

Wednesday August 24, 2005	
18:00 - 20:00	Welcoming Reception and Registration (University Club)

Thursday August 25, 2005		
8:00 – 13:00	Registration (Human & Social Development Lobby - HSD A230)	
8:45 - 9:00	Opening Ceremony (Human & Social Development- HSD A240)	
9:00 - 10:10	Keynote Address (Human & Social Development- HSD A240)	
10:10 - 10:30	Nutrition Break (Human & Social Development Lobby - HSD A230)	
10:30 - 12:10	Papers	Chair
F11: Performance I	<p>Optimizing the Performance of a Cluster of Hosts <i>Alberto Avritzer, Andre Bondi, Elaine Weyuker</i></p> <p>Protocols and Control Mechanisms to Save Terminal Energy in IEEE 802.16 Networks <i>Sayandev Mukherjee, Kin K. Leung, George E. Rittenhouse</i></p> <p>Bandwidth Usage and Network Latency in a Conveyor System with Ethernet based Communication between Controllers <i>Andre Bondi, Christopher S. Simon, Keith W. Anderson</i></p>	<p>Waisum Lai (Cornett B108)</p>
F12: Ultra-wideband	<p>On Performance of Time-Hopping Impulse Radio System with Space Time Coding <i>Tung Lai, Abu Sesay</i></p> <p>DS-PPM Ultra-Wideband Systems with BCH Coding <i>Hanfeng Chen, Wei Li, T. Aaron Gulliver, Hao Zhang</i></p> <p>Performance of SC-FDE in UWB Communications with Channel Estimation Errors <i>Yue Wang, Xiaodai Dong</i></p> <p>Accurate BER of Time-Hopping and Direct-Sequence UWB Systems in Multi-User Interference</p>	<p>Xiaodai Dong (Cornett B111)</p>

Thursday August 25, 2005

Bo Hu, Norman C. Beaulieu

Ultrawideband Synchronization in Dense Multi-Path Environment

Dinh Anh, Xia Cheng

F13: **Detection**

Performance Comparison of Signal Detectors for Dependent Gaussian Channels

Jinsoo Bae, Jongho Oh, Sun Yong Kim, Hyun Gu Kang, In Jong Kim, Ickho Song

Detection and Arrival Time Estimation of a Pulsed Sinusoid

Y.T. Chan, B. Haynes Lee, Robert Inkol, Francois Chan, F. Chan

Decision Regions for Weak PSK Signals with a Novel *M*-ary Detection Criterion

Sang Won Choi, Seokho Yoon, IICKHO SONG, Jinsoo Bae, Sun Yong Kim

Non-Coherent Detection of MSK with Transmit Diversity in Fast Fading

Michael Riediger, Paul Ho

A New Improved Detector for the V-BLAST System

Saeed Fouladi Fard, Chintha Tellambura

Michael McGuire

(Cornett B112)

F14: **Space/Time Coding MIMO**

Differential Distributed Space-Time Block Coding

Simon Yiu, Robert Schober, Lutz Lampe

Further Discussion on the Design of STBC-MLC Scheme for Different Set Partitioning

Feng Zhang, A. B. Sesay

Hong-Chuan Yang

(Mac Laurin D103)

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	<p>A Null Space Constraint Based Block TOMLINSON-HARASHIMA Precoding Technique for the Multi-user MIMO Downlink</p> <p><i>Jia Liu, Witold Krzymien</i></p> <p>On the Performance of the Space Time Coded WCDMA Downlink System Over Multi-Path Fading Channel</p> <p><i>Tung Lai, Abu Sesay</i></p> <p>Polynomial Constrained Detection for MIMO Systems Using Penalty Function</p> <p><i>Tao Cui, Chintha Tellambura</i></p>	
F15: Coding I	<p>Improved BICM Iterative Decoding with Hard-Decision Feedback</p> <p><i>Jeff Liu, Lutz Lampe</i></p> <p>Turbo Decoding Enhancement Studies in Satellite Communications</p> <p><i>Liang Chu</i></p> <p>Performance Evaluation of LDPC Codes in the Presence of Colored Noise</p> <p><i>Saeed Sharifi Tehrani, B. F. Cockburn, S. Bates</i></p> <p>Low-Density Parity-Check Convolutional Codes for Ethernet Networks</p> <p><i>Stephen Bates, Z. Chen, X. Dong</i></p> <p>Effect of Imperfect CSI on Iteratively Decoded BICM over Nakagami Fading Channels</p> <p><i>Chantri Polprasert, J. A. Ritcey</i></p>	<p>Stephen Bates (Mac Laurin D110)</p>
F16: Networking	<p>Model Description Method based on a Graphical Language and a Character Based Language together for a Queueing Network Model</p>	<p>Iwao Sasase (Mac Laurin D116)</p>

