

Monday July 21: Workshop Day

8:30-10:00 Joint Keynote address

Professor Erol Gelenbe, Imperial College, UK

“Adaptive Management of Energy Packets”

Location: Hörsalen (1st Floor)

Session Chairs: Mihhail Matskin, Yasuo Okabe, and Selmin Nurcan

10:00-10:30	Coffee Break							
Room	105	109	110	107	108	106	101	103
10:30-12:00	IWSC	ADMNET	CFSE	STPSA	UCDAS	SAPSE	SocNet	WRMOCC
12:00-13:30	Lunch							
13:30-15:00	IWSC	ADMNET	MidArch	STPSA	UCDAS	CORCS-IEESD	BIoT	WRMOCC
15:00-15:30	Coffee Break							
15:30-17:00	IWSC	ADMNET	MidArch	STPSA	ESAS	CORCS-IEESD	BIoT	
17:00-17:15	Coffee Break							
17:15-18:45		ADMNET						

Tuesday July 22: Conference Day 1

8:30am - 10:00am	<p>Opening Session</p> <p>Conference Welcome and Opening Remarks</p> <p>Carl K. Chang: COMPSAC Standing Committee Chair</p> <p>Bruce McMillin: Steering Committee Chair</p> <p>John Walz and Tiberiu Seceleanu: General Chairs</p> <p>Ali Hurson, Cristina Seceleanu, and Kenichi Yoshida: Program Chairs</p> <p>Keynote Address: Prof. David Harel, Weizmann Institute of Science, Israel</p> <p>Programming Liberated: Playing and Talking Behavioral Scenarios</p> <p>Location: Main Congress Hall (2nd Floor)</p> <p>Session Chair: John Walz</p>			
Room	302	301	109	108
10:00-10:30	<i>Morning Break</i>			
10:30-12:00	<p>Plenary Panel: Computing Education in 2050</p> <p>Location: Main Congress Hall (2nd Floor)</p>			
12:00-13:30	<i>Lunch</i>			
13:30-15:00	Software Engineering I	Automated Analysis in Software Engineering	Validation & Verification	Bug Reports
15:00-15:30	<i>Afternoon Break</i>			
15:30-17:00	Service & Application	Quality Assurance and Assessment I	Spec & Requirements	
18:30-21:30	<p>Welcome Reception</p> <p>Location: Västerås Concert Hall's Foyer (nearby Aros Congress Centre)</p>			

Wednesday July 23: Conference Day 2

9:00am - 10:00am

Keynote Address: Brian P. Robinson
 Challenges in Adopting and Deploying Research Ideas into Industrial Teams

Location: Main Congress Hall (2nd Floor)

Session Chair: Bruce McMillin

Room	302	301	109	108
10:00-10:30	<i>Morning Break</i>			
10:30-12:00	Software Engineering II	Quality Assurance and Assessment II	Doctoral Symposium Mentoring Session	Network Traffic
12:00-13:30	<i>Lunch</i>			
13:30-15:00	Embedded Systems	Empirical Study	Security	Defect Prediction
15:00-15:30	<i>Afternoon Break</i>			
15:30-17:00	Plenary Panel: Security with Privacy – Opportunities and Challenges Location: Main Congress Hall (2nd Floor)			
18:00-23:30: Conference Banquet: Sättra Brunn, Sala				

Thursday July 24: Conference Day 3					
9:00-10:30	Plenary Panel: Convergence Panel Location: Main Congress Hall (2nd Floor)				
10:30-11:00	<i>Morning Break & Poster Sessions</i>				
11:00-12:00	Keynote Address: Dejan S. Milojicic Predicting Future Technologies - IEEE Computer Society 2022 Report Location: Main Congress Hall (2nd Floor) Session Chair: Tiberiu Secoleanu				
12:00-13:00	<i>Lunch</i>				
13:00-14:00	Keynote Address: Jan Bosch From Opinions to Facts: Building Products Customers Actually Use Location: Main Congress Hall (2nd Floor) Session Chair: Sahra Sedigh Sarvestani				
Room	302	301	109	108	
14:00-15:30	Network Appl. & config.	Web Technology	Virtual Machine	Emergent Topics	
15:30-16:00	<i>Afternoon Break & Poster Sessions</i>				
16:00-17:30	Network Performance	Social Networks	Fast Abstract	Industry Papers	
17:30-19:00	COMPSAC 2015 Planning Meeting, All are Welcome (Room 110)				

Friday July 25: Workshop Day					
Room	109	108	107	105	110
8:30-10:00	QUORS	CDS	WASCOM	SSERV	MVDA
10:00-10:30	Coffee Break				
10:30-12:00	QUORS	CDS	STA	SSERV	MVDA
12:00-13:30	Lunch				
13:30-15:00	QUORS	CDS	STA	SSERV	SSS-MediComp
15:00-15:30	Coffee Break				
15:30-17:00	QUORS		STA		SSS-MediComp
TRAVEL SAFELY! SEE YOU NEXT YEAR FOR COMPSAC 2015					

Conference Workshops

Monday July 21

IWSC (International Workshop on Software Cybernetics)

Location: Hörsalen (1st Floor)

8:30-9:45 *General Session*

Joint Workshop Session and Keynote Address

- **Keynote: Adaptive Management of Energy Packets**
Erol Gelenbe, Imperial College, London, UK

9:45-10:15 *Break*

Room 105

10:15-10:30 IWSC Opening Session

- **Welcome from IWSC General Chair**
Hongji Yang, Bath Spa University, UK
- **Remarks from Chair of Steering Committee**
Stephen S. Yau, Arizona State University, USA
- **Report from IWSC Program Co-chair**
Lin Liu, Tsinghua University, China

10:30-12:00 Adaptation and Evolution Techniques for Software Quality

Chair: Selmin Nurcan, University of Paris 1, France

- **Design of Intelligent Checkers to Enhance the Security and Safety of Cyber Physical Systems**
Giedre Sabaliauskaite, Aditya P. Mathur
- **Countermeasures to Enhance Cyber-Physical System Security and Safety**

Giedre Sabaliauskaite and Aditya P. Mathur

- **Controlling and Being Creative: Software Cybernetics and Creative Computing**

Hongji Yang and Lu Zhang

12:00-13:30 *Lunch*

13:30-15:00 Monitoring and Control for Software Systems and Testing

Chair Hongji Yang, Bath Spa University, UK

- **A Study on Migration Technique Using Program Slicing for Large-scale Information and Control Systems**

Tomoyuki Mochizuki, Akitoshi Shimura and Takayuki Takezawa

- **A History-based Dynamic Random Software Testing**

Lei Zhang, Bei-bei Yin, Junpeng Lv, Kai-Yuan Cai, Stephen S. Yau, Jia Yu

- **Dynamic Random Testing with Parameter Adjustment**

Zijiang Yang, Bei-bei Yin, Junpeng Lv and Kai-Yuan Cai, Stephen S. Yau, Jia Yu

15:00-15:30 *Break*

15:30-17:00 Panel: Controlling Software Systems in Big Data and Cloud Era

Chair: Stephen Yau, Arizona State University, USA

- Kai-yuan Cai, Beijing University of Aeronautics and Astronautics, China,
- Erol Gelenbe, Imperial College, London, UK,
- Lin Liu, Tsinghua University, China,
- Selmin Nurcan, University of Paris 1, France, and
- Hongji Yang, Bath Spa University, UK

