

Program at a Glance

Wednesday, 29 June 2011					
09:00	Registration (Lounge)				
09:30	Opening Session (501)				
09:50	Forum: Paradigm Shift of Research and Development for Information Technology under Changing and Unpredictable Market (501) Opening Chair: K. Mori				
10:10	Forum 1: Concept-oriented R&D (501) Moderator: K. Mori				
13:20	Lunch (Portpia Hotel)				
14:10	Room1: 501 Wireless Sensor Networks Chair: T. Ohta	Room2: 502 Railway Systems Chair: X. Zeng	Room3: 503 Autonomous Embedded Systems and Networking Chair: Y. Nakamoto	Room4: 504 AHSP 2011 Invited Talk Chair: A. Ito Special Session Chair: H. Morino	Room5: 505 ADSN 2011 Opening & Keynote Speech Chair: Y. Kakuda
15:40	Coffee Break				
16:00	Sensor & Ad-Hoc Networks Chair: C. Takano	Security Chair: A. Kanai	Collaborative Computing Chair: X. Bai	AHSP 2011 Technical Session 1 Chair: K. Cheng	ADSN 2011 Panel Discussion Coordinator: Y. Kakuda Special Session 1 Chair: K. Ishida
17:50	Reception (Portpia Hotel)				
Thursday, 30 June 2011					
09:00	Forum 2: Fusion of Technologies (501) Moderator: I-Ling Yen				
12:20	Lunch (Portpia Hotel)				
13:10	Vehicular Ad-Hoc & Sensor Networks Chair: M. Matsumoto	Communication Networks 1 Chair: O. Akashi	ADS for Mission Critical Systems Chair: X. Lu	AHSP 2011 Technical Session 2 Chair: S. Ohzahata	ADSN 2011 Technical Session: Chair: Q. Jin
14:40	Coffee Break				
15:00	System Chair: Y. Nakamoto	Communication Networks 2 Chair: N. Wakamiya	Video Coding & Streaming Chair: K. Kera	AHSP 2011 Technical Session 3 Chair: A. Ito	ADSN 2011 Special Session 2 Chair: J. Funasaka
16:30	Coffee Break				
16:50	Poster Session Chair: Y. Tan				
18:10	Bus Tour (Portpia Hotel)				
Friday, 1 July 2011					
09:00	Forum 3: Glocalization of Business (501) Moderator: M. Ogata				
11:50	Forum Conclusion (501) Moderators: K. Mori, I-L. Yen and M. Ogata				
12:20	Lunch (Portpia Hotel)				
13:10	Agent-based Framework Chair: T. Kubo				Network Software Chair: Y. Wakahara
14:40	Coffee Break				
15:00	Closing Panel Chair: M. Aida				

ISADS 2011 Final Program

Opening Session

Wednesday, 29 June 2011 9:30 — 09:50

Location: Room 1 (501), Kobe International Conference Center

Remark

Kinji Mori, Steering Committee Chair (Tokyo Institute of Technology, Japan)

Opening

Yoshiaki Kakuda, General Chair (Hiroshima City University, Japan)

Etsuhiko Shoyama, Honorary Chair (Hitachi, Japan)

Masaki Aida, Program Co-Chair (Tokyo Metropolitan University, Japan)

Tenth Jubilee ISADS Forum

Wednesday, 29 June 2011 09:50 — 10:10

Location: Room1 (501), Kobe International Conference Center

**Forum: Paradigm Shift of Research and Development for Information
Technology under Changing and Unpredictable Market**

Opening

Chair: Kinji Mori, Forum Organization Chair (Tokyo Institute of Technology, Japan)

Wednesday, 29 June 2011 10:10 — 13:20

Location: Room1 (501), Kobe International Conference Center

Forum 1: Concept-oriented R&D

Moderator: Kinji Mori (Tokyo Institute of Technology, Japan)

**Software Engineering Approaches to the Challenges in Technology Education and
System Development in the Software Ecosystem Environment**

C.V. Ramamoorthy (University of California, Berkeley, USA)

Culture Advancement

Katsuhiko Shirai (Waseda University, Japan)

Roads to a Smarter City - A Case Study

Colin Harrison (IBM, USA)

Advance Knowledge, Evolve Society

Alfonso Fuggetta (Politecnico di Milano, Italy)

Thursday, 30 June 2011 9:00 — 12:20

Location: Room1 (501), Kobe International Conference Center

Forum 2: Fusion of Technologies

Moderator: I-Ling Yen (University of Texas at Dallas, USA)

Fusion of Computer and Communication

Hermann Kopetz (Vienna University of Technology, Austria)

Future of Railway Signaling and Train Control

Tao Tang (Beijing Jiaotong University, Japan)

Fusion of Control, Computer and Real World

Yasushi Fukunaga (Hitachi Automotive Systems, Japan)

Fusion of Computer, Communication and Control Technologies: Needs and Strategies

Masayoshi Tomizuka (University of California, Berkeley, USA)