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	<p><i>Kentaro Motoyama, Koichi Kashiwagi, Yoshinobu Higami, Shinya Kobayashi</i></p> <p>Performance Comparison of ECN-BLUE in Both Single-Bottleneck and Multi-Bottleneck Networks <i>Xintong Liu, Oliver Yang</i></p> <p>AQM Controller Parameter Optimization to Support TCP Traffic <i>Wei Yang, Oliver Yang</i></p> <p>Design and Implementation of a Simulator for Peer-to-Peer Networks: Optimal-sim <i>Haoyi Wan, Norihiro Ishikawa</i></p> <p>Performance Evaluation of Detour Path Selection Scheme for MPLS Traffic Engineering <i>Hitomi Tamura, Kazuhiko Yuasa, Kenji Kawahara, Yuji Oie</i></p>	
<p>F17: Computer Architecture</p>	<p>A Dynamically Clustered Chip Multiprocessor <i>Chao-Chin Wu, Guan-Joe Lai</i></p> <p>Combination of Mixed Coordinates Strategy and Direct Computations for Efficient Scalar Multiplications <i>Daisuke Adachi, Tomio Hirata</i></p> <p>Functional Units Power Gating in SMT Processor <i>Houman Homayoun, K. F. Li, S. Rafatirad</i></p>	<p>Amirali Banisadi (Human&Social Development-HSD A240)</p>
<p>12:10 - 13:30</p>	<p>Lunch (Human & Social Development Lobby - HSD A230)</p>	
<p>13:30 - 15:10</p>	<p>Papers</p>	<p>Chair</p>
<p>F21: Performance II</p>	<p>Analysis and Design of AT&T's Global PNNI Network <i>Wai Sum Lai, E. Rosenberg, L. Amiri, M. Ball, Y. Levy, H. Shulman, H. Tong, M. Ungar</i></p>	<p>Waisum Lai (Cornett B108)</p>

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	<p>Hierarchical PNNI Addressing by Recursive Partitioning <i>Eric Rosenberg</i></p> <p>QoS Routing in Multi-Domain Networks <i>Lotfi Benmohamed, Bharat Doshi</i></p> <p>Border Gateway Protocol 4 (BGP4) Performance over Intermittent Satellite Links <i>Robert Cole, Lotfi Benmohamed, A. Desimone, and B. Doshi</i></p>	
F22: Media-oriented Architectures	<p>A Scheduling Scheme for Continuous Media Data Broadcasting with Prefetching <i>Tomoki Yoshihisa, Masahiko Tsukamoto, Shojiro Nishio</i></p> <p>A Video Editing Support System using Users' Gazes <i>Toshifumi Kimura, Kazutoshi Sumiya, Hiroko Tanaka</i></p> <p>Tracking Moving Objects in a Video Sequence by the Neural Network Trained for Motion Vectors <i>Kunio Takaya, Rishabh Malhotra</i></p> <p>Admission Control of Multimedia Sessions to a Set of Multimedia Servers Connected by an Enterprise Network <i>Md. Islam, M. M. Akbar, and H. Hossain, E. G. Manning</i></p>	<p>Mohammed Seddeik Yasein (Cornett B111)</p>
F23: DSP for Communications	<p>Correlation of Parametric and Nonparametric Statistics for Applications in Signal Detection <i>Jumi Lee, Hyoungmoon Kwon, Sun Yong Kim, Ickho Song, So Ryoung Park</i></p> <p>CORDIC Scenario for Kalman-Based Channel Estimation <i>Mihai Sima, Michael McGuire, Daniel Lancu, John Glossner</i></p>	<p>Bruce Cockburn (Cornett B112)</p>