17:00-17:40 *Planning of IWSC 2015*

Chair: Stephen Yau, Arizona State University, USA

ADMNET (International Workshop on Architecture, Design, Deployment, and Management of Networks and Applications)

Location: Room 109

10:30-12:00 Theory

Chair: Takashi Yamanoue, Kagoshima University, Japan

- **Fair Optimization - Methodological Foundations of Fairness in Network Resource Allocation (Invited talk)**
Wlodzimierz Ogryczak
- **Maxmin Fairness under Priority for Network Resource Allocation Tasks**
Mario Köeppen, Kei Ohnishi and Masato Tsuru

13:30-15:00 Network

Chair: Mario Köppen, Kyushu Institute of Technology, Japan

- **Modeling of Dynamic Trend of Latency Variations on Mobile Network using Markov Regime Switching**
Hiroshi Yamamoto, Chie Hidano, Shigehiro Ano, Katsuyuki Yamazaki
- **Toy Block Networking: Easily Deploying Diverse Network Functions in Programmable Networks**
Masaki Fukushima, Yoshiaki Yoshida, Atsushi Tagami, Shu Yamamoto, Akihiro Nakao
- **Bridging the Gap between Low-level Network Traffic Data Acquisition and Higher-level Frameworks**
Ruediger Gad, Martin Kappes, Inmaculada Medina-Bulo
- **A Mobility Management System for the Global Live Migration of Virtual Machine across Multiple Sites**
Tohru Kondo, Reiji Aibara, Kazufumi Suga, Kaori Maeda

15:30-17:00 Cloud and Security

Chair: Takashi Yamanoue, Kagoshima University, Japan

- **Implementation and Evaluation of Secure Outsourcing Scheme for Secret Sharing Scheme on Cloud Storage Services**
Toshihiro Ohigashi, and Kouji Nishimura and Reiji Aibara, Kouta Yoshida

- **Deploying OpenStack: Virtual Infrastructure or Dedicated Hardware**
Robayet Nasim, Andreas J. Kasser
- **A Technique to Assign an Appropriate Server to a Client, for a CDN Consists of Servers at the Global Internet and Hierarchical Private Networks**
Takashi Yamanoue, Yuuri Koarata, Kentaro Oda, and Koichi Shimozone

17:15-18:45 Management

Chair: Mario Köppen, Kyushu Institute of Technology, Japan

- **What about Tomorrow's Management of Software Development and Maintenance Processes** (Invited Talk)
Mira Mirosława Kajko-Mattsson
- **Computer Ethics Video Clips for University Students in Japan from 2003 until 2013**
Takashi Yamanoue, Izumi Fuse, Shigeto Okabe, Atsushi Nakamura, Michio Nakanishi, Shozo Fukada, Takehiro Tagawa, Tatsumi Takeo, Ikuya Murata, Tetsutaro Uehara, Tsuneo Yamada and Hiroshi Ueda

STPSA (International Workshop on Security, Trust, and Privacy for Software Applications)

Location: Room 107

10:15-10:30

- **Welcome from STPSA General Chair**

10:30-12:00 Security and Analysis

Chair: Sheikh Iqbal Ahamed, Marquette University, USA

- **Static Code Analysis for Software Security Verification: Problems and Approaches**
Zeineb Zhioua, Stuart Short, Yves Roudier
- **Security by Design for the Smart Grid: Combining the SGAM and NISTIR 7628**
Mathias Uslar, Christine Rosinger, Stefanie Schlegel

- **Introducing Code Assets of a New White-Box Security Modeling Language**
He Sun, Lin Liu, Letong Feng, Yuan Xiang Gu
- **A Security Oriented Design (SOD) Framework for eHealth Systems**
Weider D. Yu, Lavanya Davuluri, Monica Radhakrishnan, Maryam Runiassy

13:30-15:00 Cyber Security, Detection, and Modeling

Chair: Antonino Nocera, University of Reggio Calabria, Italy

- **Bayesian Model Averaging of Bayesian Network Classifiers for Intrusion Detection**
Liyuan Xiao, Yetian Chen and Carl K. Chang
- **DCAFE: A Distributed Cyber Security Automation Framework for Experiments**
George Rush, Daniel R. Tauritz, Alexander D. Kent
- **Quantification of Information Flow in a Smart Grid**
Li Feng, Bruce McMillin

15:30-17:00 Access Control, Privacy and Process

Chair: Daniel Tauritz, Missouri University of Science and Technology, USA

- **A Privacy-Preserving Solution for Tracking People in Critical Environments**
Francesco Buccafurri, Gianluca Lax, Serena Nicolazzo, Antonino Nocera
- **Access control model for the My Number national identification program in Japan**
Miyata Sumiko, Suzuki Kazuhiro, Morizumi Tetsuya, Kinoshita Hirotsugu
- **Improvement of The Integrity Verification Application using Timestamp Mechanism for Distributed File System**
Hidenobu Watanabe, Tsukasa Iwama, Ken. T. Murata, Shigenori Ushiyama, Yasushi Muto
- **Secret Key Steganography With Message Obfuscation By Pseudo-Random Number Generators**
Juan M. Gutiérrez-Cárdenas

MidArch (International Workshop on Middleware Architecture in the Internet)

Location: Room 110

13:30-15:00

Chair: Toyokazu Akiyama, Kyoto Sangyo University, Japan

- **Welcome Address**
Toyokazu Akiyama, Kyoto Sangyo University, Japan
Hideaki Goto, Tohoku University, Japan
- **Certificate-based, Disruption-tolerant Authentication System with Automatic CA Certificate Distribution for eduroam**
Hao Liu, Hideaki Goto
- **Centralized Online Sign-up and Client Certificate Issuing System for eduroam**
Tomo Niizuma, Hideaki Goto
- **Modeling the Cost Structure of Identity Proofing**
Masaki Shimaoka, Noboru Sonehara

15:30-17:00

Chair: Hideaki Goto, Tohoku University, Japan

- **Dripcast - server-less Java programing framework for billions of IoT devices**
Ikuo Nakagawa, Masahiro Hiji, Hiroshi Esaki
- **The Concept of a Mobility Data Cloud: Design, Implementation and Trials**
Nikolay Tcholtchev, Benjamin Dittwald, Thomas Scheel, Begüm İlke Zilci, Danilo Schmidt, Philipp Lämmel, Jurma Jacobsen and Ina Schieferdecker
- **Big Data in Memory: Benchmarking In Memory Database Using the Distributed Key-Value Store for Constructing a Large Scale Information Infrastructure**
Michiaki Iwazume, Takahiro Iwase, Koji Tanaka, Hideaki Fujii
- **An evaluation of adaptive traffic engineering for delivering high bandwidth movie on overlay routing network**
Hiroki Kashiwazaki, Yoshiaki Takai

WRMOCC (International Workshop on Risk Management of OSS Components and Communities)

Location: Room 103

10:30-10:40

Ron S. Kenett, KPA, Israel, University of Turin, Italy, and NYU Poly, USA

Welcome and report from program chairs

10:40-12:00

Keynote address

Chair: Ron S. Kenett, KPA, Israel, Univ. of Turin, Italy, and NYU Poly, USA

Codeface: Software = Technology + People (Opening and Keynotes)

