towards Scalable Robustness Testing Fevzi Belli, Axel Hollmann and W. Eric Wong	

10:30 am - 12:00 pm Seminar Room 2 Chair: Jack ZhenMing Jiang	Session 3B: Modeling & Analysis Modeling and Analyzing Timed Security Protocols Using Extended Timed CSP Xian Zhang, Yang Liu and Mikhail Auguston Modeling Uncertainties in the Estimation of Software Reliability – A Pragmatic Approach Senthil Kumar Chandran, Aleksandar Dimov and Sasikumar Punnekkat The 'Best' Valid Safe Protocol Converter Jing Cao and Albert Nymeyer
12:00 pm - 1:30 pm	Lunch Break
1:30 pm - 3:00 pm Seminar Room 1 Chair: Jun Sun	Section 4A: Workshop on Model-based Verification and Validation I Design Patterns for Integrating Variability in Timed Automata Ralf Mitsching, Carsten Weise and Stefan Kowalewski Towards Test Case Generation for Synthesizable VHDL Programs Using Model Checker Tolga Ayav, Tugkan Tuglular and Fevzi Belli Modeling Efficient Multi-chained Stream Signature Protocol using Communicating Sequential Processes Ahmet Koltuksuz, Murat Ozkan and Burcu Kulahcioglu
1:30 pm - 3:00 pm Seminar Room 2 Chair: Liu Yang	Section 4B: Workshop on Model Checking Secure & Reliable Systems I Classification of Static Analysis-based Buffer Overflow Detectors Hossain Shahriar and Mohammad Zulkernine Formal Analysis for Stateflow Diagrams Chunqing Chen Job-Shop Scheduling Problems using Timed Planning Xian Zhang
1:30 pm - 3:00 pm Seminar Room 3 Chair: Geguang Pu	Session 4C: Student Doctoral Program I An Automatic Approach to Model Checking UML State Machines Shao Jie Zhang and Yang Liu An Automatic Approach To Verify Sensor Network Systems Manchun Zheng
3:00 pm - 3:30 pm	Coffee Break
3:30 pm - 5:30 pm Seminar Room 1 Chair: Junhua Ding	Section 5A: Workshop on Model-based Verification and Validation II Event- and Coverage-Based Testing of Web Services Andr éT. Endo, Michael Linschulte, Adenilso S. Sim ão and Simone R. S. Souza Generalized Partial Test Case Generation Method Lehilton Lelis Chaves Pedrosa and Arnaldo Vieira Moura Are Longer Test Sequences Always Better? – A Reliability Theoretical Analysis Fevzi Belli, Nevin Güler and Michael Linschulte Utilization of Timed Automata as a Verification Tool for Security Protocols Ahmet Koltuksuz, Burcu Kulahcioglu and Murat Ozkan
3:30 pm - 5:30 pm Seminar Room 2 Chair: Carsten Weise	Section 5B: Workshop on Model Checking Secure & Reliable Systems II Quantitative Evaluation of Related Web-based Vulnerabilities Deepak Subramanian, Ha Thanh Le, Peter Kok Keong Loh and Annamalai Benjamin Premkumar Using Multi Decision Diagram in Model Checking Truong Khanh Nguyen and Quan Thanh Tho Analysing System Failure Behaviors With PRISM Xiaocheng Ge, Richard F. Paige and John A. McDemid Yet Another Model Checker for PROMELA - the Transformation Approach Wendi Zhao

3:30 pm - 5:30 pm Seminar Room 3 Chair: Chen Chunqing	Section 5C: Fast Abstract An Efficient Method of Probabilistic Model Checking Songzheng Song Constraint Checking for XML-based Language Specification by SAT Solver Hao Xiao, Zheng Wang and Geguang Pu Parallel Lexical Analyzer on the Cell Processor G. Umarani Snikanth Model Checking C# Code: A Translation Approach Huiquan Zhu Structure Assurance Case Methodology for Assessing Software Trustworthiness Elizabeth Fong, Michael Kass, Thomas Rhodes and Frederick Boland The Problem of Usable Binary Authentication Yongzheng Wu and Roland H. C. Yap Towards Verification of a Service Orchestration Language Tian Huat Tan	
6:00 pm - 10:00 pm	Conference Banquet	
Friday, June 11, 2010		
9:00 am - 10:00 am Seminar Room 1 Chair: Jin Song Dong	Keynote IV <i>Modeling and Implementing Complex Systems with Timebands</i> Professor Jim Woodcock, University of York, UK	
10:00 am - 10:30 am	Coffee Break	
10:30 am - 12:00 pm Seminar Room 1 Chair: Tugkan Tuglular	 Session 6A: Workshop on Model Checking Secure & Reliable Systems III Modeling and Verification of Transmission Protocols: A Case Study on CSMA/CD Protocol Ling Shi and Yan Liu MAFSE: A Model-based Framework for Software Verification Tho T. Quan, Duc L. N. Hoang, Binh T. Nguyen, An N. Nguyen, Quan D. Tran, Phung H. Nguyen, Thang H. Bui, Anh T. Do, Linh V. Huynh, Nam T. Doan, Nguyen T. Huynh, Thien D. Nguyen, Tam T. Nguyen and Vu H. Nguyen Modeling and Verifying Security Protocols using PAT Approach Luu Anh Tuan 	
10:30 am - 12:00 pm Seminar Room 2 Chair: Peter Loh	Section 6B: Student Doctoral Program II An Approach to Achieving the Reliability in TV Embedded System Dusica Marijan, Nikola Teslic, Vukota Pekovic and Tarkan Tekcan Modeling and Analysis of Advanced Automotive ECU Architectures at Early Design Stages using EMF and Model Transformation Christoph Lauer, Reinhard German and Jens Pollmer	
12:00 am - 12:30 pm	Closing Session & End of SSIRI 2010	