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	<p>The Effect of Noise, Fading and Interference on the Performance of Scheduling Algorithms in a Cross-Layer Downlink Mode <i>Deepali Arora, Panajotis Agathoklis</i></p> <p>A Silence Detection and Suppression Technique Design for Voice over IP Systems <i>Ricardo Becker, Guilherme Corsetti, Jorge Guedes Silveira, Ricardo Balbinot, Fladhimyr C. Castello</i></p>	
<p>F24: Optical Communication Systems</p>	<p>A Novel Circle Construction for SONET/WDM Wavelength Assignment <i>Wei Li, T. A. Gulliver, Wei Zou</i></p> <p>Marker Codes to Correct Insertion/Deletion Errors in Differential Pulse-Position Modulation for Wireless Infrared Communications <i>Ubolthip Sethakaset, T. Aaron Gulliver</i></p> <p>Survivability of Optical Virtual Private Network using the Load Distributive Shortest Pair Algorithm <i>Choudhury Al Sayeed, Oliver Yang</i></p> <p>Impact of Component Crosstalk on the Bit-error-rate Performance of a WDM Cross-connect Switch based on FBG-OC <i>S. P. Majumder, Sanjoy Dey</i></p>	<p>Reuven Gordon (Mac Laurin D103)</p>
<p>F25: Coding II</p>	<p>Distributed Antipodal Paraunitary Precoders for OFDM Systems <i>Borching Su, Palghat Vaidyanathan</i></p> <p>Representation of Antiuniform and Partially Antiuniform Huffman Codes <i>Morteza Esmaeili, Ali Kakhbod, T. Aaron Gulliver</i></p> <p>Selection in Multimode Coding for Multiple Constraints <i>Yan Xin, Ivan Fair</i></p>	<p>Stephen Bates (Mac Laurin D110)</p>

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	<p>Spectral Performance of Integrated DC-Free Error-Control Codes <i>Fengqin Zhai, Yan Xin, Ivan Fair</i></p>	
F26: Application	<p>A Construction Method of a Retrieval Space by an Evaluation of Word Distributions in Documents <i>Hidenori Homma, Takafumi Nakanishi, Takashi Kitagawa</i></p> <p>A CBR-Streaming Scheme for VBR-encoded Videos <i>Md. Humayun Kabir, Eric G. Manning, Gholamali C. Shoja</i></p> <p>GRIP -- A Profile Control Mechanism For User Privacy Protection and Quality of Personalization Services <i>Takahiro Miyamoto, Kaname Harumoto, Shinji Shimojo, T. Okuda</i></p> <p>A Novel Mail Filtering Method Against Phishing <i>Atsuo Inomata, Sk. Md. Mizanur Rahman, Takeshi Okamoto, Eiji Okamoto</i></p>	<p>Ken Kent (Mac Laurin D116)</p>
15:10 - 15:30	Nutrition Break (Human & Social Development Lobby - HSD A230)	
15:30 - 17:30	Papers	Chair
F31: Agent Technology	<p>The Design Concept and Initial Implementation of Agent Teamwork GRID Computing Middleware <i>Munehiro Fukuda, Koichi Kashiwagi, Shinya Kobayashi</i></p> <p>The Check-Pointed and Error-Recoverable MPI JAVA Library of Agent Teamwork GRID computing Middleware <i>Munehiro Fukuda, Zhiji Huang</i></p> <p>An Associative Memory Model for Unsupervised Sequence Processing <i>Stefan Pantazi, J. R. Moehr</i></p>	<p>Hiroyuki KAWANO (Cornett B108)</p>

Thursday August 25, 2005

Implementation and Evaluation of Autonomic Distributed Processing System Using Mobile Agent

Ryusuke Sasaki, Masatoshi Takubo, Munenori Kai

Performance Evaluation of Hose Bandwidth Allocation Method using Feedback Control and Class-Based Queueing for VPNs

