

IEEE ICCCN2007 Technical Program

16th International Conference on Computer Communications and Networks

(<http://www.iccn.org/iccn07/>)



August 13 – 16, 2007



Turtle Bay Resort, Honolulu, Hawaii, USA

		KUILIMA I/II	KUILIMA III	SUNSET	KAHUKU II
Monday (August 13)	8:00-8:10	Open Remarks (General Chair: Dr. Katherine Guo, Technical Program Chair: Dr. Haohong Wang)			
	8:10-9:20	Keynote I: Managing Digital Objects on the Internet (Speaker: Dr. Robert Kahn, CNRI, USA, Chair: Dr. Katherine Guo)			
	9:40-11:40	MA1: Cross-layer Design and Optimization (Chair: Dr. Lavy Libman)	MA2: Wireless and Mobile Network Architecture (Chair: Dr. Katherine Guo)	MA3: Wireless Ad-hoc and Sensor Network I (Chair: Dr. Tian He)	MA4: Peer-to-Peer and Grid networking (Chair: Dr. Xiang-Gen Xia)
	13:00-14:20	MP1: Signal Processing for Communications I (Chair: Dr. Danilo Gligoroski)	MP2: Computer Architecture for networking (Chair: Dr. Biswanath Mukherjee)	MP3: Wireless Ad-hoc and Sensor Network II (Chair: Dr. Ivan Stojmenovic)	MP4: Optical networking I (Chair: Dr. Vinod Vokkarane)
	14:40-15:20	MP5: Distinguished Position Talk I: Space-time coding for MIMO and Cooperative Systems (Speaker: Dr. Xiang-Gen Xia, Chair: Dr. Asis Nasipuri)	MP6: Distinguished Position Talk II: Network coding - Theory and Applications (Speaker: Dr. S.-Y. Robert Li, Chair: Dr. Yiming Ji)	MP7: Distinguished Position Talk III: Sensor actuator networking: Merging wireless sensor and ad hoc networks (Speaker: Dr. Ivan Stojmenovic, Chair: Dr. Jun-Hong Cui)	MP8: Distinguished Position Talk IV: Creating New Services and Service-Level Agreements (SLAs) in Telecom Networks (Speaker: Dr. Biswanath Mukherjee, Chair: Dr. Vinod Vokkarane)
	15:30-16:50	MP9: Distinguished Position Talk XI: Ethernet vs. Ethernet: Fad or Fashion? (Speaker: Dr. Wu-chun Feng, Chair: Byrav Ramamurthy)	MP10: Broadband Wireless Access (Chair: Dr. Rudra Dutta)	MP11: Wireless Ad-hoc and Sensor Network III (Chair: Dr. Jun-Hong Cui)	MP12: Optical networking II (Chair: Dr. Galen Sasaki)
	17:00-18:00	Panel Discussion I: Cross-Layer Optimized Wireless Networks and Multimedia Communications (Chair: Dr. Xi Zhang)			
	18:30-20:00	Conference Reception			
Tuesday (August 14)	8:00-9:10	Keynote II: Research Challenges in Cognitive Radio Networks (Speaker: Dr. Vijay K. Bhargava, University of British Columbia, Canada, Chair: Dr. Xi Zhang)			

	9:30-11:30	TA1: Qos control and Traffic modeling (Chair: Dr. Qusay H. Mahmoud)	TA2: Emerging Networking Technology (Chair: Dr. Xingang Guo)	TA3: Wireless Communications (Chair: Dr. Chang Wen Chen)	TA4: Best Paper Competition (Chair: Dr. Chin-Tser Huang)
	13:00-14:20	TP1: Multimedia Communications (Chair: Dr. Zhu Li)	TP2: Pervasive Computing and Mobile Networking I (Chair: Dr. Ben Y. Zhao)	TP3: Optical Networking III (Chair: Dr. Vincent W. S. Chan)	TP4: Internet Services (Chair: Dr. Hideki Tode)
	14:40-15:20	TP5: Distinguished Position Talk V: Recent Advances in Video Adaptation for Mobile Device Access (Speaker: Dr. Changwen Chen, Chair: Dr. Zhu Li)	TP6: Distinguished Position Talk VI: Inhabitant Activity Recognition and Context Modeling in Smart Environments (Speaker: Dr. Sajal Das, Chair: Dr. Ben Y. Zhao)	TP7: Distinguished Position Talk VII: Some Interesting Research Problems in Optical Networks (Speaker: Dr. Vincent W.S. Chan, Chair: Dr. Galen Sasaki)	TP8: Distinguished Position Talk VIII: Multimedia Conferencing in mobile ad hoc networks: Challenges and early approaches (Speaker: Dr. Roch Glitho, Chair: Dr. Naoki Wakamiya)
	15:30-16:50	TP9: Broadband Networking and Protocols (Chair: Dr. Baek-Young Choi)	TP10: Pervasive Computing and Mobile Networking II (Chair: Dr. Sajal Das)	TP11: Network Security I (Chair: Dr. Tilman Wolf)	TP12: Network Algorithm and Performance Evaluation I (Chair: Dr. Naoki Wakamiya)
	17:00-18:00	Panel Discussion II: Convergence of Communication Network with Media and Social Interactions: Technical Challenges and Business Opportunities (Chair: Dr. Zhu Li)			
	18:30-21:00	Dinner/Banquet/Awards			
Wednesday (August 15)	8:00-9:10	Keynote III: Challenges and Opportunities in Video Transmission (Speaker: Dr. Aggelos Katsaggelos, Northwestern University, USA, Chair: Dr. Song Ci)			
	9:30-11:30	WA1: Network Security II (Chair: Dr. K.P. Subbalakshmi)	WA2: Network Algorithm and Performance Evaluation II (Chair: Dr. Sergey Gorinsky)	WA3: Parallel and Distributed Computing (Chair: Dr. Debanjan Saha)	WA4: General Track (Chair: Dr. Arunita Jaekel)
	11:40-12:20	WP1: Distinguished Position Talk IX: Tracing and mitigating distributed denial of service attacks (Speaker: Dr. Nirwan Ansari, Chair: Dr. K.P. Subbalakshmi)	WP2: Distinguished Position Talk X: Stream processing networks (Speaker: Dr. Zhen Liu, Chair: Dr. Tao Xie)	WP3: Meet the ICCCN 2008 Chairs (Informal discussion for improving the future ICCCN conferences)	WP4: Distinguished Position Talk XII: Network Resilience: Using One's Neighbors Wisely in Cooperative Networks (Speaker: Dr. Dan Rubenstein, Chair: Dr. Arunita Jaekel)
	13:40-14:40	WP5: Distinguished Position Talk XIII: Internet Applications and Services for Digital Communities (Speaker: Dr. Debanjan Saha, Chair: Dr. Jorge A. Cobb)	WP6: NSF Funding Forum (Speaker: Dr. Jie Wu, Chair: Dr. E. K. Park)	WP7: ANC Workshop I: Network Security (Chair: Dr. Nirwan Ansari)	WP8: ANC Workshop II: Network Security (Chair: Dr. Zhen Liu)
	15:00-16:00	Panel Discussion III: Enhanced Multimedia User Experience in 4G Networks (Chair: Dr. Khaled El-Maleh)			

	16:20-18:00	WP9: ANC Workshop III: Multimedia Processing and Communications (Chair: Dr. Chia-Wen Lin)	WP10: ANC Workshop IV: Wireless Ad-hoc and Sensor Networks (Chair: Dr. Tarek Abdelzaher)	WP11: ANC Workshop V: Wireless Communications (Chair: Dr. Lin Guan)	WP12: ANC Workshop VI: Network Algorithms and Systems (Chair: Dr. Dan S. Rubenstein)
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		KUILIMA I/II	KUILIMA III	HAWAII	KAHUKU II	KAHUKU I
Thursday (August 16)	8:30-9:30	Keynote IV: Quality Assurance and Adaptation: A Key to Stress-Resilient Internet Services (Speaker: Dr. Cheng-Zhong Xu, Wayne State University, USA, Chair: Dr. Xiaobo Zhou, University of Colorado at Colorado Springs, USA)				
	9:30-9:40	Workshop Open Remarks				
	10:00-12:00	WiMAN I: Routing, Scheduling, and Channel Assignment I (Chair: Dr. Frank Reichenbach)	WiMAN II: MAC Protocols (Chair: Dr. Alistair Munro)	IMAP I: Video Coding and Analysis (Chair: Dr. Gokce Dane)	PMECT I: Performance Modeling of Internet and QoS (Chair: Iain Phillips)	DSS I: MAC, Mobility and Power Management (Chair: Dr. John McEachen)
	13:30-14:30	WiMAN III: Invited Talk: Ad Hoc Networks for the Cyber-Physical Frontier (Speaker: Dr. Tarek Abdelzaher)		IMAP II: Invited Talk: Perception Is Reality: Visual Quality Evaluation and Beyond (Speaker: Dr. Weisi Lin, Chair: Dr. Shiqian Wu)	PMECT II: Performance Modeling of Mobile Networks (Chair: Dr. Polychroni Koutsakis)	DSS II: NeTRA and Applications (Chair: Dr. Yan Bai)
	14:30-15:30	WiMAN IV: Wireless Communications and Antennas (Chair: Dr. Edoardo Biagioni)	WiMAN V: Routing, Scheduling, and Channel Assignment II (Chair: Dr. Karoly Farkas)	IMAP III: Multimedia Quality Evaluation (Chair: Dr. Weisi Lin)		
	16:00-18:00	WiMAN VI: Architecture, Cross-layer Optimization, and Resource Allocation Models (Chair: Dr. Yong Wang)	WiMAN Workshop VII: Wireless Sensor and Ad Hoc Networks (Chair: Dr. Liqiang Zhang)	IMAP IV: Media Processing for Intelligent Video Surveillance (Chair: Dr. Chiou-Ting Hsu, Dr. Jun-Wei Hsieh)	PMECT III: Performance Modeling II and Platforms (Chair: Dr. Xingang Wang)	DSS III: Security and Privacy (Chair: Dr. Junichi Suzuki)

