

IEEE

May 4-7, Niagara Falls, Canada

CCECE 2008 CCGÉI

Schedule of Events

Session Code:

Day: Monday, Tuesday, Wednesday

Program: Morning, Afternoon, Evening

Session Number, Presentation Number

Example: WM03.06 = Wednesday Morning Session 3 Presentation 6

Procedure Page Numbers refer to the Conference CD

Edas Paper Numbers (last five digits) are shown thus: [12345]

IEEE

Plenary Session 1

Monday, May 5, 2008 at 8:15am in Oakes Ballroom

**Theory, Algorithms, and Practice:
A Way of Transforming University Research Results**

Presented by: Prof. En-hui Yang

**Canada Research Chair in Information Theory,
University of Waterloo**

Details Page 011

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Power Electronics and Systems
Session: MM01 Renewable Energy I
May 05 Time: 9:45 a.m. - 11:30 a.m. Room: Cree
Chair: Dr. Moschopoulos Gerry University of Western Ontario, Canada

Proceedings Page No.

- MM01.01: Calculation and Study on Cogging Torque of Small Wind Turbine PMSG [90911]** 589
Zhenhong Guo (University of New Brunswick, CA); Liuchen Chang (University of New Brunswick, CA)
- MM01.02: Flicker Contribution of a Wind Turbine in a Stand-Alone Wind-Diesel System [89747]** 233
Roohollah Fadaeinedjad (University of Western Ontario, CA); Gerry Moschopoulos (University of Western Ontario, CA); Mehrdad Moallem (Associate Professor, CA)
- MM01.03: Two-phase Converter Used For Wind Turbine PMSG Generation System [93295]** 1255
Zhenhong Guo (University of New Brunswick, CA); Liuchen Chang (University of New Brunswick, CA)
- MM01.04: Voltage and Energy Utilization Enhancement in a Stand-alone WECS Using a Fuzzy Logic Controlled PWM-Switched Dynamic Capacitor Compensation [93779]** 1631
Adel Sharaf (University of New Brunswick, CA); Ismail Altas (Karadeniz Technical University, TR); Emre Ozkop (Karadeniz Technical University, TR)
- MM01.05: Skin Effect Modeling of Self Excited Induction Generator in Wind Power Application [93735]** 1587
Khurshid Hafiz (University of Windsor, CA); Gaurav Nanda (University of Windsor, CA); Narayan Kar (University of Windsor, CA)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Power Electronics and Systems	
Session: MM02	Distributed Generation (DG) Systems	
May 05	Time: 9:45 a.m. - 11:30 a.m.	Room: Tuscarora
	Chair: Dr. Mamadou Lamine Doumbia	Universite de Quebec Trois-Rivieres, Canada
		Proceedings Page No.
MM02.01: Effect of Distributed Generation on Voltage Flicker in Distribution System: A Case Study [83325]		65
Walid Morsi (Dalhousie University, CA); Mohamed El-Hawary (Dalhousie University, CA)		
MM02.02: The Effect of Distributed Generation Modeling and Static Load representation on the Optimal Integrated Size and Network Losses [93709]		1543
Mohamad AlHajri (Dalhousie University, CA); Mohamed El-Hawary (Dalhousie University, CA)		
MM02.03: Random Operation of Distributed Generators Based on Generation Techniques [93043]		1203
Ayman Attya (German University in Cairo, EG); Yasser Hegazy (German University in Cairo, EG)		
MM02.04: Energy Management and Control of Aggregated Distributed Generations [92875]		1151
Yaosuo Xue (University of New Brunswick, CA); Liuchen Chang (University of New Brunswick, CA); B Venkatesh (University of New Brunswick, CA)		
MM02.05: Islanding Detection for Utility Interconnection of Multiple Distributed Generators [90883]		557
Mamadou Lamine Doumbia (Universite de Quebec à Trois-Rivieres, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Communications and Networking	
Session: MM05	Cooperative Communications I	
May 05	Time: 9:45 a.m. - 11:30 a.m.	Room: Canadiana
	Chair: Dr. Tho Le-Ngoc	McGill University, Canada
		Proceedings Page No.
MM05.01: Performance analysis of distributed Alamouti's code for cooperative diversity networks [82609]		61
MinChul Ju (Queen's University, CA); Hyoung-Kyu Song (Sejong University, KR); Il-Min Kim (Queen's University, CA)		
MM05.02: BER analysis for noncoherent FSK in two-hop relay networks [89743]		223
MinChul Ju (Queen's University, CA); Il-Min Kim (Queen's University, CA)		
MM05.03: Exact SNR Analysis in Multi-Hop Cooperative Diversity Networks [91163]		843
Il-Min Kim (Queen's University, CA); Zhihang Yi (Queen's University, CA); MinChul Ju (Queen's University, CA); Hyoung-Kyu Song (Sejong University, KR)		
MM05.04: Adaptive Coded Cooperative Relaying Schemes [91391]		991
Khuong Ho Van (McGill University, CA); Tho Le-Ngoc (McGill University, CA)		
MM05.05: Performance of Selection Combining In Cooperative Relaying Networks over Rayleigh Fading Channel [91151]		831
Salama Ikki (Memorial University of Newfoundland, CA); Mohamed Hossam Ahmed (Memorial University, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Signal and Multimedia Processing			
Session: MM07	Radar & Array Processing			
May 05	Time: 9:45 a.m. - 11:30 a.m.			Room: Hennepin North
	Chair: Dr. Sreeraman Rajan	DRDC - Ottawa, Canada.		