Masayoshi Shimamura, Katsuyoshi Iida, Hiroyuki Koga, Youki Kadobayashi, Suguru Yamaguchi

F32:
Processing

Video

An Area Efficient Motion Estimation For A New Block- Matching Algorithm

L. Yang, Majid Ahmadi

On the Capabilities of Intra-Frame Predication in H.264 Video Encoders

Gerardo Fernández-Escribano, J. Villalón, Pedro Angel Cuenca Castillo, Luis Orozco-Barbosa, Antonio Garrido

A Proposal of Real-Time Video Simulator using FPGA for Multimedia Processing

Satoshi Toriwa, Yasuo Morooka, Kazuo Toraichi, Yasuyuki Miura, Akira Okamoto, Mamoru Kitamura

Half-Pixel Accurate Motion-Estimation Using A Flexible Triangle Search

M. Rehan, Pan Agathoklis

Sub-pixel Accuracy Motion Estimation using Linear

Approximate Model of the Error Criterion Function

David Kwon, P. Agathoklis, Peter F. Driessen

Mohammed Seddeik
Yasein

(Cornett B111)

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F33: Parallel Processing & Architectures	<p>Code Migration Concealment by Interleaving Dummy Segments <i>Shinya Kobayashi, Shinji Morigaki, Eric Nelson, Koichi Kashiwagi, Yoshinobu Higami, Munehiro Fukuda</i></p> <p>Eliminating Barrier Synchronizations in Openmp Programs for PC Clusters <i>Naoki Yonezawa, Koichi Wada</i></p> <p>BDD-based Conjunctive Decomposition Using a Genetic Algorithm and Dependent Variable Affinity <i>Lun Li, Mitch Thornton, Stephen Szygenda</i></p> <p>Loop Sensitive Context Switching between Partitions in a Co-Design Virtual Machine <i>Kenneth Kent, Joey Libby</i></p> <p>Embedding the Mesh in Books <i>E. Yen, C. Huang, K. Ng, P. Lee, Jywe-Fei Fang</i></p> <p>Parallelizing Particle Swarm Optimization <i>Bo Li, Koichi Wada</i></p>	Newaz Rafiq (Cornett B112)
F34: Wireless Networks	<p>Implementing Multipath Source Routing in a Wireless AD HOC Network Testbed <i>Yihua Zhai, Oliver Yang, Wenlan Wang, Yantai Shu</i></p> <p>Proposal of Multipath Routing Method Focusing on Reducing Delay Jitter <i>Takafumi Okuyama, Kenta Yasukawa, Katsunori Yamaoka</i></p> <p>An Energy-aware Spanning Tree Algorithm for Data Aggregation in Wireless Sensor Networks</p>	Vincent Wong (Mac Laurin D103)

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Marc Lee, Vincent Wong

Multiple Access Receiver based on Hierarchical Clusters / Users Detection Using Non-Binary LDPC Codes

Alban Goupil, Maxime Colas, David Declercq, Guillaume Gelle

Cooperator Switch Diversity in Cooperative Networks

Le Yang, Hong-Chuan Yang

A Detailed Characterization of the Handover Process using Mobile IPV6 in 802.11 Networks

May Siksik, H. Alnuweiri, S. Zahir

F35:
Applications

DSP

A Recursive Adaptive Lattice Filters for Impulsive Signals

Li Sen, Qiu Tian, Shuang, Lin Bin, Yue Dian, Wu

Feature Selection Using The Supervised PDF Estimation Based on Non-uniform Filter Banks

Hyeon Su Park, Changyong Shin, Edward Powers

Application of Parametric Window Functions to The STDFT Method for Gene Prediction

Stuart Bergen, Andreas Antoniou

Basic Study of Ship's Bridge Teammate's Mental Workload by Wavelet Transform

Koji Murai, Yuji Hayashi

Shape-directed Fundus Image Scaling Method Applied on an Ophthalmology CAD System

K. Sheng, K. Katagishi, and K. Toraichi, Y. Mitamura, H. Murakami, A. Koike, T. Asami

Iickho Song

(Mac Laurin D110)