Wolfgang Mauerer

13:30 – 15:00

Chair: Xiaoying Bai, Tsinghua University, China

- **Expert Mining for Evaluating Risk Indicators Scenarios**

Oscar Franco-Bedoya, Dolores Costal, Soraya Hidalgo, Ron Ben-Jacob

- **Building a Community: The Moodbile Perspective**

Nikolas Galanis, Maria José Casany, Marc Alier and Enric Mayol

- **Risk Measure Propagation through Organizational Network**

Luba Shabnam, Farzana Haque, Moshiur Bhuiyan, Aneesh Krishna

15:30-17:00

Chair: Oscar Franco-Bedoya, Universidad Politecnica de Cataluña, Spain

Group exercise: Conducting a tactical workshop for community analysis

SocNet (International Workshop on Social Networks, Smart Communities and Smart Devices)

Location: Room 101

10:30-12:00

Chair: Mihhail Matskin, Royal Institute of Technology, Sweden

- **The Application of Internet of Things in Social Network**
Yu Zhang and Jiangtao Wen, Fan Mo
- **Cross-domain Scientific Collaborations Prediction with Citation Information**
Ying Guo and Xi Chen
- **An Enterprise Social Recommendation System for Connecting Swedish Professionals**
Nima Dokoochaki, Mihhail Matskin, Usman Afzal and Md. Mustakimul Islam
- **How overlapping community structure affects epidemic spreading in complex networks**
Jiaxing Shang, Lianchen Liu, Feng Xie, Cheng Wu

UCDAS (International Workshop on User Centered Design and Adaptive Systems)

Location: Room 108

10:30-12:00

Chair: Reyes Juárez-Ramírez, Autonomous University of Baja California, Mexico

- **Automated Generation of User-Interface Prototypes based on Controlled Natural Language Description**
Reyes Juárez-Ramírez, Carlos Huertas, Sergio Inzunza
- **Exploiting Reinforcement Learning to Profile Users and Personalize Web Pages**
Stefano Ferretti, Silvia Mirri, Catia Prandi, Paola Salomoni
- **Physiological Mouse: Towards an Emotion-Aware Mouse**
Yujun Fu, Hong Va Leong, Grace Ngai, Michael Xuelin Huang, Stephen C.F. Chan
- **Towards a User Model for the Design of Adaptive Interfaces for Autistic Users**
Andrés Mejía-Figueroa, Reyes Juárez-Ramírez

13:30-15:00

Chair: Andrés Mejía Figueroa, Autonomous University of Baja California, Mexico

- **Text-Based CAPTCHA Using Phonemic Restoration Effect and Similar Sounds**
Misako Goto, Toru Shirato, Ryuya Uda
- **Improvement of Personal Identification by Flick Input with Acceleration Sensor**
Nozomi Takeuchi, Shuhei Kobata, Ryuya Uda
- **Designing Interpersonal Communication Software for the Abilities of Elderly Users**
Drew Williams and Sheikh Iqbal Ahamed, William Chu

BIoT (International Workshop on Big Data Management for the Internet of Things)

Location: Room 101

13:30-15:00

Chair: Hideya Ochiai, The University of Tokyo / NICT, Japan

- **Designing of a Network-Aware Cloud Robotic Sensor Observation Framework**
Fredrik Nordlund, Manabu Higashida, Yuuichi Teranishi, Shinji Shimojo, Masanori Yokoyama, Michio Shimomura
- **Managing Heterogeneous Sensor Data on a Big Data Platform: IoT Services for Data-intensive Science**
Sulayman K. Sowe, Takashi Kimata, Mianxiong Dong, Koji Zettsu
- **m-cloud - distributed statistical computation using multiple cloud computers**
Ikuo Nakagawa, Masahiro Hiji, Yutaka Kikuchi, Masahiro Fukumoto, Shinji Shimojo

15:30-17:00

Chair: Susumu Takeuchi, NTT Corporation, Japan

- **Facility Information Management on HBase: Large-Scale Storage for Time-Series Data**
Hideya Ochiai, Hiroyuki Ikegami, Yuuichi Teranishi, Hiroshi Esaki
- **Towards a User-Friendly Loading System for the Analysis of Big Data in the Internet of Things**
Marco Mesiti and Stefano Valtolina

- **Load-Adaptive Indexing Method for Schema-less Searches**

Yutaka Arakawa, Takayuki Nakamura, Motonori Nakamura, Nobuhiko Matsuura, Yuusuke Kawakita and Haruhisa Ichikawa

CFSE (International Workshop on Computer Forensics in Software Engineering)

Location: Room 110

10:30-12:00

Chair: Ryoichi Sasaki, Tokyo Denki University, Japan

- **Digital Fingerprinting on Executable File for Tracking Illegal Uploaders**
Masayuki Tsubouchi, Tomotaka Maeda and Yasuo Okabe
- **An Evaluation of Side-Information Assisted Forensic Hash Matching**
Johan Garcia
- **Evolving Decision Trees for the Categorization of Software**
Jasenko Husic, Daniel R. Tauritz, Samuel A. Mulder
- **Proposal and evaluation of safe and efficient log signature scheme for the preservation of evidence**
Naoki Kobayashi, Ryoichi Sasaki

ESAS (International Workshop on Engineering Semantic Agents - Semantics, Agents and Intelligence)

Location: Room 108

15:30-17:30

Chair: Atilla Elçi, Aksaray University, Turkey

- **A Safety Food Consumption Mobile System through Semantic Web Technology**
Duygu Çelik, Atilla Elçi, Rıdvan Akçiçek, Bora Gökçe, Pelin Hürçan
- **Mobile Pediatric Consultation and Monitoring System through Semantic Web Technology**
Duygu Çelik, Atilla Elçi, Rıdvan Akçiçek, Bora Gökçe, Pelin Hürçan
- **Using the Semantics Inherent in Sitemaps to Learn Ontologies**

Abdulelah A. Algosaibi and Austin C. Melton, Jr.

- **Round Table and Conclusion**

CORCS-IEESD (Joint International Workshop on Component-Based Design of Resource-Constrained Systems, and Industrial Experience in Embedded Systems Design)

Location: Room 106

13:30-15:00

Chair: Cristina Seceleanu, Mälardalen University, Sweden

- **Synthesis of Pareto Efficient Technical Architectures for Multi-Core Systems**
Sergey Zverlov, Sebastian Voss
- **Towards Context-oriented Self-adaptation in Resource-constrained Cyberphysical Systems**
Mikhail Afanasov, Luca Mottola, Carlo Ghezzi
- **Towards a Common Software-to-hardware Allocation Framework for the Heterogeneous High Performance Computing**
Zdravko Krpić, Ivica Crnković, Jan Carlson

15:30-17:00

Chair: Detlef Streitferdt, Technical University of Ilmenau, Germany

- **Identifying Evolution Problems for Large Long Term Industrial Evolution Systems**
Daniel Hallmans, Marcus Jägemar, Stig Larsson, Thomas Nolte
- **Variable factors of influence in product line development**
Franz Felix Fuessl, Jirka Ciemala

SAPSE (International Workshop on Security Aspects of Process and Services Engineering)

Location: Room 106

10:30-12:00

Chair: Stelvio Cimato, Universita delgi Sudi di Milano, Italy

- **The Problem of Handling Multiple Headers in WS-Security Implementations**
Ernesto Damiani, Valerio Coviello, Fulvio Frati, Claudio Santacesaria
- **A Socio-Technical Methodology for the Security and Privacy Analysis of Services**
Giampaolo Bella, Paul Curzon, Rosario Giustolisi, Gabriele Lenzini
- **I Was Confused: Robust Accountability for Permission Delegation in Cloud Federations**
Samane Abdi
- **Integration of Heterogeneous Policies for Trust Management**
Samane Abdi