Monday, August 13, 2007

7:30 Registration Desk Opens

8:00 – 8:10 Opening Ceremony (General Chair: Dr. Katherine Guo, Technical Program Chairs: Dr. Haohong Wang, KUILIMA I/II)

8:10 – 9:20 Keynote I: Managing DIGITAL OBJECTS on the Internet (KUILIMA I/II)

Keynote Speaker: Dr. Robert Kahn, Corporation for National Research Initiatives

Chair: Katherine Guo, Alcatel-Lucent Bell-Labs, USA

Monday 9:40 – 11:40

Session MA1: Cross-layer Design and Optimization (KUILIMA I/II)

Chair: Dr. Lavy Libman, National ICT Australia, Australia

1569032861	<i>A New Perspective of Cross-layer Optimization for Wireless Communication over Fading Channel</i>	Xiaofeng Bai (The University of Western Ontario, CA); Abdallah Shami (The University of Western Ontario, CA)
1569036705	<i>Opportunistic Scheduling for Delay Sensitive Flows in Wireless Networks</i>	Yu Wu (National University of Defense Technology, CN)
1569036709	<i>Computationally Efficient Cross-Layer Algorithm for Fair Dynamic Bandwidth Allocation</i>	Antoni Morell (Universitat Autònoma de Barcelona (UAB), ES); Gonzalo Seco Granados (Universitat Autònoma de Barcelona, ES); Maria-Angeles Vazquez Castro (Universidad Autònoma de Barcelona, ES)
1569032181	<i>Infrastructure for Cross-Layer Designs Interaction</i>	Zhijiang Chang (Technical University of Delft, NL); Georgi Gaydadjiev (Technical University of Delft, NL); Stamatis Vassiliadis (TU Delft, NL)

1569036791	<i>A Unified Software Architecture to Enable Cross-Layer Design in the Future Internet</i>	Ilia Baldine (RTI International, US); Manoj Vellala (North Carolina State University, US); Anjing Wang (North Carolina State University, US); George Rouskas (North Carolina State University, US); Rudra Dutta (North Carolina State University, US); Dan Stevenson (MCNC-RDI, US)
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Session MA2: Wireless and mobile network architecture (KUILIMA III)

Chair: Dr. Katherine Guo, Alcatel-Lucent Bell-Labs, USA

1569033233 Invited Paper	<i>Localized detection of k-connectivity for wireless ad hoc, actuator and sensor networks</i>	Ivan Stojmenovic (University of Ottawa, CA)
1569030613	<i>Interference Mitigation Using Spectrum Sensing</i>	Srikathyayani Srikanteswara (Intel, US); Christian Maciocco (Intel Corp., US)
1569032333	<i>Global Path-Cache Technique for Fast Handoffs in WLANs</i>	Weetit Wanalertlak (Oregon State University, US); Ben Lee (Oregon State University, US)
1569032917	<i>Efficient Real-Time Support for Hybrid Tasks in a Sensor Node Platform</i>	Sungwoo Tak (Pusan National University, KR)
1569036679	<i>MBAL: A Mobile Beacon-Assisted Localization Scheme for Wireless Sensor Networks</i>	Kyunghwi Kim (Korea University, KR); Wonjun Lee (Korea University, Korea, KR)
1569036859	<i>Travel-light: A Model for the Dynamic Assembly of Mega Machines</i>	Li Gao (University of Alabama, US); Jingyuan Zhang (University of Alabama, US); Danyang Zhang (New Mexico Highlands University, US)

Session MA3: Wireless Ad-hoc and Sensor Networks I (SUNSET)

Chair: Dr. Tian He, University of Minnesota, USA

1569041897 Invited Paper	<i>A Caching-Based Approach to Routing in Delay-Tolerant Networks</i>	Dan Henriksson (University of Illinois at Urbana-Champaign, US); Tarek Abdelzaher (University of Illinois, Urbana Champaign, US); Raghu Kiran Ganti (University of Illinois at Urbana-Champaign, US)
1569045160 Invited Paper	<i>Localized and Configurable Topology Control in Lossy Wireless Sensor Networks</i>	Guoliang Xing (Cityu University of Hong Kong, HK); Chenyang Lu (Washington University in St. Louis, US); Robert Pless (Washington University in St.Louis, US)
1569031222	<i>SpotMAC: A Pencil-Beam MAC for Wireless Mesh Networks</i>	Kwan-Wu Chin (University of Wollongong, AU)
1569032789	<i>Channel-Specific Wireless Sensor Network Path Analysis</i>	Lance Doherty (Dust Networks, US)
1569032991	<i>Measurement of Energy Costs of Security in Wireless Sensor Nodes</i>	Chih-Chun Chang (The George Washington University, US); David Nagel (The George Washington University, US); Sead Muftic (George Washington University, US)
1569032997	<i>Bandwidth-adaptive Clustering for Mobile Ad Hoc Networks</i>	Yong Wang (Washington State University, US); Min Kim (Washington State University, US)

Session MA4: Peer-to-Peer and Grid networking (KAHUKU II)

Chair: Dr. Xiang-Gen Xia, University of Delaware, USA

1569042163 Invited Paper	<i>Understanding Peer-level Performance in BitTorrent: A Measurement Study</i>	Amir Rasti (University of Oregon, US); Reza Rejaie (University of Oregon, US)
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1569029383	<i>Enabling Keyword Search and Similarity Search in Small-World-based P2P Systems</i>	Ching-Ju Lin (National Taiwan University, TW); Shou-Chun Tsai (National Taiwan University, TW); Yi-Ting Chang (National Taiwan University, TW); Cheng-Fu Chou (National Taiwan University, TW)
1569032294	<i>Scalable Peer-to-Peer File Sharing with Efficient Complex Query Support</i>	Yan Li (University of Connecticut, US), Jyoti Ahuja (Yahoo, India), Li Lao (Google, US), Jun-Hong Cui (University of Connecticut, US)
1569032971	<i>SCUBE: A DoS-Resistant Distributed Search Protocol</i>	Souvik Ray (Iowa State University, US); Zhao Zhang (Iowa State University, US)
1569033001	<i>Grid Computing on Massively Multi-Users Online Platform</i>	Allen Yen Cheng Yu (Ryerson University, CA); Eddie Law (Ryerson University in Toronto, CA)
1569035671	<i>Network-aware SuperPeers-Peers Geometric Overlay Network</i>	Eng Keong Lua (University of Cambridge, UK); Xiaoming Zhou (Delft University of Technology, NL)

Monday 13:00 – 14:20

Session MP1: Signal Processing for Communications I (KUILIMA I/II)

Chair: Dr. Danilo Gligoroski, Norwegian University of Science and Technology, NO

1569041281 Invited Paper	<i>Adaptive Bit Loading for Coded MIMO-OFDM</i>	Harry Chen (University of British Columbia, CA); Lutz Lampe (University of British Columbia, CA); Robert Schober (University of British Columbia, CA)
1569032831	<i>Serial Sum-product Architecture for Low Density Parity Check Codes</i>	Ruwan Ratnayake (Harvard University, US); Erich Haratsch (Agere Systems, US); Gu-Yeon Wei (Harvard University, US)
1569036799	<i>Performance of a Robust</i>	Asis Nasipuri (University of North

	<i>Filter-based Approach for Contour Detection in Wireless Sensor Networks</i>	Carolina at Charlotte, US); Hadi Alasti (University of North Carolina at Charlotte, US); William Armstrong (The University of North Carolina at Charlotte, US)
1569034271	<i>Error-Correcting Codes Based on Quasigroups</i>	Danilo Gligoroski (Norwegian University of Science and Technology, NO); Smile Markovski (Faculty of Natural Sciences - Skopje, MK); Ljupco Kocarev (University of California San Diego, US)

Session MP2: Computer Architecture for Networking and Communications (KUILIMA III)

Chair: Dr. Biswanath Mukherjee, UC Davis, USA

1569041903 Invited Paper	<i>Lagniappe: Multi-* Programming Made Simple</i>	Taylor Riche (University of Texas at Austin, US); Greg Lavender (University of Texas at Austin, US); Harrick Vin (University of Texas at Austin, US)
1569031313	<i>Challenges for Scalable Networking in a Virtualized Server</i>	Greg Regnier (Intel Corp, US); John Wiegert (Intel, US); Jeff Jackson (Intel, US)
1569032737	<i>Bloom Filter Accelerator for String Matching</i>	Mehrdad Nourani (University of Texas at Dallas, US)
1569034419	<i>Packet Buffer Management for a High-Speed Network Interface Card</i>	Yul Chu (Mississippi State University, US)

Session MP3: Wireless Ad-hoc and Sensor Networks II (SUNSET)

Chair: Dr. Ivan Stojmenovic, University of Ottawa, Canada

1569033011	<i>A Study of Wireless Mesh Network</i>	Youiti Kado (NICT, JP); Azman Lim (National Institute of Information and
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	<i>Routing Protocols for Push-to-Talk Traffic</i>	Communications Technology (NICT), JP); Bing Zhang (National Institute of Information and Communications Technology, JP)
1569036479	<i>Distributed Channel Access Scheduling for Ad Hoc Networks using Virtual MIMO</i>	Xin Wang (University of California, Santa Cruz, US); J.j. Garcia-Luna-Aceves (University of California at Santa Cruz, US)
1569036513	<i>Heartbeat Driven Medium Access Control for Body Sensor Networks</i>	Jindong Tan (Michigan Technological University, US); Huaming Li (Michigan Technological University, US)

Session MP4: Optical Networking I (KAHUKU II)