Thursday August 25, 2005		
	<p>Modal Control Using A Deformable Mirror for Adaptive Optics <i>P. J. Hampton, C. Bradley, Pan Agathoklis</i></p>	
F36: Wireless Systems	<p>Estimation of Fading Distribution Parameters in Noisy Channels <i>Yunfei Chen, Norman C. Beaulieu</i></p> <p>Reduced Complexity Carriers Recovery Architecture In QAM Software Receiver <i>Ali Enteshari, Reza Pasand, J. Nielsen</i></p> <p>Fast Optimal Radio Resource Allocation in OFDMA System Based On Branch-and-Bound Method <i>Zhiwei Mao, X. M. Wang, Jian Lin</i></p> <p>Low-Order Kalman Filters for Channel Estimation <i>Michael McGuire, Mihai Sima</i></p> <p>Order Statistics for Correlated Fading Channels <i>Maged ElKashlan, Tamer Khattab,</i> <i>Cyril Leung, Robert Schober</i></p> <p>Application of Sphere Decoding in Intercarrier-Interference Reduction for OFDM Systems <i>Yajun Kou, Wu-Sheng Lu, Andreas Antoniou</i></p>	<p>Wei Li (Mac Laurin D116)</p>
18:30 – 19:30	Reception (University Club)	
19:30 – 20:30	Dinner (University Club)	

Friday August 26, 2005		
8:00 – 13:00	Registration (Human & Social Development Lobby - HSD A230)	
8:50 – 10:10	Papers	Chair
S11: Network & Protocols Algorithms	<p>Stochastic QoS-based Classification for Link Models with Calculated Service Levels <i>Amr Mohamed, Hussein Alnuweiri</i></p> <p>The Context-adaptable Pedestrian Navigation System and Usability in Practical Settings <i>Masayuki Kawabata, Ryo Nishide, Mayumi Ueda, Shinichi Ueshima</i></p> <p>A New Architecture for TDM Switch <i>Satya Prasad Majumder, Raiyan Kabir, Rezwanur Rahman, Md. Farrukh Imtiaz, Md. Moniruzzaman</i></p> <p>Performance Evaluation of P2P Systems with Hierarchical Query Routing <i>H. Kishi, Hiroyuki Kawano</i></p>	Kui Wu (Cornett B108)
S12: Performance Analysis	<p>Performance Analysis of SNR Estimator in Digital Receivers <i>Yunfei Chen, Norman C. Beaulieu</i></p> <p>A Simple Algorithm for Closed-Loop Transmit Diversity with a Low-Data-Rate Feedback Channel <i>Chi-Wan Sung, Sin-Chi Lp, Kin-Kwong Leung</i></p> <p>Partial Rake Receivers for Weak Signals in Impulsive Fading Environment <i>Seokho Yoon, Sang Won Choi, So Ryoung Park, Seungwon Choi, Byoung Soo Kim, Iickho Song</i></p> <p>Exact Performance Analysis of GSC with Normalized Threshold Test Per Branch <i>Lei Xiao, Xiaodai Dong</i></p>	Anh Dinh (Cornett B111)

<p>S13: Processor Design Issues</p>	<p>On the Design of Task Scheduling in the Heterogeneous Computing Environments <i>Hsin-An Chen</i></p> <p>Early Evaluation for Phased Logic Circuits Using BDDs and MVL <i>Kenneth Fazel, Mitch Thornton, Robert Reese</i></p> <p>Prototype Hardware Implementation of a Single-Chip Multiprocessor with a Split-Transaction Bus <i>Naraig Manjikian, James Reed</i></p>	<p>Mohamed Fayed (Cornett B112)</p>
<p>S14: Web Services & Applications</p>	<p>Robustness of Heavy-tailed Property for Web Server Performance <i>Takuo Nakashima, Mamoru Tsuichihara</i></p> <p>Easy Creation of Network-based Interactive Animations using Islay <i>Shusuke Okamoto, Takahiro Hashimoto, Masaru Kamada, Tatsuhiro Yonekura</i></p> <p>Boolean Web-Service Automata: A Parallel Model for Distributed Web Service Operations <i>Abdelaziz Fellah</i></p> <p>A New Web Cache Replacement Algorithm <i>Anupam Bhattacharjee, Biplob Kumar Debnath</i></p>	<p>Ahmed Awad (Mac Laurin D103)</p>
<p>S15: Audio/Music/ Speech Processing</p>	<p>Wearable Sensors for Real-Time Musical Signal Processing <i>Ajay Kapur, Adam R. Tindale, Simon Tipler, Peter F. Driessen</i></p> <p>Using Voice Conversion as a Paradigm for Analyzing Breathless Singing Voices <i>Karl I. Nordstrom, Glen Rutledge, Peter F. Driessen</i></p> <p>Audio-based Gender-identification using Bootstrapping</p>	<p>Mohsen Ghazel (Mac Laurin D110)</p>