Proceedings Page No.

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|--|-------------|
| MM07.01: Impact of Mutual Coupling on Wideband Adcock Direction Finders [93435] | 1327 |
| Simon Henault (Royal Military College, CA); Sreeraman Rajan (DRDC-Ottawa, CA); Robert Inkol (DRDC-Ottawa, CA); Sichun Wang (Communications Research Centre, Industry Canada, CA); Yahia Antar (Royal Military College of Canada, CA) | |
| MM07.02: Alternate Amplitude Weighting Approach for Passive Source Localization Using the Energy-based Grid Search Algorithm [90939] | 647 |
| Sha Li (University of Saskatchewan, CA); Brian Daku (University of Saskatchewan, CA) | |
| MM07.03: Evaluation of Two IMM-based Algorithms in Real Radar Tracking Environments [93723] | 1569 |
| Zhen Ding (DRDC Ottawa, CA) | |
| MM07.04: On the Problem of Antenna Platform Motion for High Frequency Surface Wave Radar Applications [90801] | 471 |
| John Walsh (Memorial University and Northern Radar Inc., CA); Eric Gill (Memorial University, CA); Weimin Huang (Memorial University, CA) | |
| MM07.05: A Survey of Radar Resource Management Algorithms [93717] | 1559 |
| Zhen Ding (DRDC Ottawa, CA) | |

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Controls and Robotics	
Session: MM08	Control Systems I	
May 05	Time: 9:45 a.m. - 11:30 a.m.	Room: Oaks South
	Chair: Dr. Shahin Hashtrudi-Zaad	Concordia University, Canada
		Proceedings Page No.
MM08.01: A Direct Approach to Robust Supervisory Control of Discrete-event Systems [91281]		957
Xiao Yong Chen (Concordia University, CA); Shahin Hashtrudi Zad (Concordia University, CA)		
MM08.02: Fault Tolerant Ethernet Network Model For Control And Entertainment In Railway Transportation Systems [91095]		771
Hassanein Amer (American University in Cairo (AUC), EG); Mai Hassan (The American University in Cairo, EG); George Zaki (Cairo University, EG)		
MM08.03: Human-Analogous Network-Based Fuzzy Logic Control : A Case Study of Servo Control of a Cart Moving on a Linear Track [92753]		1113
Amir Heidari (University of Regina, CA); Mehran Mehrandezh (University of Regina, CA)		
MM08.04: Robust Neural Network Control of a Quadrotor Helicopter [93125]		1233
Chris Nicol (University of Calgary, CA); Chris Macnab (University of Calgary, CA); Alejandro Ramirez-Serrano (University of Calgary, CA)		
MM08.05: A Neural Network Type Feedback law for Linear Systems with Position and Rate Limited Actuators [90857]		517
Modjtaba Rouhani (Islamic Azad University, IR); Mohammad Bagher Menhaj (Amir Kabir University of Technology, IR)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Circuits, Devices and Systems
Session: MM09 Analog Integrated Circuits
May 05 Time: 9:45 a.m. - 11:30 a.m. Room: Chippawa
Chair: Dr. Stefano Gregori University of Guelph, Canada

Proceedings Page No.

- MM09.01: SoC Energy Savings = Reduce+Reuse+Recycle: A Case Study Using a 660MHz DC-DC Converter with Integrated Output Filter [91277]** 947
Guy Lemieux (University of British Columbia, CA); Mehdi Alimadadi (University of British Columbia, CA); Samad Sheikhaei (University of British Columbia, CA); Patrick Palmer (University of British Columbia, CA); Shahriar Mirabbasi (University of British Columbia, CA)
- MM09.02: A Study on CMOS Negative Resistance Circuits [93381]** 1283
Vishal Patel (Concordia University, CA); Rabindranath Raut (Concordia University, CA)
- MM09.03: Stacked-Ring Oscillator with Reduced Phase Noise [98731]** 2057
Jiawei Ren (Univeristy of Guelph, CA); Stefano Gregori (University of Guelph, CA)
- MM09.04: Short Time Interval Measurement Using a Time Amplifier [90509]** 321
Rashid Rashidzadeh (University of Windsor, CA); Majid Ahmadi (University of Windsor, CA)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Circuits, Devices and Systems	
Session: MM10	Optimization Techniques for Microsystems	
May 05	Time: 9:45 a.m. - 11:30 a.m.	Room: Huron
	Chair: Dr. Shawki Areibi	University of Guelph, Canada
		Proceedings Page No.
MM10.01: An Easy Tune-up Exponentially Fast Annealer for High-quality Analog Module Placement [90871]		547
Lihong Zhang (Memorial University of Newfoundland, CA)		
MM10.02: An Effective Congestion-Based Integer Programming Model for VLSI Global Routing [91265]		931
Laleh Behjat (University of Calgary, CA); Andy Chiang (University of Calgary, CA); Logan Rakai (University of Calgary, CA); Jianhua Li (University of Calgary, CA)		
MM10.03: Diffusion Characters: Breaking the Spectral Barrier [91165]		847
Daniel Ashlock (University of Guelph, CA)		
MM10.04: FPGA Placement Optimization Methodology Survey [94955]		1981
Lee Sang-Joon (Ryerson University, CA); Kaamran Raahemifar (Ryerson University, CA)		
MM10.05: Zero Skew Clock Routing for Fast Clock Tree Generation [72241]		23
Mamun Reaz (International Islamic University Malaysia, MY); Nowshad Amin (National University of Malaysia, MY); Muhammad Ibrahimy (International Islamic University Malaysia, MY); Faisal Md Yasin (Multimedia University, MY); Florence Choong Chiao Mei (Multimedia University, MY)		