Friday July 25

SSERV (International Workshop on Social Services through Human and Artificial Agent Models)

Location: Room 105

8:30-10:00

Chair: Hiroshi Takahashi, Keio University, Japan

- **Social Services with Human and Artificial Agents** (Opening Remarks)
Takao Terano
- **What is the impact of heterogeneous knowledge about fundamentals on market liquidity and efficiency : an ABM approach**
Vivien Lespagnol, Juliette Rouchier
- **A Study on Filtering of the Effect Range with the Package Insert of the Medicine**
Takashi Ikoma, Masakazu Takahashi, Kazuhiko Tsuda

10:30-12:00

Chair: Setsuya Kurahashi, University of Tsukuba, Japan

- **Learning Agents for Human Complex Systems**
Iris Lorscheid
- **Heuristics for Designing and Evaluating Socio-Technical Agent-Oriented Behaviour Models with Coloured Petri Nets**
Msury Mahunnah, Alex Norta, Lixin Ma, Kuldar Taveter
- **Analyzing the role of noise trader in financial markets through agent-based modeling**
Hiroshi Takahashi

13:30-15:00

Chair: Iris Lorscheid, Hamburg University of Technology, Germany

- **Emergence of Fashion Cycle by Agent-Based Model of WoM Dissemination**
Takashi Yoshida, Setsuya Kurahashi
- **Chartists and fundamentalists in an agent based herding model**

Souhir Masmoudi

- **Heterogeneity in Lowest Unique Integer Game**
Takashi Yamada, Nobuyuki Hanaki

QUORS (International Workshop on Quality Oriented Reuse of Software)

Location: Room 109

8:30-10:00 Software Evolution

Chair: Hongji Yang, Bath Spa University, UK

- **A Multi-Dimensional Component Importance Analysis Mechanism For Component Based Systems**
Xin Zhang
- **A SysML Based Requirement Modeling Automatic Transformation Approach**
Chih-Hung Chang, Chih-Wei Lu, Wen Pin Yang, William Cheng-Chung Chu, Pao-Ann Hsiung
- **Analyzing Artifact Anomalies in a Temporal Structural Workflow for SBS**
Fengjian Wang

10:30-12:00 Software Reuse

Chair: Xiaodong Liu, Edinburgh Napier University, UK

- **A Framework of Patterns Applicability in Software Development**
Hossam Hakeem, Hui Guan, Hongji Yang
- **Reverse Engineering Web Applications for Security Mechanism Enhancement**
Hui Guan, Hongji Yang, Hossam Hakeem
- **Comparing Reuse Strategies: An Empirical Evaluation of Developer Views**
Julia Varnell-Sarjeant, Anneliese Amschler Andrews, Andreas Stefik
- **Modelling a Safety- and Automotive-oriented Process Line to Enable Reuse and Flexible Process Derivation**
Barbara Gallina and Shaghayegh Kashiyarandi, Helmut Martin and Robert Bramberger

13:30-15:00 Cloud and Service Computing

Chair: Hongji Yang, Bath Spa University, UK

- **Critical evaluation on jClouds and Cloudify abstract APIs against EC2, Azure and HP-Cloud**
Steven Thomas Graham, Xiaodong Liu
- **Institution Theory for Services Oriented Applications**
Amine Achouri, Yousra Bendaly Hlaoui and Leila Jemni Ben ayed

15:30-17:00 Model-Driven Quality and Testing

Chair: Xiaodong Liu, Edinburgh Napier University, UK

- **Towards Feature-Oriented Fault Tree Analysis**
Benjamin Behringer, Martina Lehser and Steffen Rothkugel
- **Integrating the Modelica DSL into a Platform for Model-based Tool Interoperability**
Nikolay Tcholtchev, Grit Dudeck, Michael Wagner, Christian Hein, Arun Prakash and Tom Ritter
- **Requirements Model Oriented System Generation Tool and Its Practical Evaluation**
Shinobu Saito, Jun Hagiwara, Tomoki Yagasaki, Katsuyuki Natsukawa
- **Using TTCN-3 to Test SPDY Protocol Interaction Property**
Sumei Zhang, Li Hua, Yu Xue, Xiangrong Wang

CDS (International Workshop on Consumer Devices and Systems)

Location: Room 108

8:30-10:00

Chair: Toru Kobayashi, Nagasaki University, Japan

- **A Hazard Detection Method for Bicycles by using Probe Bicycle**
Shigeo Kaneda, Shohei Asada, Akira Yamamoto, Yuta Kawachi and Yusuke Tabata

- **An Ironing Support System with Superimposed Information for Beginners**
Kimie Suzuki, Kaori Fujinami
- **A Hybrid Device Profile Detection Method and Its Applications**
Naofumi Yoshida, Naoki Ishibashi, Norihiro Ishikawa
- **A Study of on-Vehicle Informatgion Devices Using a Smartphone**
Takatomo Yamabe, Ryozo Kiyohara

10:30-12:00

Chair: Ryozo Kiyohara, Kanagawa Institute of Technology, Japan

- **An API Design Process in terms of usability**
Sunghoon Lee, Sanghee Lee, Sumi Lim, Jiyoung Jung, Sangho Choi, Neunghoe Kim and Jung-Been Lee
- **Design and Implementation of Event Information Summarization System**
Chenyi Liao, Katsuhiko Kaji, Kei Hiroi, Nobuo Kawaguchi
- **Metadata for Energy Disaggregation**
Jack Kelly and William Knottenbelt

13:30-15:00

Chair: Yasuo Okabe, Kyoto University, Japan

- **Customizable Web-based system to federate smart devices and peripherals**
Hidenobu Ito, Kazuaki Nimura
- **A Power Allocation Management System Using an Algorithm for the Knapsack Problem**
Naoyuki Morimoto, Yuu Fujita, Masaaki Yoshida, Hiroyuki Yoshimizu, Masafumi Takiyamada, Terukazu Akehi, Masami Tanaka
- **A Rapid Prototyping Approach for Smart Energy Systems based on Partial System Models**
Georg Hackenberg, Maximilian Irlbeck and Vasileios Koutsoumpas, Denis Bytschkow

WASCOM (International Workshop on Adaptive Systems for Communication Networks)

Location: Room 107

8:30-10:00

Chair: Nicolas Larrieu, French Civil Aviation University, France

- **Dynamic adaptive management of buffer for QOS guarantees and energy reduction**
Wael Zouaoui, Carolina Albea Sanchez, Yann Labit
- **Profile-based scalable video adaptation employing MD-FEC interleaving over loss-burst channels**
Sheau-Ru Tong, Huan-Wen Chen and Cheng-Han Yang
- **An adaptive XACMLv3 policy enforcement point**
Romain Laborde, Bashar Kabbani, François Barrère, Abdelmalek Benzekri

STA (International Workshop on Software Test Automation)

Location: Room 107

10:30-12:00 Instrumentation, Automation and Applications

Chair: Rajesh Subramanyan, Siemens USA

- **Testing Java Exceptions: an instrumentation technique**
Alexandre L. Martins, Simone Hanazumi, Ana C. V. de Melo
- **Automated Generation of Integration Test Sequences from Logical Contracts**
Dianxiang Xu, Weifeng Xu, Michael Tu
- **Risk Based Testing of Open Source Software (OSS)**
Inbal Yahav, Ron S. Kenett and Xiaoying Bai