Friday, 1 July 2011 9:00 — 11:50

Location: Room1 (501), Kobe International Conference Center

Forum 3: Glocalization of Business

Moderator: Masaki Ogata (JR East, Japan)

Globally Integrated Enterprise - Thinking Globally, acting Locally AND Thinking Locally, acting Globally

Cathy Lasser (IBM, USA)

Standardization: Balancing Continuity & Innovation

Richard March Soley, (Object Management Group, Inc. (OMG), USA)

Summary of Glocalization of Business "Value Creation"

Yukio Toyoshima (Hitachi, Japan)

Friday, 1 July 2011 11:50 — 12:20

Location: Room1 (501), Kobe International Conference Center

Forum Conclusion

Moderators: Kinji Mori (Tokyo Institute of Technology, Japan), I-Ling Yen (University of Texas at Dallas, USA) and Masaki Ogata (JR East, Japan)

ISADS Technical Sessions

Wednesday, 29 June 2011 14:10 — 15:40

Location: Room 1 (501), Kobe International Conference Center

ISADS Technical Session 1: Wireless Sensor Networks

Chair: Tomoyuki Ohta (Hiroshima City University, Japan)

An Efficient Localized Chain Construction Scheme for Chain Oriented Wireless Sensor Networks

Quazi Mamun, Sita Ramakrishnan and Balasubramaniam Srinivasan (Monash University, Australia)

Autonomous Background Coordination Technology for Timely Sensor Connection in Wireless Sensor Network

Md. Emdadul Haque, Fan Wei, Yukihiro Fukunaga, Takehiro Gouda, Xiaodong Lu and Kinji Mori (Tokyo Institute of Technology, Japan)

SWARM-eTOSSIM : A Simulator for Distributed Energy-Constrained Tiny Devices

Mina Jung and Jae C Oh (Syracuse University, USA)

MASPOt: A Mobile Agent System for Sun SPOT

Ramon Lopes, Flávio Assis (Federal University of Bahia, Brazil) and Carlos Montez (Federal University of Santa Catarina, Brazil)

Wednesday, 29 June 2011 16:00 — 17:30

Location: Room 1 (501), Kobe International Conference Center

ISADS Technical Session 2: Sensor & Ad-Hoc Networks

Chair: Chisa Takano (Hiroshima City University, Japan)

Cell Range Extension Techniques for Wide-Area Ubiquitous Network

Yosuke Fujino, Shigeru Kuwano, Seiji Ohmori, Takafumi Fujita and Shuichi Yoshino (NTT Corporation, Japan)

Autonomous Emergency Information Transmission Technology Through Community Coordination to achieve real-time in Wireless Sensor Network System

Takehiro Gouda, Fan Wei, Md.Emadadul Haque, Yukihiro Fukunaga, Xiaodong Lu and Kinji Mori (Tokyo Institute of Technology, Japan)

Distributed Saddle-Point Computation for Lifetime Maximization in Mobile Sensor Networks

Shengwei Yu and C S George Lee (Purdue University, USA)

Pro-Reactive Route Recovery with Automatic Route Shortening in Wireless Ad Hoc Networks

Zilu Liang, Yuzo Taenaka, Takefumi Ogawa and Yasushi Wakahara (The University of Tokyo, Japan)

Wednesday, 29 June 2011 14:10 — 15:40

Location: Room 2 (502), Kobe International Conference Center

ISADS Technical Session 3: Railway Systems

Chair: Xiaoqing Zeng (Tongji University, China)

Formal Modeling and Verification of RBC Handover of ETCS Using Differential Dynamic Logic

Yupeng Liu, Tao Tang, Jintao Liu, Lin Zhao and Tianhua Xu (Beijing Jiaotong University, China)

A Proposal of Autonomous Online Expansion Technology for Real-time System and its Application to Railway Signaling System

Takashi Kunifuji, Hiroshi Ito, Yoshinori Saiki (East Japan Railway Company, Japan) and Kinji Mori (Tokyo Institute of Technology, Japan)

Modeling and Verification of the System Requirement Specification of Train Control System Using SDL

Lei Yuan, Tao Tang and Kaicheng Li (Beijing Jiaotong University, China)

Safety Monitoring for ETCS with 4-valued LTL

Xian Li, Ming Chai, Lin Zhao, Tao Tang and Tianhua Xu (Beijing Jiaotong University, China)

Wednesday, 29 June 2011 16:00 — 17:30

Location: Room 2 (502), Kobe International Conference Center

ISADS Technical Session 4: Security

Chair: Atsushi Kanai (Hosei University, Japan)

Foundation of Semantic Rule Engine to Protect Web Application Attacks

Abdul Razzaq, Ali Hur, Muddassar Masood, Khalid Latif, H Farooq Ahmad (National University of Sciences and Technology, Pakistan) and Hironao Takahashi (DTS Inc., Japan)

Application for Autonomous Decentralized Multi Layer Cache System to Web Application Firewall

