



**PACRIM 2009**



**Conference  
Program**



**Sunday August 23, 2009**

18:00 - 20:00

**Welcoming Reception (University Club)**

**Monday August 24, 2009**

8:45 - 9:00

**Opening Ceremony (ECS-125)**

9:00 - 10:10

**Keynote Address (ECS-125)**

10:10 - 10:30

**Nutrition Break (ECS Lobby)**

	<b>M11 (ECS-104)</b>	<b>M12 (ECS-108)</b>	<b>M13 (ECS-116)</b>	<b>M14 (ECS-124)</b>	<b>M15 (ECS-130)</b>	<b>M16 (ECS-125)</b>
<b>TRACK 10:30-12:10</b>	<b>Speech Enhancement I</b>  <b>Chair: Eberhard Häsler</b>	<b>Routing/Scheduling</b>  <b>Chair: Fayez Gebali</b>	<b>UWB and Wireless Transmission</b>  <b>Chair: Iwao Sasase</b>	<b>Network Performance</b>  <b>Chair: Waisum Lai</b>	<b>Distributed Video Coding I</b>  <b>Chair: Byeungwoo Jeon</b>	<b>Application I</b>  <b>Chair: Lin Cai</b>
<b>1</b>	Acoustic Noise Control: An Overview of Several Methods Based on Applications in Hearing Aids  Henning Puder	QoS routing method with inline network resource measurement  Michiko Harayama, Naoki Nakagawa, Tomoaki Morikawa	Power Minimization Algorithm for High-Speed Access over Copper: Multichannel Approach  Ali Enteshari, Mohsen Kavehrad	Performance of Angle-and-Range-Based Localization of Wireless Sensors  Ptryk Mazurkiewicz, Kin K. Leung	Distributed video coding encoder/decoder complexity sharing method by phase motion estimation algorithm  Chul Keun Kim, Min Geon Kim, Doug Young Suh	A Cooperative Game Theoretic Approach to Clustering Algorithms for Wireless Sensor Networks  Hui Jing, Hitoshi Aida
<b>2</b>	The undersampled wireless acoustic sensor network scenario: Some preliminary results and open research issues  Piet Sommen, Kees Janse	Multipath Routing Protocol Combined with Least Hop Backup Path and Packet Salvaging for MANETs  Hidetoshi Kajikawa, Takero Fukuhara, Safdar Bouk, Iwao Sasase	Performance of Orthogonal and Non-Orthogonal TH-PPM for Multiuser UWB Communication Systems  Behzad Bahr-Hosseini, Abolfazl Ghassemi, Wei Li, Aaron Gulliver	Lightweight Unicast and Multicast Routing for MANETs  Robert G. Cole, Baruch Awerbuch	Side Information Generation using Adaptive Search Range for Distributed Video Coding  Kyungyeon Min, Seanae Park, Donggyu Sim	Forensic Methods for Detection of Deniable Encryption in Mobile Networks  Angela Irwin, Ray Hunt
<b>3</b>		On the Performance of the Load Balanced Shortest Path Routing  Natasa Maksic, Petar Knezevic, Marija Antic, Aleksandra Smiljanic	Time Domain Spreading and Frequency Domain Maximal Ratio Combining Reception for Frequency Diversity Enhancement in Single Carrier UWB Communication Systems  Xiaoya Zuo, Xiaodai Dong, Yongsheng Wang	VESS: a Versatile Extensible Security Suite for MANET Routing  Jung T. Chang, Sreedeepti Gundala, Teng-Sheng Moh, Melody Moh	Hybrid Wyner-Ziv Video Coding Structure for Removing Feedback Channel  Hoyoung Lee, Tammam Tillo, Byeungwoo Jeon	A Fast Motion Sensing Algorithm for Vision Based Mobile Phones User Interface Design  Melissa Lee, Yoong Choon Chang, Tse Kian Neo
<b>4</b>		A Low-Jitter Guaranteed-Rate Scheduling Algorithm for Crosspoint-Buffered Switches  Ted Szymanski	A Channel Selective Approach to Wireless Image Transmission over Fading Channels  Hao Zhang, Aaron Gulliver	Hierarchical Routing by PNNI and OSPF/BGP  Yvonne Lai, Wai Sum Lai		Split connection scheme for session-based group communication  Hiroshi Emina, Yusuke Sugio, Hiroyuki Koga, Masayoshi Shimamura, Takeshi Ikenaga
<b>5</b>		Network Code Assisted HARQ Scheme in Multi-User Systems with Cooperative Relays  Chun Cheung, Roger Cheng	Non-orthogonal Pulse Position Modulation for Time-Hopping Multiple Access UWB Communications with Timing Jitter in an IEEE 802.15.3a Channel  Hao Zhang, Aaron Gulliver			Regulating Voice Traffic Rate in Mobile Wireless Ad Hoc Networks  Hongqi Zhang, Oliver Yang, Jiyang Zhao