13:30-15:00 Model-based testing - Improving and Extending

Chair: Rajesh Subramanyan, Siemens USA

- **Automated Model-based Performance Testing for PaaS Cloud Services**
Junzan Zhou, Bo Zhou, Shanping Li
- **A Structured Model of Consistency Rules in After-State Database Testing**
Robert Setiadi, Man Fai Lau
- **Improving Models for Model-based Testing based on Exploratory Testing**
Ceren Şahin Gebizli, Hasan Sözer

SSS-MediComp (Joint International Workshop on Service Science and Systems, and Medical Computing)

Location: Room 110

8:30-10:00

Chair: Ji-Jiang Yang, Tsinghua University, China

- **Noninvasive Ambulatory Monitoring of the Electric and Mechanical Function of Heart with a Multifunction Wearable Sensor**
Xianxiang Chen, Xinyu Hu, Ren Ren, Bin Zhou, Xiao Tan, Jiabai Xie, Zhen Fang, Yangmin Qian, Huaiyong Li, Lili Tian, Shanhong Xia
- **Current Electronic Medical Record in China**
Chen Shi, Liu Hui-Ting, Pan Hui, Ji-Jiang Yang, Jianqiang Li, Qing Wang
- **A ZigBee based multi-hop health monitoring system: design and performance evaluation**
F.M.Sun, Z. Fang, Z. Zhao, L.D.Du, Z.H.Xu, D.L.Chen, Y.M.Qian, H.Y.Hui, L.L.Tian
- **Using knowledge management and mhealth in high-risk pregnancy care: a case for the floating population in China**
Ben-Da Gu, Ji-Jiang Yang, Jian-Qiang Li, Qing Wang, Yu Niu

10:30-12:00

Chair: Yang Li, British Telecom, UK

- **A practical and automated approach for engineering service-oriented applications with design patterns**
Patrizia Scandurra, Steven Capelli
- **Measuring Prediction Sensitivity of a Cloud Auto-scaling System**

Ali Yadavar Nikravesh, Samuel Ajila, Chung-Horng Lung

- **Towards an Ontology-based Context-aware Meta-model for the Software Domain**
Mostafa Erfani, Juergen Rilling, Iman Keivanloo
- **Accountability in a Context-aware Smarthome Healthcare Reasoning System**
Bingchuan Yuan, John Herbert

MVDA (International Workshop on Modeling and Verifying Distributed Applications)

Location: Room 110

8:30-10:00

- **Chair: Leila Jemni Ben Ayed, University of Tunis, Tunisia**
A Load Distribution Method Based on Distributed Hashing for P2P Sensor Data Stream Delivery System
Tomoya Kawakami, Yoshimasa Ishi, Tomoki Yoshihisa and Yuuichi Teranishi
- **A Calculus for Transportation Systems**
Moonkun Lee, Jungrhan Choi
- **Towards an Institutional Representation For The B Model Oriented Specification**
Amine Achouri, Yousra Bendaly Hlaoui and Leila Jemni Ben ayed

10:30-12:00

Chair: Ahlem Ben Younes, University of Tunis, Tunisia

- **A Formal Modeling on Exceptions for Context-Aware Systems**
Tae-Seob Yoon, Joong-Hyun Choi, Eun-Sun Cho, Sumi Helal
- **MuScADeL: a Deployment DSL based on a Multiscale Characterization Framework**
Raja Boujbel, Sam Rottenberg, Sébastien Leriche, Chantal Taconet, Jean-Paul Arcangeli and Claire Lecocq
- **A Meta-Model Transformation from UML Activity Diagrams to Event-B Models**
Ahlem Ben Younes, Yousra Bendaly Hlaoui, Leila Jemni Ben Ayed

Main Conference

Tuesday July 22, 2014

8:30-9:00 **Opening Session**

Location: Main Congress Hall (2nd Floor)

Session Chair: John Walz, IEEE Computer Society

9:00-10:00 **Keynote Address**

Location: Main Congress Hall (2nd Floor)

Programming Liberated: Playing and Talking Behavioral Scenarios

David Harel, Weizmann Institute, Israel

10:00-10:30 **Morning Break**

10:30-12:00

Plenary Panel: Computing Education in 2050

Location: Main Congress Hall (2nd Floor)

Moderator: Stephen B. Seidman, Texas State University, USA and Arnold Pears, Uppsala University, Sweden

Panelists: Claudio Demartini, Politecnico di Torino, Italy

David Harel, Weizmann Institute, Israel

Sorel Reisman, California State University at Fullerton, USA, and

Siegfried Rouvrais, Télécom Bretagne, France

12:00-13:30 **Lunch**

13:30-15:00 **Parallel Sessions**

Software Engineering I

Chair: Séverine Sentilles, Mälardalen University, Sweden

Location: Room 302

- **The Issues of Solving Staffing and Scheduling Problems in Software Development Projects**
Daniela C. C. Peixoto, Geraldo R. Mateus, Rodolfo F. Resende
- **Randomized Model Generation for Performance Testing of Model Transformations**
He Xiao, Zhang Tian, Ma Zhiyi, Shao Weizhong
- **Optimizing Non-orthogonal Space Distance using PSO in Software Cost Estimation**
Qin Liu, Xiaoyuan Chu, Jiakai Xiao, Hongming Zhu
- **A Mutual Information-Based Hybrid Feature Selection Method for Software Cost Estimation Using Feature Clustering**
Qin Liu, Shihai Shi, Hongming Zhu, Jiakai Xiao

Automated Analysis in Software Engineering

Chair: Gang Huang, Peking University, China

Location: Room 301

- **PF-Miner: A new paired functions mining method for Android kernel in error paths***
Huqiu Liu, Yuping Wang, Lingbo Jiang, Shimin Hu
- **A Feature-Driven Crossover Operator for Product Line Architecture Design Optimization***
Thelma Elita Colanzi, Silvia Regina Vergilio
- **BuildPredictor: More Accurate Missed Dependency Prediction in Build Configuration Files**
Bo Zhou, Xin Xia, David Lo and Xinyu Wang
- **A Pattern-Based Approach for Automatic Business Process Specialization**
Abderrahmane Leshob, Hafedh Mili and Anis Boubaker

Validation & Verification

Chair: Carl K. Chang, Iowa State University, USA

Location: Room 109

- **GUIDiVa: Automated Discovery and Validation of State-based GUI Invariants ***
Ali Darvish, Carl K. Chang
- **A Runtime Verification Framework for Control System Simulation***
Selim Ciraci, Jason C. Fuller, Jeff Daily, Atefe Makhmalbaf, David Callahan
- **Towards Model-and-Code Consistency Checking**
Markus Riedl-Ehrenleitner, Andreas Demuth, Alexander Egyed
- **Tackling Incomplete System Specifications Using Natural Deduction in the Paracomplete Setting**
Alexander Bolotov, Vasilyi Shangin

Bug Reports

Chair: Barbara Gallina, Mälardalen University, Sweden

Location: Room 108

- **Towards Semi-automatic Bug Triage and Severity Prediction Based on Topic Model and Multi-Feature of Bug Reports***
Geunseok Yang, Tao Zhang, Byungjeong Lee
- **Automated Configuration Bug Report Prediction Using Text Mining***
Xin Xia, David Lo, Weiwei Qiu, Xingen Wang and Bo Zhou
- **An Improved Discriminative Model for Duplication Detection on Bug Reports with Cluster Weighting**
Meng-Jie Lin and Cheng-Zen Yang
- **Faceted Bug Report Search with Topic Model**
Kaiping Liu, Hee Beng Kuan Tan