Hironao Takahashi (Tokyo Institute of Technology, Japan), Hafiz Farooq Ahmad (National University of Sciences and Technology, Pakistan) and Kinji Mori (Tokyo Institute of Technology, Japan)

Role-Based Access-Control Using Reference Ontology in Clouds

Wei-Tek Tsai and Qihong Shao (Arizona State University, USA)

Thursday, 30 June 2011 13:10 — 14:40

Location: Room 1 (501), Kobe International Conference Center

ISADS Technical Session 5: Vehicular Ad-Hoc & Sensor Networks

Chair: Masayuki Matsumoto (JR East, Japan)

A Store-Carry-Forward-based Data Transfer Scheme Using Positions and Moving Direction of Vehicles for VANETs

Yasuharu Ohta, Tomoyuki Ohta, Eitaro Kohno and Yoshiaki Kakuda (Hiroshima City University, Japan)

Towards Automated Dependability Analysis of Dynamically Connected Systems
Paolo Masci, Marco Martinucci and Felicita Di Giandomenico (ISTI – CNR, Italy)

Mathematically Designing a Local Interaction Algorithm for Autonomous and Distributed Systems

Takeshi Kubo, Teruyuki Hasegawa and Toru Hasegawa (KDDI R&D Laboratories, Inc., Japan)

Thursday, 30 June 2011 15:00 — 16:30

Location: Room 1 (501), Kobe International Conference Center

ISADS Technical Session 6: System

Chair: Yukikazu Nakamoto (University of Hyogo, Japan)

Autonomous Continuous Target Tracking for Multi-sensor Systems and its Application for Radar Network

Tadashi Koga (Electronic Navigation Research Institute, Japan)

Platform for Cooperating among Field Systems, Control Systems and Enterprise Systems

Hidenori Yamamoto and Hiromitsu Kato (Hitachi, Ltd., Japan)

Assurance Technology of System Test based on Operators' Aspects

Masayuki Matsumoto (East Japan Railway Company, Japan)

An Ontology-based Dynamic Service Composition Framework for Intelligent Houses

Matei Popovici, Mihnea Muraru, Alexandru Agache, Lorina Negreanu, Cristian Giumale and Ciprian Dobre (Politehnica University of Bucharest, Romania)

Thursday, 30 June 2011 13:10 — 14:40

Location: Room 2 (502), Kobe International Conference Center

ISADS Technical Session 7: Communication Networks 1

Chair: Osamu Akashi (NTT, Japan)

Implementation of Autonomous Decentralized Flow Control Based on Local Interaction

Tatsuro Sumi, Chisa Takano, Kenji Ishida (Hiroshima City University, Japan) and Masaki Aida (Tokyo Metropolitan University, Japan)

Effective Parameters in Convergence of Autonomous Distributed Systems using with Immune System Approach

Touraj Banirostam and Mehdi Fesharaki (Islamic Azad University, Iran)

Nearest Neighbor Task Allocation for Large-scale Distributed Systems

Harumasa Tada (Kyoto University of Education, Japan)

Modeling Web Applications Design with Automata and its Verification

Kei Homma (Miyagi University, Japan), Satoru Izumi (Tohoku University, Japan), Kaoru Takahashi (Sendai National College of Technology, Japan) and Atsushi Togashi (Miyagi University, Japan)

Thursday, 30 June 2011 15:00 — 16:30

Location: Room 2 (502), Kobe International Conference Center

ISADS Technical Session 8: Communication Networks 2

Chair: Naoki Wakamiya (Osaka University, Japan)

Job Division in Service Oriented Computing Based on Time Aspect

Farzad Amirjavid, Hamid Mcheick (University of Quebec at Chicoutimi, Canada) and Mohamad Dbouk (Lebanese University, Lebanon)

Autonomous Decentralized Community System for Provision of Service-Assurance to Local Majority Users

Khalid Mahmood, Hiro Takahashi, Xiaodong Lu and Kinji Mori (Tokyo Institute of Technology, Japan)

Autonomous Community Adjustment Technology for Real-Time Transmission of Emergency Information

Fan Wei, Yohei Kotake, Md.Emadatul Haque, Yukihiko Fukunaga, Takehiro Gouda, Xiaodong Lu and Kinji Mori (Tokyo Institute of Technology, Japan)

Autonomous Content-Aware Multi-Service Integration Technology to Achieve Timeliness in Evolving Situations

Xiaodong Lu and Kinji Mori (Tokyo Institute of Technology, Japan)

Thursday, 30 June 2011 15:00 — 16:30

Location: Room 3 (503), Kobe International Conference Center

ISADS Technical Session 9: Video Coding & Streaming

Chair: Kazuo Kera (Hitachi Kokusai Electric Inc., Japan)

Low-Power Off-Chip Memory Design for Video Decoder Using Embedded Bus-Invert Coding

Ni Zhou, Fei Qiao, Huangzhong Yang and Hui Wang (Tsinghua University, China)