12:10 - 13:30

**Lunch (ECS Lobby)**

Monday August 24, 2009

	M21 (ECS-104)	M22 (ECS-108)	M23 (ECS-116)	M24 (ECS-124)	M25 (ECS-130)	M26 (ECS-125)
TRACK 13:30-15:10	<b>Speech Enhancement II</b>  Chair: Eberhard Hänsler	<b>Coding for Storage</b>  Chair: Yunnan Wu	<b>Compression, Source Coding, and String Generation</b>  Chair: Yuzhe Yao	<b>Information organization and decision support</b>  Chair: Steven Neville	<b>Distributed Video Coding II</b>  Chair: Byeungwoo Jeon	<b>Transport Protocols</b>  Chair: Ted Szymanski
1	Unified Framework for Single Channel Speech Enhancement	Optimized Cell Programming for Flash Memories	Message Recovery Enhancements to LSE Embedding and Echo Hiding based on T-Codes	Keyword Definition on E-mail-based Information Utilization System	Efficient Distributed Video Coding using Symmetric Motion Estimation and Channel Division	A Transport Protocol with Energy Consumption Reduction by Reducing Redundant Transmissions in Wireless Sensor and Actor Networks
	Ivan Tashev, Andrew Lovitt, Alex Acero	Anxiao (Andrew) Jiang, Hao Li	Sathiamoorthy Manoharan, Sameer Mitra	Shinya Kambori, Hitoshi Aida	Sang-Uk Park, Jin-Woo Choi, Chang-Su Kim, Sang-Uk Lee, Jung-Won Kang, Kyung-Jun Lee	Takahiro Wada, Hayato Kitamoto, Takerou Fukuhara, Iwao Sasase
2	Robust Subsystems for Iterative Multichannel Blind System Identification and Equalization	Information Representation and Coding for Flash Memories	Simple Compression Method for Parallel Encoding Environment of Video Image	Managing Clinical Terminology Data While Requirements Are Changing	A cross-layer-based rate control method for distributed video coding	A Buffer Control Method Mitigating Effects of Contention between High-speed Transport protocols in long-distance broadband Networks
	Dominic Schmid, Gerald Enzner	Anxiao (Andrew) Jiang, Jehoshua Bruck	Yasuyuki Miura, Shogo Yamato	Mihai Georgescu	Chul Keun Kim, Doug Young Suh	Jin Hirose, Ken-ichi Baba, Shinji Shimojo
3	A natural acoustic front-end for Interactive TV in the EU-Project DICIT	Hierarchical Erasure Coding for P2P storage	Generating Sentences by Reverse-Parsing	The Design and Implementation Contents based on XML for Decline of Multimedia Data's Loading Delay		Connection Control Methods in Session Migration between Access Terminals
	L. Marquardt, P. Svaizer, E. Mabande, A. Brutti, C. Zieger, M. Omologo, W. Killermann	Denis Charles, Sidd Puri	Takashi Yanagisawa, Takao Miura	Hye-Jin Jeong		Yusuke Sugio, Hiroyuki Koga, Masayoshi Shimamura, Kenji Kawahara, Takeshi Ikenaga, Yuji Oie
4	Implementation of Virtual Sound Source System Considering Acoustic Path		Spatial Approximate String Matching			Method to Improve Fairness for High Speed Transport Protocols
	Mohammad Reza Alsharif, Mahdi Khosravy, Arthur Louis Alaniz, Ryo Koki, Toshiaki Yokoda, Katsumi Yamashita		Akifumi Katsumata, Takao Miura			Suguru Yoshimizu, Hiroyuki Koga, Katsushi Kouyama, Masayoshi Shimamura, Kazumi Kumazoe, Masato Tsuru
15:10 - 15:30	<b>Nutrition Break (ECS Lobby)</b>					