15:00-15:30 **Afternoon Break**

15:30-17:00 **Parallel Sessions**

Service & Application

Chair: Behrooz Shirazi, Washington State University, USA

Location: Room 302

- **Towards Uniform Management of Cloud Services by applying Model-Driven Development***
Toni Mastelić, Ivona Brandić, Andrés García García
- **An SLA-Driven Cache Optimization Approach for Multi-tenant Applications on PaaS***
Huihong He, Zhiyi Ma, Hongjie Chen, Dan Wu, Huanhuan Liu, Weizhong Shao
- **FSaaS: File System as a Service**
Dapeng Dong and John Herbert
- **Modelling Variability in Activity Diagrams for Mobile Business Applications**
Viktor Kolokolov, Stefan T. Rueh, Paul Baumann, Shaozhen Zhang and Stephan A. W. Verclas

Quality Assurance and Assessment I

Chair: Sahra Sedigh Sarvestani, Missouri University of Science and Technology, USA

Location: Room 301

- **Extending the Theoretical Fault Localization Effectiveness Hierarchy with Empirical Results at Different Code Abstraction Levels***
Chung Man Tang, W. K. Chan, Y. T. Yu
- **Adoption of Free Libre Open Source Software (FLOSS): A Risk Management Perspective***
Ron S. Kenett, Xavier Franch, Angelo Susi and Nikolas Galanis
- **Quantifying the Characteristics of Java Programs that May Influence Symbolic Execution from a Test Data Generation Perspective***
Marcelo M. Eler, Andre T. Endo and Vinicius H. S. Durelli

Spec & Requirements

Chair: Cristina Seceleanu, Mälardalen University, Sweden

Location: Room 109

- **Eliciting Relations From Natural Language Requirements Documents Based on Linguistic and Statistical Analysis***
Lin Liu, Tianying Li, Xiaoxi Kou
- **Counterexample-guided Abstraction Refinement for Component-based Systems***

Lianyi Zhang, Qingdi Meng, Guiming Luo

- **A Formal Representation of Platform Feature-to- Requirement Traceability for Software Product Line Development***

Sungwon Kang, Jingyu Kim, Sungju Kang and Seokhwan Eom

18:30-21:30 **Reception**

Wednesday July 23, 2014

Session Chair: Bruce McMillin, Missouri University of Science and Technology, USA

Location: Main Congress Hall (2nd Floor)

9:00-10:00 **Keynote Address**

Challenges in Adopting and Deploying Research Ideas into Industrial Teams

Brian P. Robinson: ABB

10:00-10:30 **Morning Break**

10:30-12:00 **Parallel Sessions**

Software Engineering II

Chair: Feng-Jian Wang, National Chiao-Tung University, Taiwan

Location: Room 302

- **Dynamic Slicing of Python Programs***
Zhifei Chen, Lin Chen, Yuming Zhou, Zhaogui Xu, William C. Chu, Baowen Xu
- **Efficient Caching and Incrementalization of Object Queries on Collections in Programming Codes***
Venkata Krishna Suhas Nerella, Sanjay Madria, Thomas Weigert
- **Trimming Test Suites with Coincidentally Correct Test Cases for Enhancing Fault Localizations**
Xiaozhen Xue, Yulei Pang, Akbar Siami Namin
- **Motivating by examples: An empirical study of teaching an introductory software engineering course in Brazil**
Rasha Osman, Arilo C. Dias-Neto

Quality Assurance and Assessment II

Chair: Bruce McMillin, Missouri University of Science and Technology, USA

Location: Room 301

- **VertexRank: Importance Rank for Software Network Vertices***

Huan Luo, Yuan Dong, Yiyang Ng and Shengyuan Wang

- **Design and Safety Analysis for System Architecture: A Breeze/ADL-based Approach**
Luxi Chen, Linpeng Huang, Chen Li, Linzhu Wu and Weichao Luo
- **Transformation from Activity Diagrams with Time Properties to Timed Coloured Petri Nets**
Xuling Chang, Linpeng Huang, Jianpeng Hu, Chen Li and Bei Cao
- **Understanding and Measuring Nesting**
Hend Alrasheed and Austin Melton

Network Traffic

Chair: Dianxiang Xu, Boise State University, USA

Location: Room 108

- **Optimizing the Power Consumption of Mobile Networks based on Traffic Prediction***
Safaa Dawoud, Abdulbaki Uzun, Sebastian Göndör, Axel Küpper
- **Power Saving Mechanism for IEEE 802.11 Clients in Multicast Multimedia Streaming Network***
Yuta Morisawa, Yoshihiro Kawahara, Tohru Asami
- **How to generate realistic network traffic?**
Antoine Varet and Nicolas Larrieu
- **Development of a Secure Traffic Analysis System to Trace Malicious Activities on Internal Networks**
Soshi Hirono, Yukiko Yamaguchi, Hajime Shimada and Hiroki Takakura

Doctoral Symposium Mentoring Session

Chairs: Michiharu Takemoto, NTT, Japan & Detlef Streitferdt, Technical University of Ilmenau, Germany

Location: Room 109

- **Performance Preservation using Servers for Predictable Execution and Integration**
Rafia Inam
- **Exploratory Performance Analysis of Microbot Swarm in Three-Dimensional Field**

Shota Agemura and Hiroyuki Ohsaki

- **A Distributed Flow Control with Backward Propagation: Algorithm and Preliminary Performance Evaluation**
Kohei Tsutsumi, Hiroyuki Ohsaki and Hideaki Suzuki
- **A model for distributed agile release planning**
Ingo Richter, Robert Lindermeier and Michael Weber
- **Media supported workspaces in agile software development**
Florian Raith, Robert Lindermeier

12:00-13:30 **Lunch**

13:30-15:00 **Parallel Sessions**

Embedded Systems

Chair: Tiberiu Seceleanu, ABB Corporate Research, Sweden

Location: Room 302

- **A Distributed Topic-based Pub/Sub Method for Exhaust Data Streams Towards Scalable Event-driven Systems***
Ryohei Banno, Susumu Takeuchi, Michiharu Takemoto, Tetsuo Kawano, Takashi Kambayashi and Masato Matsuo
- **Integrated Modular Avionics (IMA) Partition Scheduling with Conflict-Free I/O for Multicore Avionics Systems***
Jung-Eun Kim, Man-Ki Yoon, Richard Bradford and Lui Sha
- **Time-sensitive adaptation in CPS through run-time configuration generation and verification**
Marisol García-Valls, Diego Perez-Palacin, Raffaella Mirandola
- **Liquid Software Manifesto: The Era of Multiple Device Ownership and Its Implications for Software Architecture**
Antero Taivalsaari, Tommi Mikkonen and Kari Systä

Empirical Study

Chair: Xiaodong Liu, Edinburgh Napier University, UK

Location: Room 301

- **Exploring Blueprints on the Prioritization of Architecturally Relevant Code Anomalies: A Controlled Experiment***
Everton Guimaraes, Alessandro Garcia, Yuanfang Cai
- **Empirically Based Evolution of a Variability Management Approach at UML Class Level***
Anderson Marcolino, Edson Oliveirajr, Itana Gimenes, Ellen F. Barbosa
- **Instability and Abstractness Metrics Based on Responsibility***
Saleh Almugrin, Waleed Albattah, Omar Alaql, Musaad Alzahrani, Austin Melton