System-Level Evaluation of Video Processing System Using SimpleScalar-based Multi-core Processor Simulator

Zidong Du, Bingbing Xia, Fei Qiao and Huazhong Yang (Tsinghua University, China)

Autonomous Data Reallocation Technology for High Assurance in Streaming Service System

Kazuaki Wakao, Tatsuya Tsuda, Xiaodong Lu and Kinji Mori (Tokyo Institute of Technology, Japan)

Friday, 1 July 2011 13:10 — 14:40

Location: Room 1 (501), Kobe International Conference Center

ISADS Technical Session 10: Agent-based Framework

Chair: Takeshi Kubo (KDDI R&D Laboratories Inc., Japan)

A Highly Resilient Framework for Autonomous Robotic Swarm Systems Operating in Unknown, Hostile Environments

Angie Shia, Farokh Bastani and I Ling Yen (University of Texas at Dallas, USA)

Design of a Robot Cloud Center

Zhihui Du (Tsinghua University, China), Weiqiang Yang (Peking University, China), Yinong Chen (Arizona State University, USA), Xin Sun (Tsinghua University, China) and Xiaoying Wang (Qinghai University, China)

Application of Agent in Bus Signal Priority Intersection

Xiangfeng Cao, Decun Dong and Xiaoqing Zeng (Tongji University, China)

Decentralized Autonomous-Agent-based Infrastructure for Agile Multiparallel Manufacturing

Leo van Moergestel (Utrecht University of Applied Sciences, Netherlands), John-Jules Meyer (Utrecht University, Netherlands), Erik Puik and Daniël Telgen (Utrecht University of Applied Sciences, Netherlands)

ISADS Poster Session

Thursday, 30 June 2011 16:50 — 17:50

Location: Rooms 1 & 2 (501 & 502), Kobe International Conference Center

Poster Session

Chair: Yongdong Tan (Southwest Jiaotong University, China)

Autonomous Community Coordination Technology to Achieve High Assurance in Wireless Sensor Network

Fan Wei, Md.Emadatul Haque, Yukihiro Fukunaga, Takehiro Gouda, Xiaodong Lu and Kinji Mori (Tokyo Institute of Technology, Japan)

Autonomous Surrounding Community Construction Technology for Assurance in Disaster Support System

Titichaya Thanamitsomboon, Riyako Sakamoto, Xiaodong Lu and Kinji Mori (Tokyo Institute of Technology, Japan)

A Route Discovery Method for Alleviating Traffic Congestion Based on VANETs in Urban Transportations Considering a Relation between Vehicle Density and Average Velocity

Mitsuhsa Kimura, Shinji Inoue, Yoshiaki Kakuda (Hiroshima City University, Japan), Tadashi Dohi (Hiroshima University, Japan)

Fast Detection of Communication Path Failures in an Autonomous Decentralized System

Jianli Sun (Mitel Corporation, Canada) and Yinong Chen (Arizona State University, USA)

Autonomous Request Based Community Construction Technology for Wireless Sensor Networks to Achieve High Expandability

Md.Emdadul Haque, Fan Wei, Yukihiro Fukunaga, Takehiro Gouda, Xiaodong Lu and Kinji Mori (Tokyo Institute of Technology, Japan)

Autonomous Heterogeneous Community Technology for Effective Resource Utilization

Titichaya Thanamitsomboon, Hiroyuki Endo, Xiaodong Lu and Kinji Mori (Tokyo Institute of Technology, Japan)

Automated Refinement of Dependability Analysis through Monitoring in Dynamically Connected Systems

Antonia Bertolino, Antonello Calabro, Felicita Di Giandomenico, Marco Martinucci, Paolo Masci (Consiglio Nazionale delle Ricerche, Italy)

China Railway Autonomous Service Integration System Based on ADS

Jianwu Dang, Shuxu Zhao, Yangping Wang (Lanzhou Jiaotong University, China)

Building a Security Aware Cloud by Extending Internal Control to Cloud

Hiroyuki Sato (The University of Tokyo, Japan), Atsushi Kanai (Hosei University, Japan) and Shigeaki Tanimoto (Chiba Institute of Technology, Japan)

An Autonomous Decentralized Service Oriented Architecture for High Reliable Service Provision

Luis Carlos Coronado-García, Jesús Alejandro González-Fuentes, Pedro Josue Hernández-Torres and Carlos Pérez-Leguizamón (The Banco de México, Mexico)

An Autonomous Decentralized System Architecture using a Software-Based Secure Data Field

Luis Carlos Coronado-García, Jesús Alejandro González-Fuentes, Pedro Josué Hernández-Torres, and Carlos Pérez-Leguizamón (The Banco de México, Mexico)

Establishment Phased-in Constructing Method for System Expansion of Tokyo Metropolitan Railway System

Daisuke Yagyu, Hideki Osumi (Hitachi Ltd., Japan) and Hidenari Tokunaga (East Japan Railway Company, Japan)