IEEE

Keynote Presentation

Monday, May 5, 2008 at 12:30pm in Oakes North Ballroom

Decision Aggregation and Cooperative Training in Classifier Ensembles

Prof. Mohamed Kamel

**Canada Research Chair in Co-operative Intelligent Systems
University of Waterloo**

Details Page 019

Notes

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Power Electronics and Systems
Session: MA01 Power Systems I
Monday, May 5 Time: 1:30 p.m. - 3:15 p.m. Room: Cree
Chair: Dr. Hatem Zeineldin Masdar Institute of Science and Technology, USA
Proceedings Page No.

- MA01.01: Computer Network Distributed Monitoring and Centralized Forecasting of Utility Distribution System Operations [93841] 1719**
Alexander Hamlyn (Ryerson University, CA); Helen Cheung (Ryerson University, CA); Cungang Yang (Ryerson University, CA)
- MA01.02: Network Security Authentication of Power System Operations [93823] 1687**
Helen Cheung (Ryerson University, CA); Alexander Hamlyn (Ryerson University, CA); Cungang Yang (Ryerson University, CA)
- MA01.03: Optimal Coordination of Microprocessor Based Directional Overcurrent Relays [90179] 289**
Hatem Zeineldin (Masdar Institute of Science and Technology, US)
- MA01.04: Optimal PMU Placement for Power System Observability Considering Secondary Voltage Control [90635] 365**
Seyed Hosseini (Sharif University of Technology, IR)
- MA01.05: Network-Facilitated Voltage Stability Control Strategy for Power Distribution Systems [93973] 1849**
Lin Wang (Ryerson University, CA); Helen Cheung (Ryerson University, CA); Alexander Hamlyn (Ryerson University, CA); Cungang Yang (Ryerson University, CA)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Biomedical Engineering
Session: MA02 Biomedical Instrumentation
Monday, May 5 Time: 1:30 p.m. - 3:15 p.m.
Chair: Dr. Mohamad Sawan

Room: Auditorium
Ecole Polytechnique de Montreal, Canada

Proceedings Page No.