Security

Chair: Mohammad Zulkernine, Queen's University, Canada

Location: Room 109

- **Your Phone Knows You: Almost Transparent Authentication for Smartphones***
Mohammad Tanviruzzaman, Sheikh Iqbal Ahamed
- **A forensic analysis of Android Malware - How is Malware Written and How it Could be Detected?***
Kevin Allix, Quentin Jerome, Tegawendé F. Bissyandé, Jacques Klein, Radu State and Yves Le Traon
- **Auditing Buffer Overflow Vulnerabilities using Hybrid Static-Dynamic Analysis**
Bindu Madhavi Padmanabhuni and Hee Beng Kuan Tan
- **A Countermeasure Recommendation System against Targeted Attacks with Preserving Continuity of Internal Networks**
Hirokazu Hasegawa, Yukiko Yamaguchi, Hajime Shimada and Hiroki Takakura

Defect Prediction

Chair: Hiroyuki Sato, The University of Tokyo, Japan

Location: Room 108

- **A Scenario-Based Approach to Predicting Software Defects Using Compressed C4.5 Model***
Biwen Li, Beijun Shen, Jun Wang, Yuting Chen, Tao Zhang, Jinshuang Wang
- **A Semi-Supervised Approach to Software Defect Prediction***
Huihua Lu, Bojan Cukic, Mark Culp

- **FECAR: A Feature Selection Framework for Software Defect Prediction***
Shulong Liu, Xiang Chen, Wangshu Liu, Jiaqiang Chen, Qing Gu, Daoxu Chen

15:00-15:30 **Afternoon Break**

15:30-17:00

Plenary Panel: Security with Privacy - Opportunities and Challenges

Location: Main Congress Hall (2nd Floor)

Moderator: Elisa Bertino, Purdue University, USA

Panelists: Johann Åkerberg, ABB CRC, Sweden
Iqbal Ahamed, Marquette University, USA
Bruce McMillin, Missouri University of Science and Technology, USA
Mohammad Zulkernine, Queen's University, Canada

18:00-23:30 **Conference Banquet**

Thursday July 24, 2014

9:00-10:30

Plenary Panel: Convergence Panel

Location: Main Congress Hall (2nd Floor)

Moderator: Steve Diamond (moderator), IEEE Cloud Computing Initiative, EMC Corporation, USA

Panelists: Bruce McMillin: SmartGrid, Missouri University of Science and Technology, USA
Dana Petcu: Security in Multi-Clouds, West University of Timisoara, Romania
Atam Dhawan: Life Sciences, New Jersey Institute of Technology, USA
Charles Despins: Sustainable IT, Prompt, Canada,
Dejan Milojicic: Cybersecurity, and Rebooting Computing, HP Labs, USA

10:30-11:00 **Morning Break**

11:00-12:00 Keynote address

Session Chair: Tiberiu Seceleanu, ABB Corporate Research, Sweden

Location: Main Congress Hall (2nd Floor)

Predicting Future Technologies - IEEE Computer Society 2022 Report

Dejan S. Milojicic: President, IEEE Computer Society, HP Labs, USA

12:00-13:00 **Lunch**

13:00-14:00 **Keynote Address**

Session Chair: Sahra Sedigh Sarvestani, Missouri University of Science and Technology, USA

Location: Main Congress Hall (2nd Floor)

From Opinions to Facts: Building Products Customers Actually Use

Jan Bosch: Chalmers University of Technology, Sweden

14:00-15:30 **Parallel Sessions**

Network Application and configuration

Chair: Motonori Nakamura, NII, Japan

Location: Room 302

- **A Low Cost Hierarchy-Awareness Extension of Skip Graph for World-Wide Range Retrievals***
Xun Shao, Masahiro Jibiki, Yuuichi Teranishi and Nozomu Nishinaga
- **SIROM³ - A Scalable Intelligent ROaming Multi-Modal Multi-Sensor Framework***
Jiaxing Zhang, Hanjiao Qiu, Salar Shahini Shamsabadi, Ralf Birken, Gunar Schirner

Web Technology

Chair: Juergen Rilling, Concordia University, Canada

Location: Room 301

- **An Online Education Approach Using Web Operation Record and Replay Techniques***
Yanchun Sun, Dejian Chen, Wenpin Jiao, Gang Huang
- **JavaScript: The Used Parts***
Sharath Gude and Munawar Hafiz, Allen Wirfs-Brock
- **Towards an Open Architecture Model for Web and Mobile Software: Characteristics and Validity Properties***
Bahtijar Vogel, Arianit Kurti, Tommi Mikkonen and Marcelo Milrad

Virtual Machine

Chair: Ivica Crnkovic, Mälardalen University, Sweden

Location: Room 109

- **Transpacific Live Migration with Wide Area Distributed Storage***
Ikuo Nakagawa, Kohei Ichikawa, Toru Kondo, Yoshiaki Kitaguchi, Hiroki Kashiwazaki and Shinji Shimojo
- **CrowdAdaptor: a Crowdsourcing Approach Toward Adaptive Energy-Efficient Configurations of Virtual Machines Hosting Mobile Applications***
Edward Y. Y. Kan, W.K. Chan and T.H. Tse
- **A lightweight virtual machine image deduplication backup approach in cloud environment**
Jiwei Xu, Wenbo Zhang, Shiyang Ye, Jun Wei, and Tao Huang

Emergent Topics

Chair: Atilla Elci, Aksaray University, Turkey

Location: Room 108

- **Which Android App Store can be trusted in China?***
Yi Ying Ng, Hucheng Zhou, Zhiyuan Ji, Huan Luo, Yuan Dong
- **Specific Touch Gesture on Mobile Devices to Find Attractive Phrases in News Browsing***

Shohe Ito, Takuya Yoshida, Fumiko Harada, Hiromitsu Shimakawa

- **Analysis of Reliability and Resilience for Smart Grids**
Murtadha N. Albasrawi, Nathan Jarus, Kamlesh A. Joshi, and Sahra Sedigh Sarvestani
- **Generating accessible multimodal user interfaces using MDA-based adaptation approach**
Lamia Zouhaier, Yousra Bendaly Hlaoui and Leila Jemni Ben Ayed

15:30-16:00 **Afternoon Break**

16:00-17:30 **Parallel Sessions**

Network Performance

Chair: Kenichi Yoshida, University of Tsukuba, Japan

Location: 302

- **Performance Evaluation of Reconfigurable TCP Communication on Wi-Fi Network Using GE Channel Model***
Naoki Oguchi, Shunji Abe
- **Performance Improvement of SCTP Communication Using Selective Bicasting on Lossy Multihoming Environment***
Koki Okamoto, Nariyoshi Yamai, Kiyohiko Okayama, Keita Kawano, Motonori Nakamura, Tokumi Yokohira
- **Adaptive Online Feedback Controlled Message Compression***
Marcus Jägemar, Sigrid Eldh, Andreas Ermedahl, Björn Lisper

Social Networks

Chair: Yasuo Okabe, Kyoto University, Japan

Location: 301

- **Emergence of Fractals in Social Networks: Analysis of Community Structure and Interaction Locality***
Sho Tsugawa, Hiroyuki Ohsaki
- **Homesick Lévy walk: A mobility model having Ichi-go Ichi-e and scale-free properties of human encounters***
Akihiro Fujihara and Hiroyoshi Miwa

- **Preserving Location-related Privacy Collaboratively in Geo-Social Networks**
Lin Zhang, Mingxuan Yuan, Yao Guo, Xiangqun Chen and Lei Chen
- **SPTP: A Trust Management Protocol for Online and Ubiquitous Systems**
Ivor D. Addo, Ji-Jiang Yang, Sheikh I. Ahamed