Chair: Dr. Vinod Vokkarane, University of Massachusetts-Dartmouth, USA

1569043197 Invited Paper	<i>Blocking Analysis of Limited-Reconfigurable Optical Networks</i>	Onur Turkcu (The George Washington University, US); Suresh Subramaniam (The George Washington University, US)
1569043245 Invited Paper	<i>Multi-Resource Manycast over Optical Burst Switched Networks</i>	Qingya She (University of Texas at Dallas, US); Xiaodong Huang (University of Texas at Dallas, US); Nipatjakorn Kannasoot (University of Texas at Dallas, US); Qiong Zhang (Arizona State University, US); Jason Jue (University of Texas-Dallas, US)
1569032105	<i>A Min-Max Optimization Problem on Traffic Grooming in WDM Optical Networks</i>	Yong Wang (Simon Fraser University, CA); Qianping Gu (Simon Fraser University, CA)
1569032313	<i>New Optical VPN Configuration using Wavelength Routers in a WDM-Passive Optical Network</i>	Kimio Oguchi (Seikei University, JP); Kohei Okada (Seikei University, JP); Shohei Terada (Seikei University, JP); Kunio Tojo (Seikei University, JP)

Monday 14:40 – 15:20

Session MP5: Distinguished Position Talk I (KUILIMA I/II)

Chair: Dr. Asis Nasipuri, University of North Carolina, Charlotte, USA

Speaker: Prof. Xiang-Gen Xia, University of Delaware, USA

Title: Space-time coding for MIMO and Cooperative Systems

Session MP6: Distinguished Position Talk II (KUILIMA III)

Chair: Dr. Yiming Ji, University of South Carolina, Beaufort, USA

Speaker: Prof. S.-Y. Robert Li, Chinese University of Hong Kong, China

Title: Network coding - Theory and Applications

Session MP7: Distinguished Position Talk III (SUNSET)

Chair: Dr. Jun-Hong Cui, University of Connecticut, USA

Speaker: Prof. Ivan Stojmenovic, University of Ottawa, Canada

Title: Sensor actuator networking: Merging wireless sensor and ad hoc networks

Session MP8: Distinguished Position Talk IV (KAHUKU II)

Chair: Dr. Vinod Vokkarane, University of Massachusetts-Dartmouth, USA

Speaker: Prof. Biswanath Mukherjee, University of California, Davis, USA

Title: Creating New Services and Service-Level Agreements (SLAs) in Telecom Networks

Monday 15:30 – 16:50

Session MP9: Distinguished Position Talk XI (KUILIMA I/II)

Chair: Byrav Ramamurthy, University of Nebraska-Lincoln, USA

Speaker: Prof. Wu-chun Feng, Virginia Tech, USA

Title: Ethernet vs. Ethernet: Fad or Fashion?

Session MP10: Broadband Wireless Access (KUILIMA III)

Chair: Dr. Rudra Dutta, North Carolina State University, USA

1569026845	<i>Maintaining Routing Tree in IEEE 802.16 Centralized Scheduling Mesh Networks</i>	Yanbin Lu (Institute of Computing Technology, Chinese Academy of Sciences, CN); Guoqing Zhang (Institute of Computing Technology, Chinese Academy of Sciences, CN)
1569031990	<i>Interleaving Techniques for W-CDMA Linear Equalization Receivers</i>	Joao Silva (Lisbon Technical University (IST), PT); Rui Dinis (ISR-IST, Technical University of Lisbon, PT); Nuno Souto (ISCTE/Instituto de Telecomunicações, PT); Francisco Cercas (ISCTE - Instituto Superior das Ciências do Trabalho e da Empresa, PT)
1569032669	<i>Optimal Sniffers Deployment On Wireless Indoor Localization</i>	Yiming Ji (University of South Carolina Beaufort, US); Saad Biaz (Auburn University, US); Shaoen Wu (Auburn University, US); Bing Qi (Auburn University, US)
1569036901	<i>Human Perceivable Authentication: An Economical Solution for Security Associations in Short-Distance Wireless Networking</i>	Men Long (Intel Corporation, US); David Durham (Intel Corporation, US)

Session MP11: Wireless Ad-hoc and Sensor Networks III (SUNSET)

Chair: Dr. Jun-Hong Cui, University of Connecticut, USA

1569036514	<i>Performance Evaluation of The SYN-</i>	Lei Pan (University of Louisiana at Lafayette, US); Hongyi Wu (University
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	<i>MAC Protocol in Multihop Wireless Networks</i>	of Louisiana at Lafayette, US)
1569036615	<i>Energy-Efficient Fault-Tolerant Mechanism for Clustered Wireless Sensor Networks</i>	Lai Yongxuan (Renmin University of China, CN); Chen Chen (Renmin University of China, CN)
1569036753	<i>Enhanced Synchronized Medium Access Control Protocol for Wireless Ad Hoc Network</i>	Xiaojun Cao (Rochester Institute of Technology, US); Shenbo Liu (Rochester Institute of Technology, US); Lei Pan (University of Louisiana at Lafayette, US); Hongyi Wu (University of Louisiana at Lafayette, US)
1569036889	<i>Evaluating Mobile Ad Hoc Networks: A Performance Index and Statistical Model</i>	Ikhlas Ajbar (University of Louisiana at Lafayette, US); Dmitri Perkins (University of Louisiana at Lafayette, US)

Session MP12: Optical Networking II (KAHUKU II)

Chair: Dr. Galen Sasaki, University of Hawaii, USA

1569032339	<i>Protected Working Lightpath Envelope: a New Paradigm for Dynamic Survivable Routing</i>	Rong He (National University of Singapore, SG); Kee Chaing Chua (National University of Singapore, SG); Mohan Gurusamy (National University of Singapore, SG)
1569032439	<i>An Approximation Algorithm for Provisioning of Survivable Multicast Sessions in WDM Networks</i>	Hongbin Luo (University of Electronic Science and Technology of China, CN); Le Min Li (University of Electronic Science and Technology of China, CN)
1569032580	<i>New Techniques for Efficient Traffic Grooming in WDM Mesh Networks</i>	Arunita Jaekel (School of Computer Science, University of Windsor, CA); Ying Chen (University of Windsor, CA); Ataul Bari (School of Computer Science, University of Windsor, CA); Subir Bandyopadhyay (School of Computer Science, University of Windsor, CA)

1569032893	<i>An overlay approach for enabling access to dynamically shared backbone GMPLS networks</i>	Xiudian Fang (University of Virginia, US); Malathi Veeraraghavan (University of Virginia, US); Mark McGinley (University of Virginia, US); Robert Gisiger (University of Virginia, US)
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Monday 17:00 – 18:00: Panel Session (KUILIMA I/II)

Chair: Dr. Xi Zhang, Texas A&M University, USA

Title: Cross-Layer Optimized Wireless Networks and Multimedia Communications

Panel lists:

Dr. Vijay K. Bhargava, University of British Columbia, Canada (IEEE Fellow)

Dr. Aggelos Katsaggelos, Northwestern University, USA (IEEE Fellow)

TBA (2 more experts)

Conference Reception: Monday, August 13, 2007, 18:30 – 20:00 (KAHUKU Terrace)

Tuesday, August 14, 2007

8:00 – 9:10 Keynote II: Research Challenges in Cognitive Radio Networks
(KUILIMA I/II)

Keynote Speaker: Dr. Vijay K. Bhargava, University of British Columbia, Canada

Chair: Dr. Xi Zhang, Texas A&M University, USA

Tuesday 9:30 – 11:30

Session TA1: QoS control and traffic modeling (KUILIMA I/II)

Chair: Dr. Qusay H. Mahmoud, University of Guelph, Canada

1569041576 Invited paper	<i>Optimal Packet Allocation with Airtime Constraint for Multi- Access Links</i>	Jong-Ok Kim (ATR, JP)
1569043448 Invited Paper	<i>A Bio-Inspired Robust Routing Protocol for Mobile Ad Hoc Networks</i>	Kenji Leibnitz (Osaka University, JP); Naoki Wakamiya (Osaka University, JP); Masayuki Murata (Osaka University, JP)
1569032179	<i>Efficient Timeout Checking Mechanism for Traffic Control</i>	Noriaki Kamiyama (NTT Service Integration Laboratories, JP); Tatsuya Mori (NTT Service Integration Laboratories, JP); Ryoichi Kawahara (NTT Service Integration Laboratories, JP); Eng Keong Lua (University of Cambridge, UK)
1569032533	<i>Zero Latency Queueing System Based on Deficit Round Robin</i>	Byoung Chul Kim (Samsung electronics, KR)
1569032879	<i>Protection Mechanisms for Well- behaved TCP Flows from Tampered-TCP at Edge Routers</i>	Junichi Maruyama (University of Osaka, JP)
1569032938	<i>Decentralized Learning</i>	Patrick Maillé (GET/ENST Bretagne,

	<i>for Pricing a RED Buffer</i>	FR); Bruno Tuffin (IRISA, FR); Yiping Xing (Stevens Institute of Technology, US); Rajarathnam Chandramouli (Stevens Institute of Technology, US)
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Session TA2: Emerging networking techniques and standards (KUILIMA III)

Chair: Dr. Xingang Guo, Intel, USA

1569042149 Invited Paper	<i>Multi-channel Jamming Attacks using Cognitive Radios</i>	Ashwin Sampath (UCSB, US); Hui Dai (University of California Santa Barbara, US); Haitao Zheng (Univ. of California, Santa Barbara, US); Ben Zhao (University of California at Santa Barbara, US)
1569042445 Invited Paper	<i>Multi-Radio Coexistence: Challenges and Opportunities</i>	Jing Zhu (Intel, US); Alan Waltho (Intel Corporation, US); Xue Yang (Intel Corporation, US); Xingang Guo (Intel Corp., US)
1569032661	<i>Pipelined Cyclic Redundancy Check (CRC) Calculation</i>	Mathys Walma (Intel Corporation, US)
1569036773	<i>Reduce IP Address Fragmentation through Allocation</i>	Mei Wang (Cisco Systems, US); Larry Dunn (Cisco Systems, US); Wei Mao (CNNIC, CN); Tao Chen (CNNIC, CN)
1569036897	<i>Statistical Bandwidth Sharing in End-to-End Connectivity Management over Bandwidth-Provisioned Networks</i>	Kaliappa Ravindran (City University of New York, US); Mohammad Rabby (City University of New York, US)
1569037749	<i>On the Bounded-Delay Minimum-Cost Path Problem of Quality-of-Service Routing</i>	H. k. Dai (Oklahoma State University, US); Y. Du (Oklahoma State University, US)