A Self-Configurable New Generation Children Tracking System Based on Mobile Ad Hoc Networks Consisting of Android Mobile Terminals

Yuichiro Mori, Hideharu Kojima, Eitaro Kohno, Shinji Inoue, Tomoyuki Ohta, Yoshiaki Kakuda (Hiroshima City University, Japan), and Atsushi Ito (KDDI R&D Laboratories Inc., Japan)

Investigation of Energy Consumption of Mobile Station for Instant Messaging Services

Yun Won Chung (Soongsil University, Korea)

Proposing Software Transactional Memory for Embedded Systems

Yukikazu Nakamoto, Yusuke Tamura, Shimpei Yamada (University of Hyogo, Japan)

Technologies toward High Performance and High Reliability in Suica System

Yuichi Hatsuse, Akiko Mano (JR East Japan Information System, Japan), Hidehiko Nagase (JR East Mechatronics, Japan), Motoharu Yamana and Akio Shiibashi (East Japan Railway Company, Japan)

ISADS Special Sessions

Wednesday, 29 June 2011 14:10 — 15:40

Location: Room 3 (503), Kobe International Conference Center

Special Session 1: Autonomous Embedded Systems and Networking

Chair: Yukikazu Nakamoto (University of Hyogo, Japan)

Experimental Analysis of Global Clock Synchronization and Primary-Shadow Replication Scheme for Fault-Tolerant Auto-pilot Program of Small UAV

Junyeong Kim and Doo-Hyun Kim (Konkuk University, Korea)

Anomaly Symptom Detection and Autonomic Resource Management System

Midori Sugaya and Kimio Kuramitsu (Yokohama National University, Japan)

DSVD: An Effective Low-Overhead Dynamic Software Vulnerability Discoverer

Zhuo Wang, Zhushou Tang, Kan Zhou, Ruoyu Zhang, Zhengwei Qi and Haibin Guan (Shanghai Jiaotong University, China)

Wednesday, 29 June 2011 16:00 — 17:30

Location: Room 3 (503), Kobe International Conference Center

Special Session 2: Collaborative Computing

Chair: Xiaoying Bai (Tsinghua University, China)

Service Replication Strategies with MapReduce in Clouds

Wei-Tek Tsai, Peide Zhong, Jay Elston, Yinong Chen (Arizona State University, USA)
Xiaoying Bai (Tsinghua University, China)

A Service Registry Meta-model Framework for Interoperability

Zaiwen Feng, Rong Peng, Bing Li, Keqing He, Chong Wang, Jian Wang and Cheng Zeng (Wuhan University, China)

Study on Interaction Behaviors of Micro-Autonomous Vehicles

Deyi Li, Xiaodong Wang, Wen He, Mu Guo and Tianlei Zhang (Tsinghua University, China)

Thursday, 30 June 2011 13:10 — 15:00

Location: Room 3 (503), Kobe International Conference Center

Special Session 3: ADS for Mission Critical Systems

Chair: Xiaodong Lu (Tokyo Institute of Technology, Japan)

An Autonomous Decentralized Public Key Infrastructure

Luis Carlos Coronado-Garcia and Carlos Perez-Leguizamo (The Banco de México, Mexico)

Research on the Method of Interoperability Test for the Onboard Equipment of CTCS-3 Train Control System of Chinese Railway

Yu Liu and Tao Tang (Beijing Jiaotong University, China)

Design and Implementation of HL7 V3 based Service Aware System

Mehtab Alam, Maqbool Hussain, Muhammad Afzal, Maajid Maqbool, H.Farooq Ahmad and Somia Razzaq (NUST, Pakistan)

An Architecture of MicroGrid Based on Role Autonomous Decentralized System

Peng Li and Yongdong Tan (Southwest Jiaotong University, China)

Research on the Fault Tolerance Mechanism for On-Board Fault Early Warning System Based on ADS Theory

Xiaoqing Zeng, Lei Qiu, Fan Mo, Shaoying Wang and Zhi Chen (Tongji University, China)

Invited Talk: Concept Creation on Railway

Weihua Zhang (Southwest Jiaotong University, China)

Friday, 1 July 2011 13:10 — 14:40

Location: Room 5 (505), Kobe International Conference Center

Special Session 4: Network Software

Chair: Yasushi Wakahara (University of Tokyo, Japan)

Towards a Multiagent-based Software Architecture for Sensor Networks

Jürgen Dunkel (Hannover University of Applied Sciences and Arts, Germany)

Socio-familiar Personalized Service and its Application --- Towards a New Network Software for Next Generation Ubiquitous Service

Kazuo Hashimoto, Gen Kitagata, Hideyuki Takahashi, Atsushi Takeda, Debasish Chakraborty and Norio Shiratori (Tohoku University, Japan)

Introduction of Ubiquitous Service Platform Project CUBIQ

Masayoshi Ohashi (ATR, Japan)