- MA02.01: CMOS Capacitive Sensor System for Bacteria Detection using Phage Organisms [91205]** **877**
Lei Yao (McGill University, CA); Mohamad Hajj-Hassan (McGill University, CA); Ebrahim Ghafar-Zadeh (McGill University, CA); Arghavan Shabani (BioPhage Pharma, CA); Vamsy Chodavarapu (McGill University, CA); Mohammed Zourob (BioPhage Pharma, CA)
- MA02.02: Subthreshold transistor operation for a high sensitivity capacitive sensor [93813]** **1671**
Amine Miled (Ecole Polytechnique of Montreal, CA); Mohamad Sawan (École Polytechnique de Montréal, CA)
- MA02.03: Effect of Velocity Control on Kinesthetic Lung Tumour Localization [93453]** **1337**
Michael Naish (University of Western Ontario, CA); Greig McCreery (Canadian Surgical Technologies & Advanced Robotics, CA); Ana Luisa Trejos (London Health Sciences Centre, CA); Rajni Patel (University of Western Ontario, CA); Richard Malthaner (University of Western Ontario, CA)
- MA02.04: FPGA Implementation of a Fully Digital Demodulation Technique for Biomedical Application [93335]** **1265**
Mohammad Zarifi (University of Tabriz, IR); Javad Frounchi (University of Tabriz, IR); Sanaz Asgarifar (University of Tabriz, IR); Mehdi Baradaran Nia (PhD student of Tabriz university, IR)
- MA02.05: A High Speed Low Power Analog to Digital Converter for Biomedical Application [93341]** **1269**
Mohammad Zarifi (University of Tabriz, IR); Javad Frounchi (University of Tabriz, IR); Sanaz Asgarifar (University of Tabriz, IR); Mehdi Baradaran Nia (PhD student of Tabriz university, IR); Fahimeh Dehkhoda (University of Tabriz, IR)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Communications and Networking	
Session: MA03	Genetic Algorithms and Neural Network Modeling	
Monday, May 5	Time: 1:30 p.m. - 3:15 p.m.	Room: Chippawa
	Chair: Dr. Saeed Gazor	Queens University
		Proceedings Page No.
MA03.01: Array Pattern Null Steering using Genetic Algorithm by Element Position Perturbations [90741]		423
Paria Sattari (University of Western Ontario, CA); Nima Hejazi (University of Western Ontario, CA)		
MA03.02: A New Kalman-Maximum Likelihood Based Channel Tracking for Correlated MIMO Fading Channels in Assistance with Genetic Algorithm [93933]		1823
Mehdi Seyfi (Shiraz university, IR); Mehrzad Biguesh (Shiraz University, IR); Saeed Gazor (Queen's University, CA)		
MA03.03: Frequency Estimation Using Back-Propagation Neural Networks for a Frequency Hopped Spread Spectrum Receiver [91115]		797
Usman Mansoor (College of E&ME, NUST, PK); Aun Ifikhar (College of E&ME, NUST, PK); Qasim Maqbool (National University of Sciences and Technology, Pakistan., PK); Shoab Khan (Centre for Advanced Studies in Engineering, Islamabad, Pakistan, PK); Muhammed Asim Ajaz (National University of Sciences and Technology, Pakistan., PK)		
MA03.04: A Hybrid Approach Involving Artificial Neural Network and Ant Colony Optimization for Direction of Arrival Estimation [92551]		1059
Hamed Movahedi pour (Tarbiat modares, IR)		
MA03.05: A Pilot-aided Neural Network for Modeling and Identification of Nonlinear Satellite Mobile Channels [93707]		1539
Mohamed Ibnkahla (Queen's University, CA); Yu Cao (Queen's University, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Communications and Networking	
Session: MA04	Resource Allocation and Scheduling in Wired/Wireless Networks	
Monday, May 5	Time: 1:30 p.m. - 3:15 p.m.	Room: Canadiana
	Chair: Dr. Floriano De Rango	University of Calabria, Italy
		Proceedings Page No.
MA04.01: Channel Assignment in an IEEE 802.11 WLAN Based on Signal-to-interference Ratio [92894]		1169
Mohamad Haidar (Ecole de Technologie Superieure, CA); Rabindra Ghimire (University of Arkansas at Little Rock, US); Hussain Al-Rizzo (University of Arkansas at Little Rock, US); Robert Akl (University of North Texas, US); Yupo Chan (University of Arkansas at Little Rock, US)		
MA04.02: EPON: An Extensive Review for up-to-date Dynamic Bandwidth Allocation Schemes [90851]		511
Sattar Hussain (Ryerson University, CA); Xavier Fernando (Ryerson University, CA)		
MA04.03: Convergence-speed enhancement of two classes of (w,a)-fair rate allocation algorithm [59232]		1
Pejman Goudarzi (Iran Telecomm Research Center, IR)		
MA04.04: Delay-sensitive and Channel-aware Scheduling in Next Generation Wireless Networks [93909]		1801
Dzung Ho-Quang (McGill University, CA); Mohamed Ashour (McGill University, CA); Tho Le-Ngoc (McGill University, CA)		
MA04.05: A 2D Movement Direction-Based Reservation Scheme for WLAN Clusters with Passive Advanced Reservations [93808]		1663
Peppino Fazio (University of Calabria, IT); Floriano De Rango (University of Calabria, IT); Salvatore Marano (University of Calabria, IT)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Communications and Networking	
Session: MA05	Security and Authentication in Wired/Wireless Networks	
Monday, May 5	Time: 1:30 p.m. - 3:15 p.m.	Room: Ontario
	Chair: Dr. T. Yang	Ryerson University, Canada.
		Proceedings Page No.
MA05.01: Asymmetric distribution of computations in Internet Key Exchange protocol [93687]		1517
Mohamad Karbasioun (Network security, IR); Mehdi Berenjkoub (IUT, IR); Bahar Taji (Network Security, IR)		
MA05.02: An Optimal Management Domain Deployment Scheme of Hierarchical AAA in Mobile IPv6 Networks [90595]		351
Li Wang (Beijing University of Posts and Telecommunications, CN)		
MA05.03: Design and Analysis of a Security Assessment Framework to Achieve Discrete Security Values of Wireless Sensor Networks [91171]		855
Adnan Arain (Mehran University of Engineering and Technology, PK)		
MA05.04: Using Cost Measures and Model Simplicity to Extrapolate Performance in Network Intrusion Detection Systems [93905]		1791
Leanne Seaward (University of Ottawa, CA); Amiya Nayak (SITE, University of Ottawa, CA)		
MA05.05: On the Nonlinearity Profile of Cryptographic Boolean Functions [93891]		1767
Esam Elsheh (Concordia University, CA); Abdessamd Ben Hamza (Concordia University, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Signal and Multimedia Processing	
Session: MA06	Image & Video Processing I	
Monday, May 5	Time: 1:30 p.m. - 3:15 p.m.	Room: Hennepin South
	Chair: Dr. Kaamran Raahemifar	Ryerson University, Canada.
		Proceedings Page No.
MA06.01: Cooperative Hybrid Multi-camera Tracking for People Surveillance [93477]		1365
Yan Lu (Simon Fraser University, CA); Shahram Payandeh (Simon Fraser University, CA)		
MA06.02: Distributed Video coding and Transmission over Wireless fading channel [93681]		1513
Kuganeswaran Thambu (Dept of Electrical and Computer Engineering, CA); Xavier Fernando (Ryerson University, CA); Ling Guan (Ryerson University, CA)		
MA06.03: Towards An Intelligent Tele-Surveillance System for Public Transport Areas: Fuzzy Logic Based Camera Control [94965]		1987
Bassem Barake (University of Ottawa, CA); Abdulmotaleb El Saddik (University of Ottawa, CA); Jiying Zhao (University of Ottawa, CA)		
MA06.04: Computerized Recognition of Human Gestures [91565]		1003
Adrian Bulzacki (Ryerson University, CA); Lian Zhao (Ryerson University, CA); Ling Guan (Ryerson University, CA); Kaamran Raahemifar (Ryerson University, CA)		
MA06.05: Fast Image Segmentation Using C-means Based Fuzzy Hopfield Neural Network [93979]		1855
Farhad Mohamad Kazemi (Payame Noor University, IR); Mohammad reza Akbarzadeh Totoonchi (My professor, IR); Saeid Rahati (Azad University of Mashad, IR); Habib Rajabi Mashhadi (Ferdowsi university, IR)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Signal and Multimedia Processing
Session: MA07 Speech & Audio Processing I
Monday, May 5 Time: 1:30 p.m. - 3:15 p.m. Room: Hennepin North
Chair: Dr. Douglas O' Shaughnessy INRS-nergie-Matériaux-Tlcommunications, Canada