Monday August 24, 2009

	M31 (ECS-104)	M32 (ECS-108)	M33 (ECS-116)	M34 (ECS-124)	M35 (ECS-125)	
TRACK 15:30-17:30	Speech Enhancement III  Chair: Eberhard Hänslér	OFDM  Chair: Ruonan Zhang	WiMax Systems and Networks  Chair: Oliver Yang	MIMO  Chair: Young Gil Kim	Circuit Design  Chair: Mike Miller	
1	Challenges in Wideband Communication	On the Performance of CP based Exponentially Weighted Block RLS Channel Estimation Algorithm for OFDM Systems	Performance of FMIPv6-Based Cross-Layer Handover for Supporting Mobile VoIP in WiMAX Networks	Capacity and Outage Probability Analysis of Multiuser Diversity in MIMO MRC Systems with Transmit Antenna Selection	An OpenMP-based Circuit Design Tool: Customizable Bit-width	
	Hans-Wilhelm Gierlich	Hassan Ali, Pooh Ling E	Heejung Kim, Melody Moh	Mohammad Torabi, David Haccoun, Wessam Ajib	Timothy Beatty, Eric Aubanel, Kenneth Kent	
2	Model-Based Interrelations of Adaptive Filter Algorithms in Acoustic Echo Control	Weight Combining and Subchannel Allocation to Reduce Self Interference in OFDMA-CDMA System	A QoS Model for Random Access Systems with Multiple Request Classes	Improving Robustness of Precoded MIMO Systems with Imperfect Channel Estimation	The Autocorrelation Transform and its Application to the Classification of Boolean Functions	
	Gerald Enzner	Norikazu Matsui, Keisuke Mutou, Satoru Iijima, Iwao Sasase	Yousry Abdel-Hamid, Fayez Gebali, Aaron Gulliver	Geoffrey Colman, Tricia Willink	Jacqueline Rice	
3		Sub-Channel and Power Allocation for Multiuser OFDM with Rate Constraints using Genetic Algorithm	Cellular WiMAX/IEEE 802.16 Capacity Estimation	Optimal Frame-Splitting Ratio for Uncoded and Coded Transmissions with Distributed Antennas	A Design Flow for Optimal Circuit Design Using Resource and Timing Estimation	
		Kanadasamy Illanko, Kaamran Raahemifar, Alagan Anpalagan	Sadia Murawwat, Kazi Ahmed	Makoto Yasutake, Jun Cheng, Chen Sun, Yoichiro Watanabe	Farnaz Gharibian, Kenneth Kent	
4		Performance of Frequency Offset Estimation in the Presence of IQ Imbalance for OFDM Direct Conversion Receivers	A New Multicode Interference Cancellation Method for HSDPA System	Two Phase Constraining Schemes Using Quantized Feedback for MISO Systems	Lower Cost Quantum Gate Realizations of Multiple-control Toffoli Gates	
		Mamiko Inamori, Anas M. Bostamam, Yukitoshi Sanada	Sungbong Kim, Seunghwan Kim, Changtaek Shin, Jinyong Lee, Younglok Kim	Young Gil Kim, Norman Beaulieu	Michael Miller	
5		Improvement on Diversity Gain with Filter Bandwidth Expansion in Fractional Sampling OFDM Receiver	MS-initiated Handover Decision Criteria for VoIP over IEEE 802.16e	Per subchannel equalization for MIMO FBMC/OQAM systems	Generating Toffoli Networks from ESOP Expressions	
		Shinkai Toshiya, Haruki Nishimura, Yukitoshi Sanada	Muhammad Niswar, Shigeru Kashihara, Yuzo Taenaka, Kazuya Tsukamoto, Youki Kadobayashi, Suguru Yamaguchi	Atissa Ikhlef, Jérôme Louveaux	Yasaman Sanaee, Gerhard Dueck	
6		Non-uniform Sampling Point Selection in OFDM Receiver with Fractional Sampling	Low Complexity User Loading Emulation for 3G Wireless Systems Testbeds	On the Performance of Quantized Equal Gain Transmission in MIMO Systems	Parallelized Computational Electromagnetics TLM Algorithms on NVIDIA Graphics Processing Units	
		Haruki Nishimura, Mamiko Inamori, Yukitoshi Sanada, Mohammad Ghavami	Siddharth Mohan, Vinay Chande, Pavan Kumar Vitthaladevuni, Rohit Kapoor	Young Gil Kim, Norman Beaulieu	Filippo Rossi, Poman So	
18:30	<b>Conference Banquet (University Club)</b>					