Self-Stabilization in Energy-Constraint Wireless Sensor/Ad Hoc Networks

Szu-Chi Wang, Hiroyuki Morikawa (The University of Tokyo, Japan)

ISADS Closing Panel Session

Friday, 1 July 2011 15:00 — 16:00

Location: Room 1 (501), Kobe International Conference Center

Panel Session: Toward the Next Decade of Autonomous Decentralized Systems

Chair: Masaki Aida (Tokyo Metropolitan University, Japan)

Panelists:

Yinong Chen (Arizona State Univ., USA)

Kinji Mori (Tokyo Inst. of Tech., Japan)

Carlos Pérez Leguízamo (Banco de México, Mexico)

Yongdong Tan (Southwest Jiaotong University, China)

AHSP 2011 Workshop

The Fourth International Workshop on Ad Hoc, Sensor and P2P Networks

Wednesday, 29 June 2011 14:10 — 14:55

Location: Room 4 (504), Kobe International Conference Center

Invited Talk

Chair: Atsushi Ito (KDDI R&D Laboratories Inc., Japan)

BruteSaaS: A Centrally Managed Pull-based Peer-to-Peer System for Software Distribution in Enterprise Environments

Niels Joubert (BruteSoft Inc., USA)

Wednesday, 29 June 2011 14:55 — 15:40

Location: Room 4 (504), Kobe International Conference Center

Special Session

Chair: Hiroaki Morino (Shibaura Institute of Technology, Japan)

Applying the Tree Algorithm with Prioritization for Body Area Networks

R. Annur, N. Wattanamongkhol, S. Nakperayuth, L. Wuttisittikulkij (Chulalongkorn University, Thailand), and Jun-ichi Takada (Tokyo Institute of Technology, Japan)

Service Brokering and Mediation: Enabling Next Generation Market and Customer Driven Service Delivery

Kong Cheng, Yitzchak Gottlieb, Gary Levin and Fuchun Joe Lin (Telcordia Technologies Inc., USA)

Wednesday, 29 June 2011 16:00 — 17:30

Location: Room 4 (504), Kobe International Conference Center

Technical Session 1: Ad Hoc Networks, Wireless Mesh Networks

Chair: Kong Cheng (Telcordia Technologies Inc., USA)

An ARQ Scheme Using NACK for Network Coding in Wireless Multihop Networks

Hiraku Okada (Saitama University, Japan), Hiroya Hiramuki and Kenichi Mase (Niigata University, Japan)

A Data Transfer Scheme Using Autonomous Clustering in VANETs Environment

Satoshi Teshima, Tomoyuki Ohta, Eitaro Kohno and Yoshiaki Kakuda (Hiroshima City University, Japan)

Analysis of Ad hoc Network Performance For Disaster Communication Models

Keigo Shimoda and Koichi Gyoda (Shibaura Institute of Technology, Japan)

Safety Support System on School Routes Based on Grouping of Children in Mobile Ad Hoc Networks

Atsushi Ito (KDDI R&D Laboratories Inc., Japan), Yoshiaki Kakuda, Tomoyuki Ohta and Shinji Inoue (Hiroshima City University, Japan)

Thursday, 30 June 2011 13:10 — 14:40

Location: Room 4 (504), Kobe International Conference Center

Technical Session 2: P2P, Load Balancing, and Distributed Computing

Chair: Satoshi Ohzahata (University of Electro-Communication, Japan)

A Resource-efficient Method for Crawling Swarm Information in Multiple BitTorrent Network

Masahiro Yoshida and Akihiro Nakao (The University of Tokyo, Japan)

A Load Reduction System to Mitigate Flash Crowds on Web Server

Kenji Yokota (Kyoto University, Japan), Takuya Asaka (Tokyo Metropolitan University, Japan), and Tatsuro Takahashi (Kyoto University, Japan)

A Distributed Incremental Construction Method of Delaunay Overlay Network Using Detour Paths

Masaaki Ohnishi and Masugi Inoue (NICT, Japan)

A Study on Performance of Processes in Migrating Virtual Machines

Yosuke Kuno, Kenichi Nii and Saneyasu Yamaguchi (Kogakuin University, Japan)

A Server Cache Size Aware Cache Replacement Algorithm for Block Level Network Storage

Yusuke Nagasako and Saneyasu Yamaguchi (Kogakuin University, Japan)

Thursday, 30 June 2011 15:00 — 17:10

Location: Room 4 (504), Kobe International Conference Center

Technical Session 3: Wireless Sensor & Ad Hoc Networks, Wireless LAN

Chair: Atsushi Ito (KDDI R&D Laboratories Inc., Japan)

Distance-and-Rate Dependent RTS/CTS Reservation in Wireless LAN for Enhancing Spatial Reuse

Hiroaki Morino (Shibaura Institute of Technology, Japan), Masugi Inoue (NICT, Japan), and Tohru Sanefuji (Nassua Solutions Inc., Japan)