Proceedings Page No.

- MA07.01: Speech Enhancement Employing a Sigmoid -Type Gain Function with a Modified A priori Signal-to-Noise Ratio (SNR) Estimator [90931]** **631**
Md. Jahangir Alam (INRS Énergie, Matériaux et Télécommunications, CA); Douglas O'Shaughnessy (INRS-Énergie-Matériaux-Télécommunications, CA); Sid-Ahmed Selouani (Université de Moncton, campus of Shippagan, CA)
- MA07.02: On the Estimation of Pitch of Noisy Speech based on Time and Frequency Domain Representations [93921]** **1819**
Celia Shahnaz (Concordia University, CA); Wei-Ping Zhu (Concordia University, CA); M. Omair Ahmad (Concordia University, CA)
- MA07.03: Improved colored noise handling in Kalman filter-based speech enhancement algorithms [90825]** **497**
Frederic Mustiere (University of Ottawa, CA); Miodrag Bolic (University of Ottawa, CA); Martin Bouchard (University of Ottawa, CA)
- MA07.04: Incorporating Phonetic Knowledge into a Multi-Stream HMM Framework [93835]** **1705**
ATTA Norouzian (University of Quebec (INRS-EMT), CA); Sid-Ahmed Selouani (Université de Moncton, campus of Shippagan, CA); Hesham Tolba (University of Quebec (INRS-EMT), CA); Douglas O'Shaughnessy (INRS-Énergie-Matériaux-Télécommunications, CA)
- MA07.05: parcimonious time frequency quantization for phoneme and speaker classification [93703]** **1531**
Fraihat SALAM (Université du Sud Toulon-Var / LSIS, FR); Nidhal Ben Aloui (LSIS Toulon, FR); Hervé Glotin (Université du Sud Toulon-Var / LSIS, FR)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Controls and Robotics	
Session: MA08	Mechanism Design for Robotic Applications	
Monday, May 5	Time: 1:30 p.m. - 3:15 p.m.	Room: Oaks South
	Chair: Dr. Gary Bone	McMaster University, Canada
		Proceedings Page No.
MA08.01: Design of a Small-Scale Autonomous Amphibious Vehicle [91107]		781
Michael Frejek (University of Ontario Institute of Technology, CA); Scott Nokleby (University of Ontario Institute of Technology, CA)		
MA08.02: Design of Foam Covering for Robotic Arms to Ensure Human Safety [92873]		1145
Gary Bone (McMaster University, CA)		
MA08.03: Docking Joint for Autonomous Self-assembly [92117]		1025
Mehdi Delrobaei (University of Western Ontario, CA); Kenneth McIsaac (The University of Western Ontario, CA)		
MA08.04: Adhesive Mechanical Fastener Design for Use in Microassembly [92681]		1093
Lidai Wang (University of Toronto, CA); James Mills (University of Toronto, CA); William Cleghorn (University of Toronto, CA)		
MA08.05: A Survey on Real-time Controlled Multi-Fingered Robotic Hand [91351]		975
Ze Yu (Dalhousie University, CA); Jason Gu (Dalhousie University, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Circuits, Devices and Systems
Session: MA09 Digital Integrated Circuits
Monday, May 5 Time: 1:30 p.m. - 3:15 p.m. Room: Tuscarora
Chair: Dr. Khan Wahid University of Saskatchewan, Canada

Proceedings Page No.