	<p><i>George Tzanetakis</i></p> <p>Multilevel Optimization of Speech Coding Algorithms for Modern DSP Architectures</p> <p><i>M.T. Awan, S. Masud, N. Khan, F. Abadullah</i></p>	
S16: AI & Applications	<p>Combination Clustering for Web Correlation</p> <p><i>Kou Takahashi, Takao Miura, Isamu Shioya</i></p> <p>A Construction Method of a Metadata Space based on Relations between Words from an Index of a Book</p> <p><i>Takafumi Nakanishi, Sadaya Kishimoto, Tetsuya Sakurai, Takashi Kitagawa</i></p> <p>A Proposal of Information Retrieval Method based on TPO Metadata</p> <p><i>Ismail Arai, Kazutoshi Fujikawa, Hideki Sunahara</i></p> <p>Radio Resource Management Scheme for HAPS Using Genetic Algorithms</p> <p><i>Muhamad Asvial</i></p>	Rafael Parra-Hernandez (Mac Laurin D116)
10:10 – 10:30	Nutrition Break (Human & Social Development Lobby - HSD A230)	
10:30 – 12:10	Papers	Chair
S21: Network Security	<p>Forecast Techniques for Predicting Increase or Decrease of Attacks Using Bayesian Inference</p> <p><i>Chie Ishida, Yutaka Arakawa, Iwao Sasase, Keisuke Takemori</i></p> <p>On Demand Distributed Public Key Management for Wireless Ad Hoc Networks</p> <p><i>Yuko Kitada, Akira Watanabe, Iwao Sasase, Keisuke Takemori</i></p> <p>A Novel Framework for Network Intrusion Detection Using Learning Techniques</p>	Ahmed Awad (Cornett B108)

	<p><i>Wei Lu</i></p> <p>An Unsupervised Approach for Detecting DDoS Attacks Based on Traffic-based Metrics</p> <p><i>Wei Lu, Issa Traore</i></p> <p>A Research Facility for Evaluating Cyber-Security Approaches within Corporate-Scale Networks and under Operational Conditions</p> <p><i>Stephen Neville</i></p>	
S22: Traffic Scheduling	<p>Spare Capacity Allocation Design Schemes in Self-Healing ATM Networks</p> <p><i>Isaac Woungang, Sudip Misra</i></p> <p>Network Information Retrieval Method Controlled by Energy and Division Probability Parameters</p> <p><i>Katsunori Yamaoka, Takefumi Yonemaru, Aki Kobayashi, Yoshinori Sakai</i></p> <p>QoS Control Method to Reduce Resource Reservation Failure in Data Grid Applications</p> <p><i>Masaaki Noro, Ken-ichi Baba, Shinji Shimojo</i></p>	Stephen Neville (Cornett B111)
S23: Diversity	<p>Threshold-Based Hybrid Selection/Maximal-Ratio Combining in Equi-Correlated Nakagami Fading</p> <p><i>Xiaodi Zhang, Norman C. Beaulieu</i></p> <p>Implementation Complexity Analysis of Normalized Threshold Generalized Selection Combining</p> <p><i>Lei Xiao, Xiaodai Dong</i></p> <p>Loading Algorithms for Multicarrier Spatial Diversity Systems Employing Antenna Subset Selection</p> <p><i>Alexander Wyglinski, Fabrice Labeau, Peter Kabal</i></p>	Yunfei Chen (Cornett B112)