Session TA3: Wireless Communications (SUNSET)

Chair: Dr. Chang Wen Chen, Florida Institute of Technology, USA

1569042327 Invited Paper	<i>On Short Forward Error-Correcting Codes for Wireless Communication Systems</i>	Sheng Tong (Xidian University, CN); Dengsheng Lin (University of Electronic Science and Technology, CN); Aleksandar Kavcic (University of Hawaii, US); Bao-Ming Bai (Xidian University, CN); Li Ping (City University of Hong Kong, HK)
1569042123 Invited Paper	<i>Power Control and Maximum Flows of Wireless Lattice Networks</i>	Wing Wong (Chinese University of Hong Kong, CN)
1569031992	<i>An Efficient Detection Technique for SC-FDE Systems with Multiple Packet Collisions</i>	Rui Dinis (ISR-IST, Technical University of Lisbon, PT); Paulo Montezuma (FCT-UNL, PT)
1569031994	<i>Impact of Imperfect Channel Estimation on the Performance of M-QAM Hierarchical Constellations with Diversity</i>	Nuno Souto (Instituto Superior Técnico, PT); Rui Dinis (CAPS-IST, PT); Joao Silva (Lisbon Technical University (IST), PT); Francisco Cercas (ISCTE - Instituto Superior das Ciências do Trabalho e da Empresa, PT)
1569032407	<i>Utility Fair Resource Allocation Based on Game Theory in OFDM Systems</i>	Tiankui Zhang (Beijing University of Posts and Telecommunications, CN)
1569032471	<i>A new parameter for channel identification in UWB indoor environments</i>	Lorenzo Mucchi (University of Florence, IT)

Session TA4: Best Paper Competition (KAHUKU II)

Chair: Dr. Chin-Tser Huang, University of South Carolina, USA

1569032778	<i>Fair Efficiency, or Low Average Delay without Starvation</i>	Sergey Gorinsky (Washington University in St. Louis, US); Christoph Jechlitschek (Washington University in St. Louis, US);
1569036651	<i>Relay-enhanced Cellular</i>	Chung Kang (Korea University, KR)

	<i>Performance of OFDMA-TDD System for Mobile Wireless Broadband Services</i>	
1569032957	<i>Utility-Based Routing in Communication Networks with Unstable Links</i>	Mingming Lu (Florida Atlantic University, US); Jie Wu (Florida Atlantic University and National Science Foundation, US)
1569033037	<i>Attack Containment Framework for Large-Scale Critical Infrastructures</i>	Hoang Nguyen (University of Illinois at Urbana-Champaign, US); Klara Nahrstedt (University of Illinois at Urbana-Champaign, US)
1569032237	<i>On the Power and Rate Control in IEEE 802.11 WLANs -- A Game Theoretical Approach</i>	Lin Chen (ENST, FR); Jean Leneutre (Ecole Nationale Supérieure Des Télécommunications, FR)

Tuesday 13:00 – 14:20

Session TP1: Multimedia Communications (KUILIMA I/II)

Chair: Dr. Zhu Li, Motorola Labs, USA

1569033183 Invited Paper	<i>Optimization Models for Streaming in Multihop Wireless Networks</i>	Zongpeng Li (University of Calgary, CA); Baochun Li (University of Toronto, CA); Mea Wang (University of Toronto, CA)
1569044727 Invited Paper	<i>Analysis of Retry Limit for Supporting VoIP in IEEE 802.11e EDCA Wireless LANs</i>	ByungJoon Oh (Florida Institute of Technology, US); Chang Wen Chen (Florida Institute of Technology, US)
1569033015	<i>ICA-based Noise Reduction for Mobile Phone Speech Communication</i>	ZHipeng Zhang (Research Laboratories, NTT DoCoMo, JP); Minoru Etoh (NTT DoCoMo, Inc., JP)
1569035613	<i>Channel-Adaptive Multiple Description Coding For Wireless Video Streaming</i>	Joohee Kim (Inha University, KR); Ji-Cheol Hong (Inha University, KR)

Session TP2: Pervasive computing and mobile networking (KUILIMA III)

Chair: Dr. Ben Y. Zhao, University of California, Santa Barbara, USA

1569042660 Invited Paper	<i>k-hop Backbone Formation and Cluster Maintenance in Ad Hoc Networks</i>	Paolo Bellavista (Università degli Studi di Bologna, IT); Eugenio Magistretti (University of Bologna, IT)
1569041909 Invited paper	<i>Localization of Wireless Sensor Nodes Using Proximity Information</i>	Sajal Das (The UniversityTexas at Arlington, US); Ratan Ghosh (Indian Institute of Technology, Kanpur, IN); Piyush Agrawal (IIT Kanpur, IN)
1569032835	<i>Multi-Server Loss System with T-Limited Service for Traffic Control in Information Networks</i>	Yoshitaka Takahashi (Waseda University, JP); Yoshiaki Shikata (Shobi University, JP); Kazunori Okada (National Institute of Information and Communications Technology, JP); Naohisa Komatsu (Waseda University, JP)
1569032965	<i>A Voronoi Approach for Scalable and Robust DV-Hop Localization System for Sensor Networks</i>	Azzedine Boukerche (Univ. of Ottawa, CA); Horacio Oliveira (Univ. of Ottawa, CA); Eduardo Nakamura (FUCAPI - Research and Technological Innovation Center, BR); Antonio A.F. Loureiro (Federal University of Minas Gerais, BR)

Session TP3: Optical Networking III (SUNSET)

Chair: Dr. Vincent W. S. Chan, MIT

1569033041	<i>Signaling Transport Options in GMPLS Networks: In-band or Out-of-band</i>	Tao Li (University of Virginia, US); Malathi Veeraraghavan (University of Virginia, US)
1569036581	<i>Enhancing Robustness Under Dual-Link Failure</i>	Sandeep Ahuja (ECE Department university of Arizona, US); Srinivasan Ramasubramanian (The University of Arizona, US)
1569036670	<i>TCP-ENG: Dynamic Explicit Congestion</i>	Basem Shihada (University of Waterloo, CA); Pin-Han Ho (University

	<i>Notification for TCP over OBS Networks</i>	of Waterloo, CA); Qiong Zhang (Arizona State University, US)
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Session TP4: Internet Services (KAHUKU II)

Chair: Dr. Hideki Tode, Osaka University, Japan

1569036843	<i>Large-Scale QoS-Aware Service-Oriented Networking with a Clustering-Based Approach</i>	Jingwen Jin (Intel, US); Klara Nahrstedt (University of Illinois at Urbana-Champaign, US)
1569032765	<i>QoS-based Discovery and Ranking of Web Services</i>	Eyhab Al-Masri (University of Guelph, CA); Qusay Mahmoud (University of Guelph, CA)
1569042593 Invited Paper	<i>WS-Advisor: A Task Memory for Service</i>	Rosanna Bova (University of Lyon 1, FR); Hye-Young Paik (University of New South Wales, AU); Salima Hassas (University of Lyon 1, FR); Salima Benbernou (Lyon 1 University, FR); Boualem Benatallah (University of New South Wales, AU)
1569032739 Invited Paper	<i>Applying Wavelet Denoising to Improve TCP Throughput in AQM queues with Existence of Unresponsive Traffic</i>	Yi Pan (University of California at Irvine, US); Wei Tsai (University of California at Irvine, US); Tatsuya Suda (University of California, Irvine, US)

Tuesday 14:40 – 15:20

Session TP5: Distinguished Position Talk V (KUILIMA I/II)

Chair: Dr. Zhu Li, Motorola Labs, USA

Speaker: Prof. Chang Wen Chen, Florida Institute of Technology, USA

Title: Recent Advances in Video Adaptation for Mobile Device Access

Session TP6: Distinguished Position Talk VI (KUILIMA III)

Chair: Dr. Ben Y. Zhao, University of California, Santa Barbara, USA

Speaker: Dr. Sajal Das, University of Texas at Arlington, USA

Title: Inhabitant Activity Recognition and Context Modeling in Smart Environments

Session TP7: Distinguished Position Talk VII (SUNSET)

Chair: Dr. Galen Sasaki, University of Hawaii, USA

Speaker: Prof. Vincent W.S. Chan, MIT, USA

Title: Some Interesting Research Problems in Optical Networks

Session TP8: Distinguished Position Talk VIII (KAHUKU II)

Chair: Dr. Naoki Wakamiya, Osaka University, Japan

Speaker: Dr. Roch Glitho, Ericsson, Canada

Title: Multimedia Conferencing in mobile ad hoc networks: Challenges and early approaches

Tuesday 15:30 – 16:50

Session TP9: Broadband networking and protocols (KUILIMA I/II)

Chair: Dr. Baek-Young Choi, University of Missouri, Kansas City, USA

1569032363	<i>Design and Empirical Evaluation of Control Scheme for End-to-End Delay Stabilization and Packet Loss Improvement in Broadband IP Network</i>	Dai Yamamoto (Osaka University, JP); Hideki Tode (Osaka University, JP); Toshihiro Masaki (Osaka University, JP); Koso Murakami (Osaka University, JP)
1569036813	<i>Load-Balanced Routing in</i>	Sudharsan Rangarajan (University