Regional Wireless Network Platform for Context-Aware Services and Its Implementation

Yasunori Owada, Masugi Inoue and Masaaki Ohnishi (NICT, Japan)

A New SMN Configuration Method for RSR Considering Node Energy Consumption in MANETs

Mario Takeuchi, Eitaro Kohno, Tomoyuki Ohta and Yoshiaki Kakuda (Hiroshima City University, Japan)

A Performance Study of GPSR and GRMax with Grid and Randomly Distributed Nodes in Wireless Sensor Networks

Attoungble Kouakou Jean Marc and Kazunori Okada (NICT/University of Electro-Communication, Japan)

Error-Tolerance in Quantifying Traffic States Using Mobile Phones

Quang Tran Minh, Eiji Kamioka (Shibaura Institute of Technology, Japan)

ADSN 2011 Workshop

The Tenth International Workshop on Assurance in Distributed Systems and Networks

Wednesday, 29 June 2011 14:10 — 15:40

Location: Room 5 (505), Kobe International Conference Center

Opening

Kinji Mori, General Chair (Tokyo Institute of Technology, Japan)

Kenji Ishida, Program Chair (Hiroshima City University, Japan)

Keynote Speech

Chair: Yoshiaki Kakuda (Hiroshima City University, Japan)

Prospects on R&D for New-Generation Networks

Masayuki Murata (Osaka University, Japan)

Wednesday, 29 June 2011 16:00 — 16:40

Location: Room 5 (505), Kobe International Conference Center

Panel Discussion: Assurance Networks

Coordinator: Yoshiaki Kakuda (Hiroshima City University, Japan)

The Permanent Challenge: How to Enhance Assurance to Users of Computer and Communication Systems?

Miroslaw Malek (Humboldt University Berlin, Germany)

Assuring Mobile Physical Services for the New Generation of Networks

Yinong Chen (Arizona State University, USA)

Assurance Networks from a Software Perspective

Jürgen Dunkel (Hannover University of Applied Sciences and Arts, Germany)

Wednesday, 29 June 2011 16:45 — 17:30

Location: Room 5 (505), Kobe International Conference Center

Special Session 1: NwGN

Chair: Kenji Ishida (Hiroshima City University, Japan)

Assurance Diversity Network Platform for NwGN

Toshiaki Suzuki, Nozomu Nishinaga (NICT, Japan) and Akihiro Nakao (NICT, University of Tokyo, Japan)

Autonomous and Adaptive Wireless Networking with Bio-Inspired Algorithms

Naoki Wakamiya and Masayuki Murata (Osaka University, Japan)

Thursday, 30 June 2011 13:10 — 14:40

Location: Room 5 (505), Kobe International Conference Center

Technical Session

Chair: Qun Jin (Waseda University, Japan)

Experimental Evaluation of TCP-STAR for Satellite Internet over WINDS

Hiroyasu Obata, Kazuya Tamehiro and Kenji Ishida (Hiroshima City University, Japan)

A Transition Reduction Method for FSM of MANET Routing Protocol with Blacklist

Hideharu Kojima, Tomoyuki Ohta and Yoshiaki Kakuda (Hiroshima City University, Japan)

SMSS: Symmetric-Masquerade Security Scheme for VANETs

Lingyun Zhu, Chen Chen, Xin Wang (Fudan University, China), and Azman Osman Lim (JAIST, Japan)

Minimizing Restart Time for Fast Rejuvenation and Availability Enhancement

Sudhanshu Shekhar Jha, Adrian Jonel Krdu (ALaRI, University of Lugano, Switzerland), and Miroslaw Malek (Humboldt University Berlin, Germany)

Thursday, 30 June 2011 15:00 — 16:30

Location: Room 5 (505), Kobe International Conference Center

Special Session 2: Multidisciplinary Emerging Networks and Systems:

Chair: Junichi Funasaka (Hiroshima City University)

An Approach for Service Composition and Testing on the Cloud

Wei-Tek Tsai, Peide Zhong, Yinong Chen, Janaka Balasooriya, Jay Elston (Arizona State University, USA), and Xiaoying Bai (Tsinghua University, China)

A Unified Design Model for Assurance Networks and Its Application to Mobile Ad Hoc Networks

Yoshiaki Kakuda (Hiroshima City University, Japan) and Miroslaw Malek (Humboldt University Berlin, Germany)

Application of Reinforcement Learning to Software Rejuvenation

Hiroyuki Okamura and Tadashi Dohi (Hiroshima University, Japan)