Fast Abstract

Chair: Sheikh Iqbal Ahamed, Marquette University, USA

Location: Room 109

- **Towards Test Architecture based Software Product Line Testing**
Jihyun Lee, Sungwon Kang
- **Comparing Control Flow Graphs of Binary Programs through Match Propagation**
Hyun-il Lim
- **Behavioral Anomaly Detection System on Network Application Traffic from Many Sensors**
Akira Nagata, Kohei Kotera, Katsuichi Nakamura, Yoshiaki Hori
- **Improve User's Security Literacy by Experiencing Behavior of Pseudo Android Malware**
Makoto Kato, Saeko Matsuura
- **Predicting Release Time Based on Generalized Software Reliability Model (GSRM)**
Kiyoshi Honda, Hironori Washizaki, Yoshiaki Fukazawa

Industry Papers

Chair: Gaetana Sapienza, Mälardalen University, Sweden

Location: Room 108

- **Experiences Integrating Heterogeneous Government Open Data Sources to Deliver Services and Promote Transparency in Brazil**
Kellyton Dos Santos Brito, Marcos Antônio Silva Costa, Vinicius Cardoso Garcia, Silvio Romero de Lemos Meira
- **Operation Support System based on Augmented Reality Technology**
Tatsuya Osawa, Jun Shimamura and Yukinobu Taniguchi

- **On Architecture for QoS-Aware Packet Aggregation**
Tomoaki Umeki and Yoshinori Kitatsuji
- **Software-as-a-Service Solution Implementation - Data Migration Perspective**
Luba Shabnam, Farzana Haque, Moshiur Bhuiyan, Aneesh Krishna

Doctoral Symposium and Posters

Location: Room 107

- **Performance Preservation using Servers for Predictable Execution and Integration**
Rafia Inam
- **Exploratory Performance Analysis of Microbot Swarm in Three-Dimensional Field**
Shota Agemura and Hiroyuki Ohsaki
- **A Distributed Flow Control with Backward Propagation: Algorithm and Preliminary Performance Evaluation**
Kohei Tsutsumi, Hiroyuki Ohsaki and Hideaki Suzuki
- **A model for distributed agile release planning**
Ingo Richter, Robert Lindermeier and Michael Weber
- **Media supported workspaces in agile software development**
Florian Raith, Robert Lindermeier
- **SMoCoR: a Smart Mobile Contact Recommender Based on Smart Phone Data**
Xiwei Zhuang, Yanchun Sun, Kui Wei
- **Thermodynamics-based Entropy Adjustment for Robust Self-organized Network Controls**
Takuya Iwai, Daichi Kominami, Masayuki Murata, and Tetsuya Yomo
- **Expiration Timer Control Method for QoS-aware Packet Chunking**
Hiroki Yanaga, Daiki Nobayashi, Takeshi Ikenaga
- **A Taxonomy for SLA-based Monitoring of Cloud Security**
Dana Petcu
- **A QoS-oriented Inter-Cloud Federation Framework**

Maria Salama, Ahmed Shawish

- **Information Orchestration System for Closing the Information Retrieval Capability Gap**
Toru Kobayashi
- **Cider: An Event-driven Continuous Integration Server**
Ondřej Kupka, Filip Zavoral

Cloud Congress

Location	Title	Author (s)
Plenary Session	Convergence Panel	Steve Diamond
Main Conference	Towards Uniform Management of Cloud Services by applying Model-Driven Development	Toni Mastelić, Ivona Brandić, Andrés García García
Main Conference	Transpacific Live Migration with Wide Area Distributed Storage	Ikuo Nakagawa, Kohei Ichikawa, Toru Kondo, Yoshiaki Kitaguchi, Hiroki Kashiwazaki and Shinji Shimojo
Main Conference	FSaaS: File System as a Service	Dapeng Dong and John Herbert
Main Conference	CrowdAdaptor: a CrowdSourcing Approach Toward Adaptive Energy-Efficient Configurations of Virtual Machines Hosting Mobile Applications	Edward Y. Y. Kan, W.K. Chan and T.H. Tse
QUORS workshop	Critical evaluation on jClouds and Cloudify abstract APIs against EC2, Azure and HP-Cloud,	Steven Thomas Graham, Xiaodong Liu
WASCOM workshop	An Evaluation of Adaptive Traffic Engineering for Delivering High Bandwidth Movie on Overlay Routing Network	Hiroki Kashiwazaki, Yoshiaki Takai
WASCOM workshop	An Adaptive XACMLv3 Policy enforcement Point	Romain Laborde, Bashar Kabbani, Francois Barrère, Abdelmalek Benzekri
STA workshop	Automated Model-based Performance Testing for PaaS Cloud Services	Junzan Zhou, Bo Zhou, Shanping Li
SSS workshop	Measuring Prediction Sensitivity of a Cloud Auto-scaling System	Ali Yadavar Nikraves, Samuel Ajila, Chung-Horng Lung
MidArch workshop	The Concept of a Mobility Data Cloud: Design, Implementation and Trials	Nikolay Tcholtchev, Benjamin Dittwald, Thomas Scheel, Begüm İlke Zilci, Danilo Schmidt, Philipp Lämmel, Jurma Jacobsen and Ina Schieferdecker

SAPSE workshop	I Was Confused: Robust Accountability for Permission Delegation in Cloud Federations	Samane Abdi
ADMNET workshop	Implementation and Evaluation of Secure Outsourcing Scheme for Secret Sharing Scheme on Cloud Storage Services	Toshihiro Ohigashi and Kouji Nishimura and Reiji Aibara, Kouta Yoshida
BIGIoT workshop	Designing of a Network-Aware Cloud Robotic Sensor Observation Framework	Fredrik Nordlund, Manabu Higashida, Yuuichi Teranishi, Shinji Shimojo, Masanori Yokoyama, Michio Shimomura
BIGIoT workshop	m-cloud - distributed statistical computation using multiple cloud computers	Ikuo Nakagawa, Masahiro Hiji, Yutaka Kikuchi, Masahiro Fukumoto, Shinji Shimojo
Posters	A QoS-oriented Inter-Cloud Federation Framework	Maria Salama, Ahmed Shawish
Posters	A Taxonomy for SLA-based Monitoring of Cloud Security	Dana Petcu

Smart Grid Congress

Location	Title	Author (s)
Main Conference	Analysis of Reliability and Resilience for Smart Grids	Murtadha N. Albasrawi, Nathan Jarus, Kamlesh A. Joshi, and Sahra Sedigh Sarvestani
WASCOM workshop	Profile-based Scalable Video Adaptation Employing MD-FEC Interleaving over Loss-Burst Channels	Sheau-Ru Tong, Huan-Wen Chen and Cheng-Han Yang
WASCOM workshop	Dynamic adaptive management of buffer for QoS guarantees and energy reduction	Wael Zouaoui, Carolina Albea Sanchez, Yann Labit
STPSA workshop	Quantification of Information Flow in a Smart Grid	Li Feng, Bruce McMillin
STPSA workshop	DCAFE: A Distributed Cyber Security Automation Framework for Experiments	George Rush, Daniel R. Tauritz, Alexander D. Kent
STPSA workshop	Security by Design for the Smart Grid: Combining the SGAM and NISTIR	Mathias Uslar, Christine Rosinger, Stefanie Schlegel