**Tuesday August 25, 2009**

	<b>T11 (ECS-104)</b>	<b>T12 (ECS-108)</b>	<b>T13 (ECS-116)</b>	<b>T14 (ECS-124)</b>	<b>T15 (ECS-125)</b>	
<b>TRACK 8:50-10:10</b>	<b>Modulation  Chair: Abu Sesay</b>	<b>Signal Processing  Chair: Steven Neville</b>	<b>Image Processing 1  Chair: Mihai Sima</b>	<b>Coding and Implementation  Chair: Wei Xu</b>	<b>Sensor data processing  Chair: Jianping Pan</b>	
<b>1</b>	M-ary Hyper Phase-Shift Keying Over Non-Linear Satellite Channels	Forensic Information Acquisition in Mobile Networks	Histogram-Enhanced Principal Component Analysis for Face Recognition	Efficient Implementation of OVSF Code Generator for UMTS Systems	Reducing the error in mobile location estimation using robust window functions	
	James Caldwell, Clark Robertson	David Irwin, Ray Hunt	Ana-Maria Sevcenco, Wu-Sheng Lu	Seunghwan Kim, Minji Kim, Chanteak Shin, Jinyong Lee, Younglok Kim	Deepali Arora, Diego Felix, Michael McGuire	
<b>2</b>	Modulation Classification Based on Amplitude and Cosine moments	Blind signal separation via independent component analysis	Color-texture analysis by mutual information for multispectral image classification	Acquisition of Spread Spectrum Codes with Consecutive Correlator Outputs in the Presence of Fractional Doppler Frequency Offset	Extraction of 3D Axial Features in Programmable Point-Source Digital In-Line Holographic Microscope with Spherical Reference Field	
	Shinji Ohara, Masato Kita, Ikuo Oka, Shingo Ata	Frank Kragh, Jennie Garvey, Clark Robertson	Hassan EL MAIA, Ahmed HAMMOUCH, Driss ABOUTAJDINE	Seong Ro Lee, Hyun Gu Kang, Taehun An, Min A Jeong, Yun Hee Kim, Iickho Song, Seokho Yoon	Adekunle Adeyemi, Thomas Darcie	
<b>3</b>	Pairwise Optimization of Modulation Constellations	Proposal for a semantic data categorization system through reusing metadata	Empirical Mode Decomposition for Rotation Invariant Texture Classification	Adaptive Packet Parity Coding for Loss-Packet Recovery	A Laser Digital Scanning Grid Approach to Three Dimensional Real Time Detection of Underwater Targets	
	Brendan Moore, Glen Takahara, Fady Alajaji	Yoshiyasu Saeki, Hitoshi Aida	Changzhen Xiong, Fenhong Guo	Zhenyu Xian, Guanghui Song, Takashi Kaneda, Jun Cheng, Yoichiro Watanabe	Bing Zheng, Bo Liu, Hao Zhang, Aaron Gulliver	
<b>4</b>	Simple Series Form Formula of BER Performance for DBPSK/OFDM Signals in Time Selective Nonlinear Fading Channels	Experiment Investigation of Sampling Point Selection in Fractional Sampling OFDM Receiver	A Feature Based Technique for Face Recognition Using Mexican Hat Wavelets	Low Density Parity Check Codes for Dedicated Short Range Communication (DSRC) Systems		
	Akihiro Yamakita, Yuichiro Goto, Fumiaki Maehara	Kiyonori Saito, Toshiya Shinkai, Haruki Nishimura, Yukitoshi Sanada	Steven Gillan, Pan Agathoklis, Mohamed Seddeik Yasein	Najmeh Khosroshahi, Aaron Gulliver		
<b>10:10 - 10:30</b>	<b>Nutrition Break (ECS Lobby)</b>					