- MA09.01: A Decimal-to-Decimal Antilogarithmic Converter [93115]** 1223
Dongdong Chen (University of Saskatchewan, CA); Li Chen (University of Saskatchewan, CA); Daniel Teng (University of Saskatchewan, CA); Khan Wahid (University of Saskatchewan, CA); Seok-Bum Ko (University of Saskatchewan, CA)
- MA09.02: Improved current flattening circuit using current injection, voltage regulation and frequency switching [98741]** 2061
Haleh Vahedi (University of Guelph, CA); Stefano Gregori (University of Guelph, CA); Radu Muresan (University of Guelph, CA)
- MA09.03: Time/Logic variables used for digital hazard search [90577]** 343
Nicolae Galupa (Technical University of Iasi, RO)
- MA09.04: New Improved 1-Bit Full Adder Cells [91053]** 735
Sreehari Veeramachaneni (International Institute of Information Technology, IN); Srinivas Mandalika (International Institute of Information Technology, IN)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Circuits, Devices and Systems
Session: MA10 Microsystem Design
Monday, May 5 Time: 1:30 p.m. - 3:15 p.m. Room: Huron
Chair: Dr. Medhat Moussa University of Guelph, Canada

Proceedings Page No.

- MA10.01: A New Hardware Architecture for Sampling the Exponential Distribution [93509]** **1393**
Tarek Ould Bachir (École Polytechnique de Montréal, CA); Mohamad Sawan (École Polytechnique de Montréal, CA); Jean-Jules Brault (École Polytechnique de Montréal, CA)
- MA10.02: Debug Port Controller Architectures for System-on-Chip Integrated Circuits [93749]** **1605**
Dimitry Akselrod (McMaster university, CA); Arie Margulis (Advanced Micro Devices, CA)
- MA10.03: Hybrid Bus-Invert Coding for RLC Coupling-Aware On-Chip Buses [92887]** **1161**
Md. Sajjad Rahaman (University of Illinois at Chicago, US)
- MA10.04: VLSI Thermal Stress Monitoring using GDS Method [90737]** **417**
Ahmed Lakhsasi (Université du Québec en Outaouais, CA); Mohammed Bougataya (Université du Québec en Outaouais, CA); Charbel Boustany (UQO, CA); Daniel Massicotte (Université du Québec a Trois-Rivieres, CA)
- MA10.05: Fuzzy Arbiter Based Multi Core System-on-Chip Integrated Controller for Automotive Systems: A Design Approach [94865]** **1937**
Dinesh Padole (G H Raison College of Engineering, nagpur, IN)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Power Electronics and Systems
Session: ME01 Power Converters and Drives I
Monday, May 5 Time: 3:30 p.m. - 5:15 p.m. Room: Cree
Chair: Dr. Bin Wu Ryerson University, Canada

Proceedings Page No.

ME01.01: A Simple Induction Machine Model for Predicting Low Frequency Dynamics [93799] 1655
Sina Chini Foroosh (University of British Columbia, CA); Liwei Wang (University of British Columbia, CA); Juri Jatskevich (University of British Columbia, CA)

ME01.02: A hybrid control method for six-phase permanent synchronous machine [90903] 575
Wang Zitao (University of New Brunswick, CA); Liuchen Chang (University of New Brunswick, CA)

ME01.03: Speed Sensorless PWM Robust Control of Induction Machines [64629] 5
Oscar Barambones (University of the Basque Country, ES); Patxi Alkorta (University of the Basque Country, ES); Aitor Garrido (University of the Basque Country, ES); Izaskun Garrido (University of the Basque Country, ES)

ME01.04: Sliding Mode Control of Three-Phase Four-Wire Shunt Active Power Filter [90765] 443
Nassar Mendalek (Notre-Dame University - Louaize, Lebanon, LB)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Biomedical Engineering
Session: ME02 Biomedical Signal Processing I
Monday, May 5 Time: 3:30 p.m. - 5:15 p.m. Room: Auditorium
Chair: Dr. Anh Dinh University of Saskatchewan, Canada.

Proceedings Page No.