	<p>Performance of Selection Diversity in Non-Identically Distributed Weibull Fading Channels</p> <p><i>Raymond Kwan, Cyril Leung</i></p> <p>Performance Degradation of a Transmit Diversity Scheme Due to Correlated Fading</p> <p><i>Tao Zheng, Cyril Leung</i></p>	
S24: OFDM	<p>On the Performance of a Practical OFDM Adaptive Modulation Scheme using a Feedback Channel</p> <p><i>James Veilleux, Paul Fortier, Sébastien Roy</i></p> <p>Transmitter Nyquist Shaping for ICI Reduction in OFDM Systems with Carrier Frequency Offset</p> <p><i>Norman C. Beaulieu, Peng Tan</i></p> <p>A Recursive QR Detector for Space-Frequency Block Coded OFDM Systems with Four Transmit Antennas</p> <p><i>Siva Muruganathan, Abu Sesay</i></p> <p>New Peak-to-Average Power-Ratio Reduction Algorithms for OFDM Systems Using Constellation Extension</p> <p><i>Wu-Sheng Lu, Yajun Kou, Andreas Antoniou</i></p> <p>Cyclic-Prefix-Based Noise Variance and Power Delay Profile Estimation for OFDM Systems</p> <p><i>Tao Cui, Chintha Tellambura</i></p>	<p>Hong-Chuan Yang (Mac Laurin D103)</p>
S25: MUD	<p>Smart Maximum-Likelihood CDMA Multiuser Detection</p> <p><i>Saeed Fouladi Fard, Chintha Tellambura</i></p> <p>Near-optimal Low-complexity Detection for Space-division Multiple Access Wireless Systems</p> <p><i>Yue Wu, Tao Cui, Chintha Tellambura</i></p>	<p>Ivan Fair (Mac Laurin D110)</p>

	<p>Multiuser Detection for MC-CDMA System with M-QAM Using Semidefinite Programming Relaxation</p> <p><i>X. M. Wang, Zhiwei Mao</i></p> <p>Recursive Multiuser Detection for DS-UWB Systems</p> <p><i>Yihai Zhang, Wu-Sheng Lu, T. Aaron Gulliver</i></p> <p>An Iterative Intercarrier-Interference Reduction Algorithm for OFDM Systems</p> <p><i>Wu-Sheng Lu, Yajun Kou, Andreas Antoniou</i></p>	
<p>S26: Filters and Filter Banks Design/Implementation</p>	<p>Symmetric Extension for Quincunx Filter Banks</p> <p><i>Michael Adams, Yi Chen, Wu-Sheng Lu</i></p> <p>Bandlimited FIR Differentiators with High Stopband Attenuation and Low Stopband Energy</p> <p><i>Trevor Fox</i></p> <p>Power Efficient Rapid System Prototyping Using CoDeL: The 2D DWT Using Lifting</p> <p><i>Nainesh Agarwal, Nikitas Dimopoulos</i></p> <p>Design of Prototype Filters for Cosine-Modulated Filter Banks Using The Constrained Least-Squares Method</p> <p><i>Stuart Bergen</i></p>	<p>Stuart Bergen (Mac Laurin D116)</p>
12:10 – 13:30	Lunch (Human & Social Development Lobby - HSD A230)	
13:30 – 15:10	Papers	Chair
<p>S31: Image Processing</p>	<p>Simultaneous Fractal Image Denoising and Interpolation <i>Mohsen Ghazel, Rabab K. Ward, Rafeef Abugarbieh, Edward R. Vrscay, George H. Freeman</i></p> <p>Comparative Study of Different Fingerprint Compression Schemes</p>	<p>Yihai Zhang (Comett B108)</p>