**Tuesday August 25, 2009**

TRACK 10:30-12:10	T21 (ECS-104)	T22 (ECS-108)	T23 (ECS-116)	T24 (ECS-124)	T25 (ECS-125)	
	Computer Architecture I Chair: Nikitas Dimopoulos	Cognitive Radio Chair: Geoffrey Colman	Image Processing 2 Chair: Deepali Arora	Array Signal Processing Chair: Pan Agathoklis	Networks Chair: Yonghong Huang	
1	Teaching Old Caches New Tricks: RegionTracker and Predictor Virtualization	Minimum SINR Maximization in the Downlink of Cognitive Radio Networks	Optimal Contrast Enhancement for Tone-mapped Low Dynamic Range Images based on High Dynamic Range Images	A Polyphase Architecture For Broadband Bandpass Beamforming For Arrays of Arbitrarily Placed Sensors	Proposed congestion control method reducing the size of required resource for all-IP networks	
	Ioana Burcea, Jason Zebchuk, Andreas Moshovos	Narges Noori, S. Mohammad Razavizadeh	Ka-Yue Yip, Oscar C. Au, Ngai-Man Cheung, Chun-Hung Liu, Cheuk-Hong Cheng	Thushara Gunaratne, Bruton Leonard	Kenichi Hatakeyama, Yasunori Osana, Masao Tanabe, Shin-ichi Kuribayashi	
2	Architecting Graphics Processors for Non-Graphics Compute Acceleration	A Precoding Technique for Joint Relaying and Broadcasting in Cognitive Radio Networks	Fast Texture Synthesis via Patch-Based Circular Linked Lists	Systolic Array Processors for 2D IIR Spatio-Temporal Beamforming Wave-Digital Filters (WDFs)	Novel Impairment-aware Traffic Engineering in All-Optical Networks	
	Tor M. Aamodt	Ahmadreza Ghaznavi, S. Mohammad Razavizadeh	Changzhen Xiong, Fenhong Guo	Arjuna Madanayake, Leonard Bruton	Rie Hayashi, Kaori Shimizu, Ichiro Inoue, Kohei Shimoto	
3	Architectural and Compiler Support for the Extraction and Execution of Coarse Grain Parallelism	Parameter Determination of Secondary User Cognitive Radio Network Using Genetic Algorithm	High Dynamic Range image capturing by Spatial Varying Exposed Color Filter Array with specific Demosaicking Algorithm	On the Attenuation of Interference and Mutual Coupling in Antenna Arrays Using 3D Space-Time Filters	Reinforcement Learning Based Dynamic Network Self-Optimization for Heterogeneous Networks	
	Tarek S. Abdelrahman	Sebastien Herry, Christophe Le Martret	Cheuk-Hong CHENG, Oscar C. AU, Ngai-Man CHEUNG, Chun-Hung LIU, Ka-Yue YIP	Najith Liyanage, Len Bruton, Pan Agathoklis	Zhiyong Feng, Li Tan, Wei Li, Aaron Gulliver	
4	Coarse-Grain Reconfigurable Architectures – Taxonomy –	ACK Signal Based On-Demand Routing Algorithm in Cognitive Radio Networks	An Optimization Method for Edge-Detector Parameter Tuning Based on Visual Perception	Computationally Efficient Approaches for Blind Adaptive Beamforming in SIMO-OFDM Systems	Hardware Architecture for Accelerating Communication on Maestro3 Cluster Network	
	Mihai Sima, Michael McGuire, Julien Lamoureux	Xianjun Zhou, Dan Zhou, Xiangbin Kong, Qiulin Sheng	Flávio Teixeira, Stuart Bergen, Andreas Antoniou	Bo Gao, Chao-Cheng Tu, Benoit Champagne	Hiroki Inoue, Koichi Wada, Hajime Kuribayashi, Koji Yasuda, Masaaki Ono	
5	New Processor Array Architecture for Scalable Radix 2 Montgomery Modular Multiplication Algorithm	Proposal of contents-oriented cognitive network architecture towards realization of the New Generation Network	Low Color Bit-depth Image Enhancement by Contour-Region Dithering	Direction-of-Arrival Estimation Using Adjacent Pattern Power Ratio with Switched Beam Antenna	A Low-cost Realistic Testbed for Mobile Ad Hoc Networks	
	Atef Ibrahim, Fayez Gebali, Hamed Elsimary, Amin Nassar	Kazuki Katagishi, Mitsuteru Nakamura, Yasuhiro Ohmiya, Masakazu Higuchi, Kensuke Hayakawa, Yasuo Morooka, Kazuo Toraiichi, Takio Kurita	Cheuk-Hong CHENG, Oscar C. AU, Ngai-Man CHEUNG, Chun-Hung LIU, Ka-Yue YIP	Yohei Ozaki, Jun Ozawa, Eddy Taillefer, Jun Cheng, Yoichiro Watanabe	Yağız Onat Yazır, Kazem Jahanbakhsh, Sudhakar Ganti, Gholamali Shoja, Yvonne Coady	
12:10 - 13:30	<b>Lunch (ECS Lobby)</b>					