	<i>Ad hoc Networks</i>	of California, Santa Cruz, US); J.j. Garcia-Luna-Aceves (University of California at Santa Cruz, US)
1569036781	<i>Network-Aware State Update in Large Scale Mobile Games</i>	Yang Yu (Motorola Labs, US); Zhu Li (Motorola Labs, US); Weidong Shi (Georgia Institute of Technology, US); Yi-Chiun Chen (Motorola, US); Hua Xu (Motorola, Inc., US)
1569032979	<i>Packet Scheduling with Buffer Management for Fair Bandwidth Sharing and Delay Differentiation</i>	Dennis Ippoliti (University of Colorado at Colorado Springs, US); Xiaobo Zhou (University of Colorado at Colorado Springs, US); Liqiang Zhang (Indiana University South Bend, US)

Session TP10: Pervasive computing and mobile networking (KUILIMA III)

Chair: Dr. Sajal Das, University of Texas at Arlington, USA

1569036277	<i>Joint Modeling of Mobility and Communication in a V2V Network for Congestion Amelioration</i>	Pritesh Patwa (North Carolina State University, US); Rudra Dutta (North Carolina State University, US)
1569036649	<i>On the Suitability of Framed Slotted Aloha based RFID Anti-collision Protocols for use in RFID-Enhanced WSNs</i>	Dheeraj Klair (University of Wollongong, AU); Kwan-Wu Chin (University of Wollongong, AU); Raad Raad (University of Wollongong,, AU)
1569036914	<i>Packet Scheduling for Scalable Video Streaming over Lossy Networks</i>	Ehsan Maani (Northwestern university, US); Yijing Luo (Motorola, US); Peshala Pahalawatta (Northwestern University, US); Aggelos K. Katsaggelos (Northwestern University, US)

Session TP11: Network Security I (SUNSET)

Chair: Dr. Tilman Wolf, University of Massachusetts, Amherst, USA

1569032963	<i>SIP Vulnerabilities and Anti-Spam Mechanisms Assessment</i>	Giannis Marias (Athens University Economics and Business, GR); Stelios Dritsas (Athens University of Economics and Business, GR); Marianthi Theoharidou (Dept. of Informatics, Athens University of Economics and Business, Greece, GR); John Mallios (Dept. of Informatics, Athens University of Economics and Business, Greece, GR); Dimitris Gritzalis (Dept. of Informatics, Athens University of Economics and Business, Greece, GR)
1569032995	<i>Fates: A Granular Approach to Real-Time Anomaly Detection</i>	Jeff Janies (University of South Carolina, US); Chin-Tser Huang (University of South Carolina, US)
1569033003	<i>Evaluation of Security Protocols for the Session Initiation Protocol</i>	Hyoung-Kee Choi (Sungkyunkwan University, KR); Eun-Chul Cha (SungKyunKwan University, KR)

Session TP12: Network Algorithm and Performance Evaluation (KAHUKU II)

Chair: Dr. Naoki Wakamiya, Osaka University, Japan

1569031211	<i>On IP Traffic Matrix Estimation</i>	Liansheng Tan (The Australian National University, AU); Xiangjun Wang (Central China Normal University, CN)
1569032391	<i>Greedy Face Routing with Face ID Support</i>	Shao Tao (National University of Singapore, SG); Akkihebbal L. Ananda (National University of Singapore, SG); Mun Choon Chan (National University of Singapore, SG)
1569032945	<i>Ethernet Topology for Networks with Incomplete Information</i>	Hassan Gobjuka (Kent State University, US); Yuri Breitbart (Kent State University, US)

Tuesday 17:00 – 18:00: Panel Session (KUILIMA I/II)

Chair: Dr. Zhu Li, Motorola Labs, USA

Title: Convergence of Communication Network with Media and Social Interactions: Technical Challenges and Business Opportunities

Panel lists:

Dr. Fred Kitson, Motorola Labs, USA (Vice President)
Dr. Minoru Etoh, NTT DoCoMo Research Laboratories, Japan (Deputy Managing Director)
Dr. Klara Nahrstedt, MONET Research Group, UIUC, USA (Director)
Dr. Changwen Chen, Wireless Center of Excellence, FIT, USA (Director, IEEE Fellow)

Conference Dinner Banquet/Awards: August 14, 2007, 18:30 – 21:00 (KAHUKU Terrace)

Wednesday, August 15, 2007

8:00 – 9:00 Keynote III: Challenges and Opportunities in Video Transmission (KUILIMA I/II)

Keynote Speaker: Dr. Aggelos K. Katsaggelos, Northwestern University, USA

Chair: Dr. Song Ci, University of Nebraska, Lincoln, USA

Wednesday 9:30 – 11:30

Session WA1: Network Security II (KUILIMA I/II)

Chair: Dr. K.P. Subbalakshmi, Stevens Institute of Technology, USA

1569041969 Invited Paper	<i>A Proactive Test Based Differentiation Technique to Mitigate Low Rate DoS Attacks</i>	Amey Shevtekar (New Jersey Institute of Technology, US); Nirwan Ansari (NJIT, US)
1569036233	<i>Safeguarding Mutable Fields in AODV Route Discovery Process</i>	Kulasekaran Sivakumar (Mississippi State University, US); Mahalingam Ramkumar (Mississippi State University, US)
1569036657	<i>Containing Hitlist-Based Worms with Polymorphic Signatures</i>	Theodor Richardson (Towson University, US); Chin-Tser Huang (University of South Carolina, US)
1569044767 Invited Paper	<i>Economics of Security: Research Challenges</i>	Rajarathnam Chandramouli (Stevens Institute of Technology, US)

1569036803	<i>Interplay of Security and Reliability using Non-Uniform Checkpoints</i>	Xiao Qin (New Mexico Institute of Mining and Technology, US); Kiranmai Bellam (New Mexico Institute of Mining and Technology, US); Mais Nijim (New Mexico Institute of Mining and Technology, US); Ziliang Zong (New Mexico Institute of Mining and Technology, US); Xiaojun Ruan (New Mexico Tech, US); Raghava Vudata
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		(New Mexico Tech, US)
1569034509	<i>Exploring Load-Balance to Dispatch Mobile Sensors in Wireless Sensor Networks</i>	Min-Hsien Chang (Chiao-Tung University, TW); You-Chiun Wang (National Chiao-Tung University, TW); Wen-Chih Peng (National Chiao Tung University, TW); Yu-Chee Tseng (National Chiao-Tung University, TW)

Session WA2: Network Algorithm and Performance Evaluation (KUILIMA III)

Chair: Dr. Sergey Gorinsky, Washington University, USA

1569046245 Invited Paper	<i>Outage Analysis of a University Campus Network</i>	Baek-Young Choi, Sejun Song, George Koffler, Deep Medhi (University of Missouri, Kansas City, US)
1569033281	<i>Diffusion Approximations for the GI/G/c/K queue</i>	Akira Takahashi (Waseda University, JP); Yoshitaka Takahashi (Waseda University, JP); Shigeru Kaneda (NTT DoCoMo, Inc., JP); Noriteru Shinagawa (NTT DoCoMo, Inc., JP)
1569035311	<i>C3P: A Cooperant Congestion Control Protocol in High Bandwidth-Delay Product Networks</i>	Jianxin Wang (Central South University, CN); Hao Gong (Central South University, CN); Jianer Chen (Texas A&M University, US)
1569035687	<i>Efficient Call Admission Control for MPEG-4 Wireless Videoconference Traffic</i>	Polychronis Koutsakis (McMaster University, CA)
1569037187	<i>SHM: Scalable and Backbone Topology-Aware Hybrid Multicast</i>	Shaofei Lu (Hunan University, CN); Guanzhong Yang (Hunan University, CN); Jianxin Wang (Central South University, CN); Chao Guo (Hunan University, CN)
1569033005	<i>Coordinate-Based Routing for Overlay Networks</i>	Vasileios Pappas (IBM Research, US); Volker Hilt (Bell Laboratories / Lucent Technologies, US); Markus

Hofmann (Bell Labs/Lucent Technologies, US)

Session WA3: Parallel and Distributed Computing (SUNSET)

Chair: Dr. Debanjan Saha, IBM Research, USA

1569033567 Invited Paper	<i>Use of Dependency Information for Memory Optimizations in Distributed Streaming Applications</i>	Nissim Harel (Georgia Institute of Technology, US); Hasnain Mandviwala (Georgia Institute of Technology, US); Umakishore Ramachandran (Georgia Institute of Technology, US); Kathleen Knobe (HP Labs - Cambridge Research Laboratory, US)
1569033413	<i>On Improving the Reliability of Packet Delivery in Dense Wireless Sensor Networks</i>	Junsuk Shin (Georgia Institute of Technology, US); Umakishore Ramachandran (Georgia Institute of Technology, US); Mostafa Ammar (Georgia Institute of Technology, US)
1569035173	<i>An Error-aware and Energy Efficient Routing Protocol in MANETS</i>	Liansheng Tan (The Australian National University, AU); Sammy Chan (City University of Hong Kong, HK)
1569036499	<i>A Fast Delivery Protocol for Total Order Broadcasting</i>	Li Ou (Tennessee Technological University, US); Xubin He (Tennessee Technological University, US); Christian Engelmann (Oak Ridge National Laboratory, US); Stephen Scott (Oak Ridge National Laboratory, US)
1569036811	<i>An Energy-Efficient Scheduling Algorithm Using Dynamic Voltage Scaling</i>	Xiao Qin (New Mexico Institute of Mining and Technology, US); Xiaojun Ruan (New Mexico Tech, US); Mais Nijim (New Mexico Institute of Mining and Technology, US); Ziliang Zong (New Mexico Institute of Mining and Technology, US); Kiranmai Bellam (New Mexico Institute of Mining and Technology, US)