Flowable Services: A Human-Centric Framework toward Service Assurance

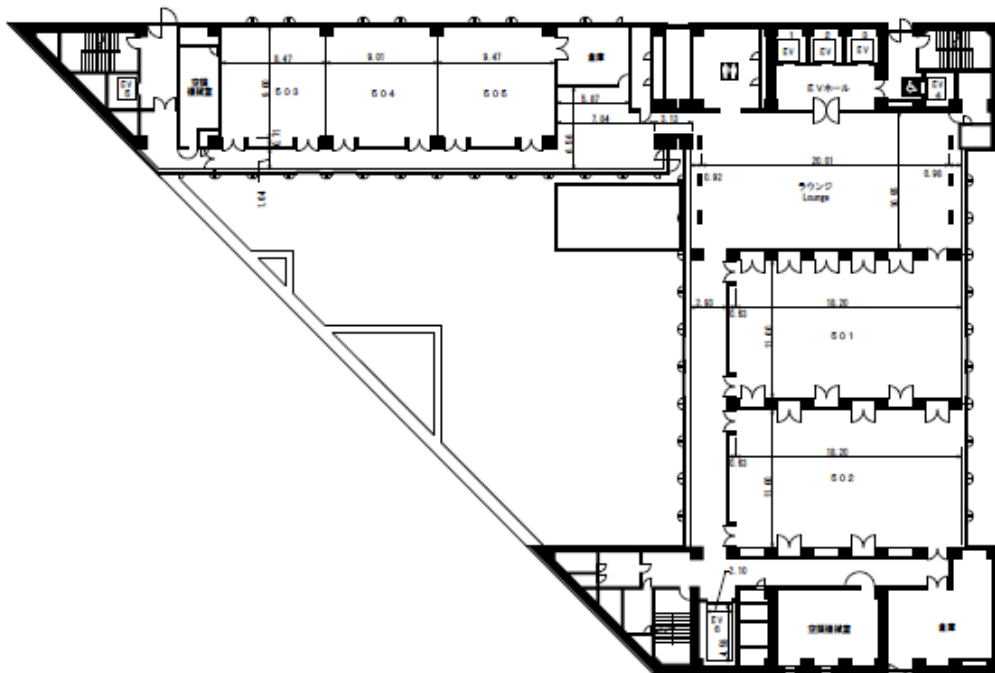
Qun Jin, Yishui Zhu, Roman Y. Shtykh (Waseda University, Japan), Neil Y. Yen, and Timothy K. Shih (National Central University, Taiwan)

Overview of Modeling and Analysis of Incentive Mechanisms Based on Evolutionary Game Theory in Autonomous Networks

Yufeng Wang (NICT, Japan), Akihiro Nakao (University of Tokyo, Japan), Athanasios V. Vasilakos (University of Western Macedonia, Greece) and Jianhua Ma (Hosei University, Japan)

Closing

Symposium Venue's Floor Map



The Symposium venue is located at 5th floor of Kobe International Conference Center.
The Registration desk and Speaker's assistance desk are located at 5th floor.

General Information

Symposium Venue

The ISADS 2011 Symposium and Forum, the 4th workshop of AHSP (AHSP 2011) and the 10th workshop of ADSN (ADSN 2011) will be held in Kobe International Conference Center, Kobe.

ISADS 2011 AHSP 2011 ADSN 2011	6-9-1 Minatojima-nakamachi, Chuo-ku, Kobe 650-0046, Japan Tel: +81-78-302-5200 Fax: +81-78-302-6485 http://kobe-cc.jp/english/index.html
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HOTELS at Kobe

PORTOPIA Hotel	10-1, 6 Chome, Minatojima Nakamachi, Chuo-ku, Kobe, 650-0046 Tel: +81-78-302-1111 Fax: +81-78-302-6877 http://www.portopia.co.jp/en/index.html
Hotel Pearl City Kobe	7-5-1 Chome, Minatojima-nakamachi, Chuo-ku, Kobe, 650-0046 Tel: +81-78-303-0100 Fax: +81-78-303-0211 http://www.pearlcity.co.jp/kobe/foreign/english.html

Useful Telephone Numbers (prefix for Japan: +81)

Police	110
Kobe Police phone number	078-341-7441
Fire/Ambulance	119
Kobe Tourist Information phone number	078- 303-1010
Kobe City Information Center	078-322-0220
Flight Information (Kansai)	072-455-2500

Access to Kobe

International Flight (Arriving Kansai International Airport (KIX))

Kansai International Airport (KIX) is the closest international gateway for Kobe and located around the Osaka Bay along a fast coastal highway. To transfer from KIX to Kobe:

- Transfer by Limousine Bus : 65 minutes and 1,800 Yen (KIX to downtown Kobe, Sannomiya) (Operations every 10-20 minutes between 06:20 - 23:15, Bus Stop No.6).

JR Shinkansen Train (Arriving at Shin-Kobe Station)

- Shinkansen Trains to Shin-Kobe from Tokyo take about 2 hrs 50 minutes and cost approx. 15,000 Yen. Trains run about every 20 minutes. The last train bound for Kobe is at 20:30 (arriving 23:19) the first at 06:00 am.

Liability & Insurance

The organizers cannot be held responsible for accidents to symposium participants or accompanying persons, for damage or loss of their personal property or for cancellation expenses, regardless of cause. Participants are advised to carry out their own insurance arrangements during their stay in Japan.