**Tuesday August 25, 2009**

TRACK 13:30-15:10	T31 (ECS-104)	T32 (ECS-108)	T33 (ECS-116)	T34 (ECS-124)	T35 (ECS-125)	
	<b>Computer Architecture II</b> Chair: Nikitas Dimopoulos	<b>Application II</b> Chair: Tiko Kameda	<b>Biomedical Signal Processing</b> Chair: Leonard Bruton	<b>Query processing</b> Chair: Jackie Rice	<b>Multimedia Processing</b> Chair: Watheq El-Kharashi	
1	Reducing Non-Optimal LRU Decision Frequency in Chip Multiprocessors	Collaborative Proxy Peering System (CPPS) for Scalable Video Streaming	Towards the Detection of Microcalcifications on Mammograms Through Multifractal Detrended Fluctuation Analysis	An Adaptive Search System using Heterogeneous Document Vector Spaces	High speed markerless monoclar expression cloning	
	Amirali Baniasadi, Kaveh Jokar Deris	M Kabir, Gholamali Shoja, Eric Manning	Filipe Soares, Mário M. Freire, Manuela Pereira, Filipe Janela, João Seabra	Kosuke Takano, Shuichi Kurabayashi, Xing Chen, Yasushi Kiyoki	Zhan Xu, Zhenjiang Miao, Fei Hao, Ming Liu, Ying Fang	
2	Area-Aware Topology Generation for Application-Specific Networks-on-Chip Using Network Partitioning	A Relay-based webcast System to reduce Interruption Time	Feature Selection and Analysis on Mammogram Classification	Classification of Categorical Sequences	Ultrasound Influence on Impression Evaluation of Music	
	Ahmed Morgan, Haytham Elmiligi, M. Watheq El-Kharashi, Fayez Gebali	Tomoki Yoshihisa, Shojiro Nishio	Aijuan Dong, Baoying Wang	Abdellali Kelil, Alexei Nordell-Markovits, Shengrui Wang	Masakazu Higuchi, Mitsuteru Nakamura, Yasuhiro Toraichi, Kazuo Toraichi, Yasuo Morooka, Kazuki Katagishi, Nobuyuki Otsu, Hitomi Murakami	
3	Architectural support for greater predictability in real-time systems	Dynamic Adaptive Content Delivery Using Genetic Algorithm				
	Sathish Gopalakrishnan	Mohammad Maksud Hossain, Md Mostofa Akbar, Mds Humayun Kabir				
4	Session Summary	The LISA Prototype Framework for Media Access and Delivery				
	Nikitas Dimopoulos	Craig Gelowitz, Luigi Benedicenti, Raman Paranjape				
5		Approaching the Limits of Fixed-Delay Broadcasting Schemes for Video-on-Demand				
		Yi Sun, Tiko Kameda				
15:10 - 15:30	<b>Nutrition Break (ECS Lobby)</b>					