1569036869	<i>Motivating and Modeling SIP Offload</i>	Jia Zou (Tsinghua University, CN); Yiqi Dai (Tsinghua University, CN)
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Session WA4: General Track (SUNSET)

Chair: Dr. Arunita Jaekel, University of Windsor, Canada

1569032296	<i>An FEC-based Reliable Data Transport Protocol for Underwater Sensor Networks</i>	Peng Xie (University of Connecticut, US), Jun-Hong Cui (University of Connecticut, US)
1569032705	<i>Design of a Network Service Architecture</i>	Tilman Wolf (University of Massachusetts, US); Sivakumar Ganapathy (University of Massachusetts, US)
1569032845	<i>Node-Replacement Policies to Maintain Threshold-Coverage in Wireless Sensor Networks</i>	Sachin Parikh (University of Massachusetts Dartmouth, US); Vinod Vokkarane (University of Massachusetts Dartmouth, US); Liudong Xing (University of Massachusetts Dartmouth, US); Dayalan Kasilingam (University of Massachusetts Dartmouth, US)
1569036343	<i>IEEE 802.11e EDCA QoS Provisioning with Dynamic Fuzzy Control and Cross-Layer Interface</i>	Chao-Lieh Chen (Kun-Shan University, TW)
1569037135	<i>Ringed Filters for Peer-to-Peer Keyword Searching</i>	Yuichi Sei (University of Tokyo, JP); Shinichi Honiden (University of Tokyo, National Institute of Informatics, JP)
1569040867 Invited Paper	<i>Provisioning Link Layer Proportional Service Differentiation in Wireless Ad Hoc Networks with MIMO links</i>	Amrit Kumar (University of Massachusetts Amherst, US); Aura Ganz (University of Massachusetts at Amherst, US)

Wednesday 11:40 – 12:20

Session WP1: Distinguished Position Talk IX (KUILIMA I/II)

Chair: Dr. K.P. Subbalakshmi, Stevens Institute of Technology, USA

Speaker: Prof. Nirwan Ansari, New Jersey Institute of Technology, USA

Title: Tracing and mitigating distributed denial of service attacks

Session WP2: Distinguished Position Talk X (KUILIMA III)

Chair: Dr. Tao Xie, San Diego State University, USA

Speaker: Dr. Zhen Liu, IBM Research, USA

Title: Stream processing networks

Session WP3: Meet the ICCCN 2008 Chairs

(Informal discussions for improving the future ICCCN conferences)

Session WP4: Distinguished Position Talk XII (KAHUKU II)

Chair: Dr. Arunita Jaekel, University of Windsor, Canada

Speaker: Dan Rubenstein, Columbia University, USA

Title: Network Resilience: Using One's Neighbors Wisely in Cooperative Networks

Wednesday 13:40 – 14:40

Session WP5: Distinguished Position Talk XIII (KUILIMA I/II)

Chair: Dr. Jorge A. Cobb, University of Texas at Dallas, USA

Speaker: Dr. Debanjan Saha, IBM Research, USA

Title: Internet Applications and Services for Digital Communities

Session WP6: NSF Founding Forum (KUILIMA III)

Chair: Dr. E. K. Park, University of Missouri, USA

Speaker: Dr. Jie Wu, Program Director, NSF

Session WP7: Workshop on Advanced Networking I: Network Security I (SUNSET)

Chair: Dr. Nirwan Ansari, NJIT, USA

1569049659	<i>A New Network Layer for Mobile Ad Hoc Wireless Networks Based on Assignment Router Identity Protocol</i>	Chaorong Peng (Florida Institute of Technology, US); Chang Wen Chen (Florida Institute of Technology, US)
1569049529	<i>Generalized Aho-Corasick Algorithm for Signature Based Anti-Virus Applications</i>	Tsern-Huei Lee (National Chiao Tung University, TW)

Session WP8: Workshop on Advanced Networking II: Network Security II (KAHUKU II)

Chair: Dr. Zhen Liu, IBM, USA

1569049661	<i>A Heuristic DDoS Flooding Attack Detection Mechanism Analyses based on the Relationship between Input and Output Traffic Volumes</i>	Zhang Fengxiang (The Graduate University for Advanced Studies, Japan, JP)
1569049729	<i>NEKAP: Intruder Resilient and Energy Efficient Key Establishment in Sensor Networks</i>	Sergio Oliveira (Federal University of Minas Gerais, BR); José-Marcos Nogueira (Federal University of Minas Gerais, BR); Wong Hao Chi (Federal University of Minas Gerais, BR)

1569049827	<i>Travelling without Moving: 802.11 Access Points backed by Secure NETLMM</i>	Julien Laganier (NTT DoCoMo Euro-Labs, DE)
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Wednesday 15:00 – 16:00: Panel Session (KUILIMA I/II)

Chair: Dr. Khaled El-Maleh, Qualcomm Inc, USA

Title: Enhanced Multimedia User Experience in 4G Networks

Panel lists:

- Mr. Atul Suri, Qualcomm, USA (Director)
- Mr. Toshio Miki, NTT DoCoMo, Japan (Managing Director)
- Dr. Sujit Dey, Ortiva Wireless, USA (Founder and CTO)
- Mr. Ziad Asghar, Texas Instruments, USA (Operator and Strategy
Manager, CTO Office)

Wednesday 16:20 – 18:00

Session WP9: Workshop on Advanced Networking III: Multimedia Processing
and Communications (KUILIMA I/II)

Chair: Dr. Chia-Wen Lin, National Tsing Hua University, Taiwan

1569049519	<i>Reduction of Frame Memory Accesses and Motion Estimation Computation in MPEG-4 Video Encoder</i>	Wei-Cheng Lin (National Cheng- Kung University, TW); Chung-Ho Chen (National Cheng-Kung University, TW)
1569049653	<i>MPEG Video Bit-Rate Shaping Technique Using Smooth-Transcoding Algorithm</i>	I Gusti Bagus Baskara Nugraha (The University of Electro- Communications, JP); Hiroyoshi Morita (University of Electro- Communications, JP)
1569049657	<i>Water Level Detection from Video with FIR filtering</i>	Masahiro Iwahashi (Nagaoka University of Technology, JP); Sakol Udomsiri (Nagaoka University of Technology, JP)

1569049581	<i>Facts of Life</i>	Angela Isabel Barbero Diez (University of Valladolid, ES); Oyvind Ytrehus (University of Bergen, NO)
1569049867	<i>A Novel Disk Layout Optimization for Networked Storage Systems</i>	Tao Xie (San Diego State University, US)

Session WP10: Workshop on Advanced Networking IV: Wireless Ad-hoc and Sensor Networks (KUILIMA III)

Chair: Dr. Tarek Abdelzaher, UIUC, USA

1569049624	<i>Layered Clustering Communication Protocol for Wireless Sensor Networks</i>	Yong Wang (University of Nebraska-Lincoln, US); Byrav Ramamurthy (University of Nebraska-Lincoln, US)
1569049706	<i>A Network flow based Integral Optimal Algorithm for Lexicographic Maximum Lifetime Routing in Wireless Sensor Networks</i>	Maulin Patel (Philips Research N. A., US); Subbarayan Venkatesan (University of Texas at Dallas, US); Ramaswamy Chandrasekaran (University of Texas at Dallas, US)
1569049721	<i>Broadcast Collision Avoidance in Wireless Packet Networks</i>	Jun Peng (UTPA, US)
1569049745	<i>Mesh-Enhanced Vehicular Wireless Networks</i>	Niranjan Potnis (Florida State University, US); Atulya Mahajan (Florida State University, US); Kartik Gopalan (State University of New York at Binghamton, US); An-I Andy Wang (Florida State University, US)
1569049781	<i>A SpaceTime Oriented Macro Programming Paradigm for Push-Pull Hybrid Sensor Networking</i>	Hiroshi Wada (University of Massachusetts, Boston, US); Pruet Boonma (University of Massachusetts, Boston, US); Junichi Suzuki (University of Massachusetts, Boston, US)

1569049815	<i>Sensitivity Study of Sensors' Coverage within Wireless Sensor Networks</i>	Sami Habib (Kuwait University, KW); Maytham Safar (Kuwait University, KW)
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Session WP11: Workshop on Advanced Networking V: Wireless Communications (SUNSET)

Chair: Dr. Lin Guan, Loughborough University, UK

1569049575	<i>Helper Node Trajectory Control for Connection Assurance in Proactive Mobile Wireless Networks</i>	Lillian Dai (Massachusetts Institute of Technology, US); Vincent Chan (Massachusetts Institute of Technology, US)
1569049631	<i>An Efficient Multi-Mode Channel Tracking Scheme under Different Velocities in OFDM Systems</i>	Yu-Tao Hsieh (Industrial Technology Research Institute, TW); Pangan Ting (Tsing Hua University, TW)
1569049787	<i>A Performance Evaluation of Vertical Handoff Scheme between Mobile -WiMax and Cellular Networks</i>	SeongSoo Park (SK Telecom, KR)
1569050135	<i>Quantitative Dynamic Interdependency Measure and Significance Analysis for Cross-Layer Design under Uncertainty</i>	Song Ci (University of Nebraska-Lincoln, US), Haifeng Guo, (University of Nebraska, Omaha, US)

Session WP12: Workshop on Advanced Networking VI: Network Algorithms and Systems (KAHUKU II)

Chair: Dr. Dan S. Rubenstein, Columbia University, USA

1569049555	<i>Loop-Free Link-State Routing</i>	Pierre Fransson (Luleå University of Technology, SE)
1569049611	<i>Delay Analysis of Combined Input-Crosspoint Queueing Switches</i>	Ge Nong (Sun Yat-Sen University, CN); Ning Situ (University of Houston, US); Mounir Hamdi (CS Dept., HKUST, KLN, Hong Kong, CN)