- ME02.01: Computer Model Study of Magnitude and Phase Relations of Arterial Pressure in Response to Respiratory Fluctuations [93967] 1837**
Younhee Choi (University of Saskatchewan, CA); Seok-Bum Ko (University of Saskatchewan, CA); Yang Shi (University of Saskatchewan, CA); Anh Dinh (University of Saskatchewan, CA)
- ME02.02: Low Cost Thermal Measurement of Pulse-Transit-Time [93885] 1759**
Matthew James (University of Guelph, CA); Stefano Gregori (University of Guelph, CA); Dalia Fayek (University of Guelph, CA)
- ME02.03: Characterization of Healthy and Epileptic Brain EEG Signals Monofractal and Multifractal Analysis [93537] 1407**
Amir Meghdadi (University of Manitoba, CA); Witold Kinsner (University of Manitoba, CA); Reza Fazel-Rezai (University of Manitoba, CA)
- ME02.04: A brain-controlled 3D sonar scanner [93721] 1565**
Adam Love (University of Western Ontario, CA); Ervin Sejdic (University of Toronto, CA); Malgorzata Markowski (University of Western Ontario, CA); Matthew Waxer (University of Western Ontario, CA); J. Morton (University of Western Ontario, CA); Robert Sobot (The University of Western Ontario, CA)
- ME02.05: IRIS-HSVD for automatic MRS data quantification [93943] 1827**
Xin Wang (University of Cincinnati, US); Jing-Huei Lee (University of Cincinnati, US)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Communications and Networking
Session: ME03 Multimedia Communications, Networking, and Mobile Computing
Monday, May 5 Time: 3:30 p.m. - 5:15 p.m. Room: Ontario
Chair: Dr. Grant A. Jacoby United States Military Academy, USA

Proceedings Page No.

ME03.01: Light-Weight IP Multimedia Subsystem (IMS) Client for Mobile Devices [90791] **453**
Moshe Masonta (Tshwane University of Technology, ZA)

ME03.02: Transition within SIP Based Multi-Party Communication: From Tightly-Coupled to Fully-Coupled Conference [91227] **905**
Wajdi Elleuch (Université de Sherbrooke, CA); Alain Houle (Université de Sherbrooke, CA)

ME03.03: RT-TORA: A TORA Modification for Real-Time Interactive Applications [93529] **1403**
Allaa Hilal (German Univerity in Cairo, EG); Amal Elnahas (The German University in Egypt, EG); Ahmed Bashandy (Cairo University, US)

ME03.04: A Reconfiguration of Mobile Clustering Architecture for Enhanced and Reliable Small Unit Computing [92115] **1019**
Grant Jacoby (United States Military Academy, US); Shawn Mosley (US Army, US)

ME03.05: The Impact of Mobility Users on DS-UWB System Performance [93810] **1667**
Florian De Rango (University of Calabria, IT); Fiore Veltri (University of Calabria, IT); Salvatore Marano (University of Calabria, IT)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Communications and Networking
Session: ME04 Cooperative Communications II
Monday, May 5 Time: 3:30 p.m. - 5:15 p.m. Room: Canadiana
Chair: Dr. Nandana Rajatheva Asian Institute of Technology, Thailand
Proceedings Page No.

ME04.01: SEP Formula for Single Relay Selection in a Multiple Relay Environment over Rayleigh Fading Channels [94831]	1931
Nandana Rajatheva (Asian Institute of Technology, TH); Subodha Gunawardena (Asian Institute of Technology, TH)	
ME04.02: Throughput Enhancement in Cooperative Diversity Wireless Networks using Adaptive Modulation [90863]	527
Hao Chen (Memorial University, CA); Mohamed Hossam Ahmed (Memorial University, CA)	
ME04.03: A Novel Relay Selection Method for Decode-and-Forward Relaying [87627]	135
Muhammad Mehboob Fareed (University of Waterloo, CA); Murat Uysal (University of Waterloo, CA)	
ME04.04: Two Channel Estimation Methods for Amplify-and-Forward Relay Networks [90921]	615
Berna Gedik (University of Waterloo, CA); Murat Uysal (University of Waterloo, CA)	

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Computer Systems and Applications	
Session: ME05	Networks and Distributed Computing	
Monday, May 5	Time: 3:30 p.m. - 5:15 p.m.	Room: Chippawa
	Chair: Dr. Eddie Law	Ryerson University, Canada
		Proceedings Page No.
ME05.01: Web Page Clustering Using Harmony Search Optimization [93743]		1601
Rana Forsati (Karaj Azad University, IR); Mehrdad Mahdavi (Sharif University of Technology, IR); Mohammadreza Kangavari (Iran University of Science & Technology (IUST), IR); Banafsheh Safarkhani (Tehran Azad University, IR)		
ME05.02: A Blended Approach for Search of Learning Objects [93911]		1805
Yevgen Biletskiy (University of New Brunswick, CA)		
ME05.03: Fault-tree based evaluation of tiered autonomic systems [93641]		1477
Olivia Das (Ryerson University, CA); Arindam Das (York University, CA)		
ME05.04: Code Distribution and Data Fusion in Networks; A Case Study using Overlays [93822]		1683
Sunny So (ViXS Systems Inc, CA); Eddie Law (Ryerson University, CA)		
ME05.05: Simple Slow-Start and a Fair Congestion Avoidance for TCP Communications [93896]		1771
Wing-Chung Hung (Inqgen Innovations Inc., CA); Eddie Law (Ryerson University, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Signal and Multimedia Processing	
Session: ME06	Signal Processing I	
Monday, May 5	Time: 3:30 p.m. - 5:15 p.m.	Room: Hennepin South
	Chair: Dr. Sreeraman Rajan	DRDC - Ottawa, Canada.
		Proceedings Page No.
ME06.01: An Algorithm for the Identification of Autoregressive Moving Average Systems from Noisy Observations [93917]		1815
Shaikh Anowarul Fattah (Concordia University, CA); Wei-Ping Zhu (Concordia University, CA); M. Omair Ahmad (Concordia University, CA)		
ME06.02: Adaptive Windowing in Nonparametric Power Spectral Density Estimation [92935]		1183
Soosan Beheshti (Ryerson, CA); Maryam Ravan (University of Toronto, CA)		
ME06.03: Crossing-Point Estimation for Sampled Random Signals [89193]		193
Graeme Smecher (McGill University, CA); Benoit Champagne (McGill University, CA)		
ME06.04: Prediction-compensated Multiple Description Coding with Optimal Weighted Reconstruction [91229]		909
Jing Wang (Simon Fraser University, CA); Jie Liang (Simon Fraser University, CA)		
ME06.05: Comparison of Gaussian and Pearson Approximations to the Normalized Detection Threshold for the FFT Filter Bank-Based Summation CFAR Detector [92433]		1049
Sichun Wang (Communications Research Centre, Industry Canada, CA); François Patenaude (Communications Research Centre, CA); Robert Inkol (DRDC-Ottawa, CA); Sreeraman Rajan (DRDC-Ottawa, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Signal and Multimedia Processing
Session: ME07 Speech & Audio Processing II
Monday, May 5 Time: 3:30 p.m. - 5:15 p.m. Room: Hennepin North
Chair: Mr. Dave Hermann ON Semiconductor, Canada