**Tuesday August 25, 2009**

	<b>T41 (ECS-104)</b>	<b>T42 (ECS-108)</b>	<b>T43 (ECS-116)</b>	<b>T44 (ECS-124)</b>	<b>T45 (ECS-125)</b>	
<b>TRACK</b> 15:30-17:30	<b>Signal Processing Algorithms</b>  <b>Chair: Wu-Sheng Lu</b>	<b>Video Processing</b>  <b>Chair: Mihai Sima</b>	<b>Peer-to-Peer Networks</b>  <b>Chair: Tomoki Yoshihisa</b>	<b>Distributed, grid, and Agent-based systems</b>  <b>Chair: Shengrui Wang</b>	<b>Parallel Processing</b>  <b>Chair: Kenneth Kent</b>	
1	Fast Group Sparse Classification	A Novel Post-processing Method for H.264/AVC Video Quality Enhancement	A Proposed Architecture for Secure Two-Party Mobile Payment	SWH: A Small-World Heuristic for Future Network	Novel Broadcasting Scheme of the Hierarchical Interconnection Network	
	Angshul Majumdar, Rabab Ward	Wen YANG, Oscar Au, Feng Zou, Jingjing Dai, Chao Pang, Xing Wen	Jacqueline Rice, Yunpu Zhu	Samer Damaj, Thierry Goubier, Bernard Pottier	Jywe-Fei Fang, Ka-Lok Ng, Hung-Jr Shiu, Chien-Hung Huang	
2	On Convergence Properties of Subspace Trackers Based on Orthogonal Iteration	A Novel Block Matching Algorithm for Motion Vector Estimation	Traceback Coordination Model with Legal Requirements against Source Address Attacks	Edge Fault Tolerant Pancyclicity of the WK-Recursive Network	Improving bottleneck in Web-based MORPG	
	Chao-Cheng Tu, Benoit Champagne	M Kabir, M Haque	Ken Wakasa, Keisuke Takemori, Michihiro Kimura	Chien-Hung Huang, Yu-Chin Liu, Wen-Yew Liang, Jywe-Fei Fang	Masaki Kohana, Shusuke Okamoto, Masaru Kamada, Tatsuhiro Yonekura	
3	Towards Global Design of Orthogonal Filter Banks and Wavelets	Embedded Denoising for the H.264/AVC Extension-Spatial SVC	An Analysis of the Number of Message Receivers in Highly Clustered Peer-to-Peer Networks	Network Flow Heuristic Algorithm for a Distributed Web Service Selection Problem	A Probabilistic Analysis of a Barrier Eliminating Algorithm	
	Jie Yan, Wu-Sheng Lu	Enming Luo, Oscar C.L. Au, Liwei Guo, Yannan Wu, Shing Fat Tu	Keiichi Endo	Maliha Sultana, Md Mostofa Akbar, Mushfiqur Rouf	Naoki Yonezawa, Issei Kino, Koichi Wada	
4	Characterization and Detection of PPM Encoded Servo Signals in Tape Drives	Frame Rate Up-Conversion of Compressed Video Using Region Segmentation and Depth Ordering	Hierarchical Peer-to-Peer Overlay with Cluster-Reputation-Based Adaptation	Implementation of self-backup mechanism and inter-agent communication for strong migration mobile agent system	A New File System with Time-Based Indexing Scheme for Continuous Media Streams	
	Giovanni Cherubini, Roy Cideciyan, Evangelos Eleftheriou, Jens Jelitto	Yue-Meng Chen, Ivan Bajic, Chun Qian	Chih-Lin Hu, Tzu-Han Kuo	Takahiro Kondoh, Fumiaki Katoh, Munenori Kai	Minsuk Lee	
5	The Noiseless Code-length Concept in Subspace Estimation for Low SNR Hyperspectral Signals	Compressed-Domain Moving Region Segmentation with Pixel Precision using Motion Integration	Peer-to-Peer File Sharing over Wireless Mesh Networks	Development of the Strong Migration Mobile Agent System AgentSphere for Autonomic Distributed Processing	Page Replacement Algorithm using Swap-in History for Remote Memory Paging	
	Masoud Farzam, Soosan Beheshti	Yue-Meng Chen, Ivan Bajic	Amir Al Asaad, Sathish Gopalakrishnan, Victor Leung	Yuki Akai, Kazuaki Wakao, Takashi Yokouchi, Munenori Kai	Kazuhiro Saito, Hiroko Midorikawa, Munenori Kai	
6	A 60-dB Image Rejection Filter Using $\Delta$ - $\Sigma$ Modulation and Frequency Shifting	Error-Resilient Multiple-Description Video Coding with 3-D SPIHT		Refinements to Task Control in the Aspect-Oriented Programming Model for Computing Grids	Characterization of Single-Port and Multi-Port Collective Communication Operations on the Cell BE Processor	
	Toshihiro Konishi, Koh Tsuruda, Shintaro Izumi, Hyeokjong Lee, Hidehiro Fujiwara, Takashi Takeuchi, Hiroshi Kawaguchi, Masahiko Yoshimoto	Jie Zhu, Aysegul Cuhadar		Aurelio Akira Mello Matsui, Hitoshi Aida	Farshad Khunjush, Nikitas Dimopoulos	