1569049679	<i>Adaptive Performance Control of Internet-based Grids in a Dynamic Environment</i>	Paolo Vercesi (University of Trieste, IT); Alberto Bartoli (Univ. of Trieste, IT)
1569049682	<i>THON: A Tessellation based Hierarchical Overlay Network for DGET Grid Middleware</i>	Benoit Hudzia (University college Dublin, IE)
1569049873	<i>Work-Conserving Fair-Aggregation Across Multiple Core Networks</i>	Jorge Cobb (University of Texas at Dallas, US); Zhe Xu (The University of Texas Dallas, US)

Thursday, August 16, 2007

8:30 – 9: 30 **Keynote IV, KUILIMA I/II**

Quality Control: A Key to Stress-Resilient Internet Services

Keynote Speaker: Dr. Cheng-Zhong Xu, Wayne State University, US

Chair: Dr. Xiaobo Zhou, University of Colorado at Colorado Springs, USA

9:30 – 9: 40 Workshops Opening Remarks

9:40 – 10:00 Coffee Break

International Workshop on Wireless Mesh and Ad Hoc Networks (WiMAN) KUILIMA I/II & KUILIMA III, Thursday

10:00 - 12:00

**Session WiMAN I: Routing, Scheduling, and Channel Assignment (I),
KUILIMA I/II**

Chair: Dr. Frank Reichenbach (University of Rostock, Germany)

Distributed Channel Allocation In Multi-Radio Wireless Mesh Networks

Jeroen Avonts (University of Antwerp, Belgium); Nik Van den Wijngaert (University of Antwerp, Belgium); Chris Blondia (University of Antwerp, Belgium)

Resource Planning and Packet Forwarding for Next-generation Multi-hop Wireless Mesh Networks

Ting-Yu Lin (University of Illinois at Urbana-Champaign, USA); Gary Fan (National Chiao-Tung University, Taiwan)

Routing in Heterogeneous Wireless Ad Hoc Networks

Sivaram Cheekiralla (Massachusetts Institute of Technology, USA); Daniel Engels (MIT Auto-ID Center, USA)

Efficient Routing Tree Construction Algorithms for Multi-Channel WiMax Networks

Mohammad nekoui (university of tehran, Iran); Alireza Ghiamatyoun (University of Tehran, Iran); Said Nader-Esfahani (University of Tehran, Iran); Mehdi Soltan (Stanford University, USA)

The Impact of Interference in a Distributed Base Station Scheme Managed by an Agent System

Philippe Leroux (Université Laval, Canada); Sebastien Roy (Laval University, Canada); Jean-Yves Chouinard (Laval University, Canada)

A Mobility Management and Routing Protocol using Tree Architecture for Internet Connectivity

Hoon Oh, Phan Anh Tan (University of Ulsan, Korea)

10:00 – 12:00

Session WiMAN II: MAC Protocols, KUILIMA III

Chair: Dr. Alistair Munro (University of Bristol, United Kingdom)

MAC-ASA Protocol for Wireless Mesh Networks

Roberto Santamaria (Illinois Institute of Technology, USA); Olivier Bourdeau (Illinois Institute of Technology, USA); Tricha Anjali (Illinois Institute of Technology, USA)

Performance of 802.11b/g in the Interference Limited Regime

Vinay Sridhara (University of Delaware, USA); Hweechul Shin (University of Delaware, USA); Stephan Bohacek (University of Delaware, USA)

A tradeoff between power efficiency and scheduling updating responsiveness in a TDMA paradigm

Valeria Loscrì (University of Calabria, Italy)

Providing Quality of Service for Mesh Networks Using Link Delay Measurements

Weverton Cordeiro (Federal University of Rio Grande do Sul, Brazil); Waldir Moreira (Federal University of Pará, Brazil); Elisangela Aguiar (Universidade Federal do Para, Brazil); Antonio Jorge Abelém (UFPA - Federal University of Pará, Brazil); Michael Stanton (UFF - Universidade Federal Fluminense, Brazil)

A Delay-aware Auto Sleep Mode Operation for Power Saving WiMAX

Shengqing Zhu (Nanjing University, China, P.R. China); Tianlei Wang (South China University of Technology, P.R. China)

Principles of IEEE 802.11s

Guido Hiertz (RWTH Aachen University, Germany)

12:00 – 13:20 Lunch Break

13:20 - 14:10

WiMAN Keynote Address, KUILIMA I/II

Ad Hoc Networks for the Cyber-Physical Frontier

Dr. Tarek Abdelzaher (University of Illinois at Urbana-Champaign, USA)

14:10 - 15:30

Session WiMAN III: Wireless Communications and Antennas, KUILIMA I/II

Chair: Dr. Edoardo Biagioni (University of Hawaii at Manoa, USA)

A Codesign Prototyping Framework for Wireless LAN Transceivers with Smart Antennas

Sebastien Roy (Laval University, Canada)

Application of Cooperative Diversity in 802.11a Ad-hoc Networks

Zhipeng Zhao (COMSIS, France); Jean-Claude Belfiore (Ecole Nationale Supérieure des Télécommunications, France)

Implementation of a Wireless Mesh Network Testbed for Traffic Control

Kun-chan Lan (National ICT Australia Ltd., Australia)

Multiple Access Interference Cancellation and Link Multiplexing for MIMO Mesh Network

Kei Sakaguchi (Tokyo Institute of Technology, Japan)

14:10 - 15:30

Session WiMAN IV: Routing, Scheduling, and Channel Assignment (II), KUILIMA III

Chair: Dr. Karoly Farkas (University of West Hungary, Hungary)

A Channel Assignment Algorithm for Multi-Radio Wireless Mesh Networks

Stefano Avallone (University of Naples, Italy)

Load-aware Traffic Engineering for Mesh Networks

Devu Manikantan Shila (Illinois Institute of Technology, USA); Tricha Anjali (Illinois Institute of Technology, USA)

Traffic Oriented Topology Formation and Load-balancing Routing in Wireless Mesh Networks

Han Zhang (Hong Kong University of Science and Technology, Hong Kong); Danny Tsang (HKUST, Hong Kong)

A Scalable Link Quality Routing Protocol for Multi-radio Wireless Mesh Networks

Rachel Paschoalino (State University of Campinas - UNICAMP, Brazil); Edmundo Madeira (State University of Campinas, Brazil)

15:30 – 16:00 Coffee Break

16:00 - 18:00

Session WiMAN V: Architecture, Cross-layer Optimization, and Resource Allocation Models, KUILIMA I/II

Chair: Dr. Yong Wang (University of Northern British Columbia, Canada)

NWC: Node Weight Computation in MANETs

Karoly Farkas (University of West Hungary, Hungary); Theus Hossmann (ETH Zurich, Switzerland)

Price-Based Resource Allocation Strategies for Wireless Ad Hoc Networks with Transmission Rate and Energy Constraints

Jen-Hung Huang (National Chiao Tung University, Taiwan); Yu-Fen Kao (National Chiao Tung University, Taiwan)

Evaluating Fairness In Heterogeneous Wireless Ad Hoc Networks

Ra'ed Awdeh (University of Sharjah, UAE)

Context Awareness through Cross-Layer Network Architecture

Mohammad Razzaque (UCD, Dublin, Ireland); Simon Dobson (UCD Dublin, Ireland); Paddy Nixon (University College Dublin (UCD), Ireland)

Low-Latency Multichannel Wireless Mesh Networks

Robert McTasney (University of Colorado at Boulder, USA)

Iterative Cross Layer Schemes for Throughput Maximization in Multi-Channel Wireless Mesh Networks

Mohammad nekoui (university of tehran, Iran); Alireza Ghiamatyoun (University of Tehran, Iran); Said Nader-Esfahani (University of Tehran, Iran); Mehdi Soltan (Stanford University, USA)

16:00 - 18:00

Session WiMAN VI: Wireless Sensor and Ad Hoc Networks, KUILIMA III

Chair: Dr. Liqiang Zhang (Indiana University South Bend, USA)

On Improving the Precision of Localization with Minimum Resource Allocation

Frank Reichenbach (University of Rostock, Germany); Dirk Timmermann (University of Rostock, Germany)

Applying Design Patterns to Wireless Sensor Network Programming

Kenji Tei (University of Waseda, Japan); Yoshiaki Fukazawa (University of Waseda, Japan); Shinichi Honiden (University of Tokyo, National Institute of Informatics, Japan)

Adaptive Probabilistic Epidemic Protocol for Wireless Sensor Networks in an Urban Environment

Siok Kheng Tan (University of Bristol, United Kingdom); Alistair Munro (University of Bristol, United Kingdom)

Algorithms for communication in wireless multi-hop ad hoc networks using broadcasts in Opportunistic Large Arrays (OLA)

Edoardo Biagioni (University of Hawaii at Manoa, USA)

Achieving robustness through caching and retransmissions in IEEE 802.15.4-based WSNs

Daniele Messina (University of Palermo, Italy); Marco Ortolani (University of Palermo, Italy); Giuseppe Lo Re (University of Palermo, Italy)

Improved Low-Complexity Fusion Receivers for Synchronous DS-CDMA Sensor Networks

Justin Dyer (Stanford University, USA); Bala Natarajan (Kansas State University, USA)

**International Workshop on Multimedia Analysis and Processing (IMAP)
HAWAII, Thursday**

10:00 – 12:00

Session IMAP I: Video coding and analysis, HAWAII

Chair: Dr. Gokce Dane, Qualcomm Inc, USA

Functionally Layered Video Coding for River Surveillance

Masahiro Iwahashi (Nagaoka University of Technology, JP)

A Multi-mode Video Object Segmentation Scheme for Wireless Video Applications

Gokce Dane (Qualcomm Inc., US); Haohong Wang (Marvell Semiconductors, US); Khaled El-Maleh (Qualcomm Inc., US)