	<p><i>Tareq Aziz, Md. Haque</i></p> <p>Color Personal ID Photo Compression Based on Object Segmentation</p> <p><i>Zhu Qiuyu, W. Suozhong</i></p> <p>Identification of the Best Quantization Table using Genetic Algorithms</p> <p><i>Leonardo Costa, A. C. P. Veiga</i></p> <p>An Abstract Content-Based Image Retrieval System Based on Activity Theory</p> <p><i>M. W. Yucha, Sreela Sasi</i></p>	
S32: Wireless Networks & Channels	<p>A Computationally Efficient Method for Estimating the Channel Impulse Response for the IEEE 802.11B (WLAN)</p> <p><i>Amit Kedia</i></p> <p>Improvement of Optical CDMA Communication Systems with Coherent Pulse and Time Coding</p> <p><i>Yasutaka Igarashi, Hiroyuki Yashima</i></p> <p>A Fault-Resilient 1-Exclusion Algorithm for Mobile Ad Hoc Networks</p> <p><i>Salahuddin Masum, Amin Ali, Md. Mostofa Akbar</i></p> <p>An Attendance Management System using Mobile Phones</p> <p><i>Hajime Shibata</i></p> <p>Phase Difference Statistics for Nakagami-m Fading Channels</p> <p><i>Chantri Polprasert, J. A. Ritcey</i></p>	Hong-Chuan Yang (Cornett B111)
S33: Circuit & Devices	<p>A New 12-b 40 MS/s, Low-Power, Low-Area Pipelined ADC for Video Analog Front Ends</p> <p><i>M. Mohajerin, C. Chen, Esam Abdel-Raheem</i></p>	Newaz Rafiq (Cornett B112)

Design and Optimization of Multi-TAP DFE for High-Speed Backplane Data Communications

Miao Li, Shoujun Wang, Jing Chen, Tad Kwasniewski

Incremental Communication for Multilayer Neural Networks in a Field Programmable Gate Array

Joshua Dick, Kenneth Kent

Templates for Reversible Circuit Simplification

Dmitri Maslov, Michael Miller, G. W. Dueck

Extended-Butterfly Fat Tree Interconnection (EFTI) Architecture for Network on Chip

Hemayet Hossain, M. M. Akbar, M. M. Islam

S34: QoS Support

A Study of a Path Reconfiguration for QoS Multicast Protocol for Live Streaming

Taro Hashimoto, Katsunori Yamaoka, Yoshinori Sakai

Extracting Client-Side Streaming QoS Information From Server Logs

Naomi Terada, Eiji Kawai, Hideki Sunahara

Differentiated Services for Wireless Networks

Mythili Enugula, Randa El-Marakby

Novel Broadcasting Schemes on Cube-Connected Cycles

Jywe-Fei Fang, C. Lee, E. Yen, R. Chen, Y. Feng

Limitations and Capabilities of QoS Support in IEEE 802.11 WLANS

José Miguel Villalón Millán, Pedro Angel Cuenca Castillo,

Stephen Neville
(Mac Laurin D103)

	<i>Luis Orozco-Barbosa</i>	
S35: Communication Theory	<p>Maximum Likelihood SNR Estimators for Digital Receivers <i>Yunfei Chen, Norman C. Beaulieu</i></p> <p>Noise Analysis of a Delay Discriminator <i>Tai-Wu Kao, S. Terapathana</i></p> <p>Interference Cancellation Technique Using Cycle-and-Add Property <i>Mariko Araki, Yoshikazu Yamaguchi, Mitsuo Yokoyama, Hideyuki Uehara</i></p> <p>An Iterative Hardware Gaussian Noise Generator <i>Amirhossein Alimohammad, Bruce F. Cockburn, Christian Schlegel</i></p>	<p>Abu Sesay (Mac Laurin D110)</p>
S36: Cryptography & Biometrics	<p>A New Technique for Speeding up Double Point Multiplication <i>Majid Khabbazian, T. Aaron Gulliver, Vijay K. Bhargava</i></p> <p>Performance Evaluation of Efficient Algorithms for Tate Pairing <i>Seiichi Matsuda, Atsuo Inomata, Takeshi Okamoto, Eiji Okamoto</i></p> <p>First Thoughts on Determining a Method for Fast Autocorrelation Classification <i>Jacqueline Rice</i></p> <p>A Method for Improving the Reliability of an Iris Recognition System <i>Milena Pereira, A. C. P. Veiga</i></p>	<p>Mohamed Fayed (Mac Laurin D116)</p>
15:10 – 15:30	Nutrition Break (Human & Social Development Lobby - HSD A230)	