**Wednesday August 26, 2009**

	<b>W11 (ECS-104)</b>	<b>W12 (ECS-108)</b>	<b>W13 (ECS-116)</b>	<b>W14 (ECS-124)</b>	<b>W15 (ECS-125)</b>	
<b>TRACK 8:50-10:30</b>	<b>Performance Analysis</b>	<b>Wireless LAN and WiMax Technologies</b>	<b>Speech Processing</b>	<b>Relay and Cooperative Communications</b>	<b>Radar/Target Localization</b>	
	<b>Chair: Frank Kragh</b>	<b>Chair: Michael McGuire</b>	<b>Chair: Kosuke Takano</b>	<b>Chair: Hong-Chuan Yang</b>	<b>Chair: Xiaodai Dong</b>	
1	Performance Analysis of a LINK-16/JTIDS Compatible Waveform Transmitted over a Channel with Pulse Noise Interference	Design and Implementation of an Inter-Domain TCP Handover Management Method in Ubiquitous WLANs	A Content-based Chinese Speech Document Retrieval System Design and Implementation	Performance Analysis of A Multi-relay Two-way Cooperative Communication System over Rayleigh Fading Channels	Upper Bounds on Processing Loss for Wideband, Long-CPI Space-Time Adaptive Processing	
	Dimitrios Lekkas, Clark Robertson	Yuzo Taenaka, Kazuya Tsukamoto, Shigeru Kashiara, Suguru Yamaguchi, Yuji Oie	Cencen Zhong, Zhenjiang Miao, Jie Zhang, Luyan Du, Dandan Kang	Muhammad-Mehboob Fareed, Shakeel-ur-Rehman, Murat Uysal	Steven E. Golowich	
2	Performance of Enhanced Proportional Fair Scheduling in HSDPA for Multimedia Service Streaming	802.11e standard in ad hoc network: QoS, Disabling Acknowledgment	Spectral Mismatch as the Index of Quality of Naturalness in Synthetic Speech	Power Allocation for Coded Cooperative Communications	High order statistic receiver applied to UWB radar	
	Wei Li, Aaron Gulliver	Herve Costantini, Selma Boumerdassi	S.P. Kawachale, S.R. Gengaje, J.S. Chitode	Naruhiko Fujiwara, Makoto Yasutake, Sun Chen, Cheng Jun, Yoichiro Watanabe	L. Sakkila, Y. Elhillali, J. Zaydouni, A. Rivenq, C. Tatkeu, J.M. Rouvaen	
3	Performance Analysis of Super-Orthogonal Space-Frequency Trellis Coded-OFDM System	Practical Performance Evaluation of VoWLAN Handover Based on Frame Retries		Network Low Density Parity Check Codes Designed for Multiple-Access Relay Channel	Subsurface Object Detection Using UWB Ground Penetrating Radar	
	Oludare Sokoya, B.T. Maharaj	Sunghye Bang, Yuzo Taenaka, Shigeru Kashiara, Kazuya Tsukamoto, Suguru Yamaguchi, Yuji Oie		Guanghui Song, Ying Li, Jun Cheng, Yoichiro Watanabe	Guangrong Ji, Xiang Gao, Hao Zhang, Aaron Gulliver	
4		The Application of Wi-Fi Radiolocation Research to Mobile Devices		Relay selection scheme using directional antennas for cellular networks	Sensor Fusion Method for Passive Acoustic Arrays	
		Christopher Pearson, Michael McGuire, Yvonne Coady		Poongovan Ponnaivaikko, Sarah Kate Wilson, JoAnne Holliday	Michael Hegedus, Raman Paranjape, Mehran Mehrandezh	
5					High-Resolution Spectrum Estimation for Non-Coherent Source Location Using the Multi-Frequency Virtual Correlation Matrix	
					Jeannie Moulton, Saleem Kassam	
<b>10:30 - 10:50</b>	<b>Nutrition Break (ECS Lobby)</b>					