A Post Deblocking Filter for H.264 Video

Yao-Min Huang (National Chung Cheng University, TW); Jin-Jang Leou (National Chung Cheng University, TW); Ming-Hui Cheng (National Chung Cheng University, TW)

Robust Region-of-Interest Determination Based on User Attention Model Through Visual Rhythm Analysis

Ming-Chieh Chi (National Dong-Hwa University, TW); Chia-Hung Yeh (National Dong Hwa University, TW); Mei-Juan Chen (National Dong-Hwa University, TW); Ching-Ting Hsu (National Dong-Hwa University, TW)

Fast Motion Estimation using Hexagon-based Search Pattern in Predicted Search Range

Jui-chiu Chiang (Chung Cheng University, TW)

12:00 – 13:30 Lunch Break

13:30– 14:30

IMAP Keynote Address, HAWAII

Invited Talk: Perception Is Reality: Visual Quality Evaluation and Beyond

Speaker: Dr. Weisi Lin, Nanyang Technological University, Singapore

Chair: Dr. Shiqian Wu (Institute for Infocomm Research, SG)

14:30– 15:30

Session IMAP II: Multimedia Quality Evaluation, HAWAII

Chairs: Dr. Weisi Lin (Nanyang Technological University, SG)

A Fidelity Metric for Assessing Visual Quality of Color Images
Kuo-Cheng Liu (Tatung University, TW)

Temporal Quality Evaluation for Enhancing Compressed Video
Kai-Chieh Yang (University of California, San Diego, US); Gokce Dane
(Qualcomm Inc., US); Khaled El-Maleh (Qualcomm Inc., US)

15:30-16:00 Coffee Break

16:00– 18:00

**Session IMAP III: Media Processing for Intelligent Video Surveillance,
HAWAII**

Chairs: Chiou-Ting Hsu (National Tsing Hua University, TW)
Jun-Wei Hsieh (Yuan Ze University, TW)

Blind image blur identification in cepstrum domain
Shiqian Wu (Institute for Infocomm Research, SG); Weisi Lin (Nanyang
Technological University, SG); Zhongkang Lu (Institute for Infocomm Research,
SG)

Automatic Fall Incident Detection in Compressed Video for Intelligent Homecare
Chia-Wen Lin (Natl. Chung-Cheng Univ., TW); Zhi-Hong Ling (National Chiao
Tung University, TW)

*Motion-based Background Modeling for Moving Object Detection on Moving
Platforms*
Yao-Jen Chang (Industrial Technology Research Institute, TW)

Online Selection of Tracking Features using AdaBoost
Ying-Jia Yeh (National Tsing Hua University, TW); Chiou-Ting Hsu (National
Tsing Hua University, TW)

Suspicious Object Detection for Robbery Event Analysis Using Ratio Histogram
Jun-Wei Hsieh (Yuan Ze University, TW)

**International Workshop on Performance Modeling and Evaluation in
Computer and Telecommunication Networks (PMECT-2007)
KAHUKU II, Thursday**

10:00 – 12:00

Session PMECT I: Performance Modeling of Internet and QoS, KAHUKU II
Chair: Iain Phillips, Loughborough University, UK

A Mathematical Model for the Admission Control Problem in MPLS Networks with End-to-End delay guarantees

Hichem Ayed Harhira (École polytechnique de Montreal, CA); Samuel Pierre (Ecole Polytechnique de Montreal, CA)

Performance of a Priority-Weighted Round Robin Mechanism for Differentiated Service Networks

Helen Yu-Zhang and Peter Harrison (Imperial College, UK)

Bottleneck Bandwidth Estimation Using Frequency Analysis

Talal Edwan; Bogdan Ghita; Xingang Wang (University of Plymouth, UK)

Two-Phase Modeling of QoS Routing in Communication Networks

Chia-Hung Wang; Hsing Luh (National Chengchi University, TW)

Active Queue Management Design and Development based on the Correlation of Internet Traffic

Khalid Alawfi, Mike Woodward (University of Bradford, UK)

Automated Detection of Changes in Computer Network Measurements using Wavelets

Konstantinos Kyriakopoulos; David Parish (Loughborough University, UK)

12:00 – 13:30 Lunch Break

13:30 – 15:30

Session PMECT II: Performance Modeling of Mobile Networks, KAHUKU II

Chair: Dr. Polychroni Koutsakis

Resource Allocation for High Quality H.264 Streams Integrated with Web and MP3 Traffic over High-Speed Cellular Networks with Capture

Polychronis Koutsakis (McMaster University, CA)

Bayesian Learning of Neural Networks for Mobile User Position Prediction

Ahmed Sameh; Sherif Akoush (The American University in Cairo, EG)

A Network Selection Algorithm considering Power Consumption in Hybrid Wireless Networks

Inwhae Joe, Seokjoon Hong (Hanyang University, US)

An assessment of maximum interleaving in Reed-Solomon coding for 3G broadcasting

Kyungtae Kang (Seoul National University, KR)

Analysis of a Cell-based Call Admission Control Scheme for QoS Support in Multimedia Wireless Networks

Nidal Nasser (University of Guelph, CA); Sghaier Guizani (Qatar University, QA)

15:30-16:00 Coffee Break

16:00 – 17:50

Session PMECT III: Performance Modeling II and Platforms, KAHUKU II

Chairs: Xingang Wang (University of Plymouth, UK)

Evaluating Xen for Virtual Routers

Norbert Egi (Lancaster University, UK); Adam Greenhalgh (University College London, UK); Mark Handley (University College London, UK); Mickael Hoerd (University of Lancaster, UK); Laurent Mathy (Lancaster University, UK); Tim Schooley (University College London, UK)

Honey Plotter and the Web of Terror

Mark Withall, M. Shirantha de Silva, David Parish, and Iain Phillips (Loughborough University, UK)

Investigating QoS Performance on a Testbed Network

Jumpot Phuritakul (National Institute of Information and Communications Technology (NICT), JP); Kien Nguyen (Hanoi University of Technology, VN); Michihiro Koibuchi (National Institute of Informatics, JP); Yusheng Ji (National Institute of Informatics, JP); Kensuke Fukuda (National Institute of Informatics, JP); Shunji Abe (National Institute of Informatics, JP); Jun Matsukata (National Institute of Informatics, JP); Shigeo Urushidani (National Institute of Informatics, JP); Shigeki Yamada (National Institute of Informatics, JP)

Analysis of Discrete Time Queueing Networks under Buffer Threshold Scheme

Irfan Awan (University of Bradford), Lin Guan (Loughborough University, UK), Xingang Wang (University of Plymouth)

A Service Level Agreement-based Web Services Performance Guarantee Model

Chuanchang Liu (Beijing University of Posts and Telecommunications, CN)

**International Workshop on Distributed Sensor Networks (DSS)
KAHUKU I, Thursday**

10:00 – 12:00

Session DSS I: MAC, Mobility and Power Management, KAHUKU I

Chair: John McEachen, Naval Postgraduate School, US

A Patterned Preamble MAC Protocol for Wireless Sensor Networks

Inwhee Joe (Hanyang University, US)

A Framework for Querying Sensor Networks Using Mobile Devices

Shourui Tian (University of Illinois at Chicago, US); Sol Shatz (University of Illinois at Chicago, US); Yang Yu (Motorola Labs, US)

Dual-Sink: Using Mobile and Static Sinks for Lifetime Improvement in Wireless Sensor Networks

Xiaobing Wu (Nanjing University, CN); Guihai Chen (Nanjing University, CN)

A Comparison of Power Management Techniques in Wireless RF Direction Finding Sensor Networks

John McEachen (Naval Postgraduate School, US)

12:00 – 13:30 Lunch Break

13:30 – 15:30

Session DSS II: NeTRA and Applications, KAHUKU I

Chair: Yan Bai, Columbus State University, USA

A novel signal reconstruction algorithm for perception based data reduction in haptic signal communication

Julius Kammerl (Munich University of Technology, Germany), Peter Hinterseer (Munich University of Technology, Germany), and Eckehard Steinbach (Munich University of Technology, Germany)

Transport Protocols for remote programming of network robots within the context of Telelaboratories for Education: A comparative analysis

Raul Wirz (Jaume I University of Castellon, Spain), Raul Marin (Jaume I University of Castellon, Spain), Jose M Claver (University of Valencia, Spain), and Josep Fernandez (University Politechnique of Catalonia, Spain)

A virtual decomposition control based communication network for modular robots applications

Tom Lamarche (Canadian Space Agency, Canada) and Wen-Hong Zhu (Canadian Space Agency, Canada)

Sensor Response and Sensor Network Development for Practical Combustors

Kenneth Bryden (Iowa State University, US)

Sensor Network with Delay Tolerance (SeNDT)

Paul McDonald (Trinity College Dublin, IE); Dermot Geraghty (Trinity College Dublin, IE); Stephen Farrell (Trinity College Dublin, IE); Vinny Cahill (Trinity College Dublin, IE)

15:30-16:00 Coffee Break

16:00 - 17:30

Session DSS III: Security and Privacy, KAHUKU I

Chair: Junichi Suzuki, University of Massachusetts, Boston, US

Design Techniques for Streamlined Integration and Fault Tolerance in a Distributed Sensor System for Line-crossing Recognition

Chung-Ching Shen (University of Maryland, US)

Reducing Communication Overhead of Key Distribution Schemes for Wireless Sensor Networks

Christina Park (University of Toronto, CA); Ian Blake (University of Toronto, CA)

A Study of Context-aware Privacy Protection for Personal Information

Qingsheng Zhang, Yong Qi, Jizhong Zhao, Di Hou, Tianhai Zhao (Electronics and Information Engineering School Xi'an Jiaotong University, CN), Liang Liu (IBM China Research Lab, China)

Security and Privacy Analysis of RFID Authentication Protocol for Ubiquitous Computing

Hyun-Seok Kim (Korea University, KOREA, KR)