Proceedings Page No.

ME07.01: Oversampled Filter Bank Evaluation for Joint Subband Audio Processing and Coding [90879] **551**

David Hermann (AMI Semiconductor Canada, CA); Edward Chau (AMI Semiconductor Canada, CA); Robert Dony (University of Guelph, CA); Shawki Areibi (University of Guelph, CA)

ME07.02: A Two-Stage Algorithm for Multiple Description Predictive Coding [90999] **685**

Upul Samarawickrama (Simon Fraser University, CA); Jie Liang (Simon Fraser University, CA)

ME07.03: The Loudspeaker as a Measurement Sweep Generator for the Derivation of the Acoustical Impulse Response of a Concert Hall [90257] **301**

Douglas Frey (University of Calgary, CA); Victor Coelho (Boston University, US); Rangaraj Rangayyan (University of Calgary, Schulich School of Engineering, CA)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Controls and Robotics	
Session: ME08	Mobile Robots	
Monday, May 5	Time: 3:30 p.m. - 5:15 p.m.	Room: Oaks South
	Chair: Dr. Mike Eklund	University of Ontario Institute of Technology, Canada
		Proceedings Page No.
ME08.01: Leader-Follower Formation Control For A Team Of Mobile Robots Using An Acoustic Array [87203]		119
Michael Hegedus (University of Regina, CA); Mehran Mehrandehz (University of Regina, CA); Raman Paranjape (University of Regina, CA)		
ME08.02: Control of a Novel Omni-Directional Platform [91077]		761
Steven Bemis (University of Ontario Institute of Technology, CA); Brian Riess (University of Ontario Institute of Technology, CA); Scott Nokleby (University of Ontario Institute of Technology, CA)		
ME08.03: Towards Command and Control Networking of Cooperative Autonomous Robotics for Military Applications (CARMA) [91135]		815
Grant Jacoby (United States Military Academy, US); David Chang (United States Military Academy, US)		
ME08.04: A simple visual compass with learned pixel weights [93733]		1581
Andrew Vardy (Memorial University of Newfoundland, CA)		
ME08.05: A control system for automated multi-purpose vehicle for manufacturing applications [95009]		2015
Philip Peco (University of Ontario Institute of Technology, CA); Mike Eklund (University of Ontario Institute of Technology, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Circuits, Devices and Systems
Session: ME09 Mixed Signal and High Frequency Circuits
Monday, May 5 Time: 3:30 p.m. - 5:15 p.m. Room: Tuscarora
Chair: Dr. Robert Sobot University of Western Ontario, Canada

Proceedings Page No.

- ME09.01: A 43-GHz Static Frequency Divider in 0.13 μ m Standard CMOS [86706] 111**
Bangli Liang (Carleton University, CA); Dianyong CHEN (Carleton University, CA); Bo Wang (Carleton University, CA); Dezhong Cheng (Carleton University, CA);
Tad Kwasniewski (Carleton Univ., CA)
- ME09.02: A Low Power and Wide Frequency Range Voltage Controlled Oscillator with Quadrature Outputs [93639] 1473**
Nima Haghighi (Ryerson University, CA); Kaamran Raahemifar (Ryerson University, CA)
- ME09.03: A New Approach to Design a Frequency Synthesizer Using Direct Digital Synthesis Technique [93857] 1733**
Pouya Aflaki (University of Calgary, CA); Renato Negra (University of Calgary, CA); Abbas Mohammadi (Amir Kabir University, IR); Fadhel Ghannouchi (Schulich
School of Engineering, Univ. of Calgary, CA)
- ME09.04: Calibration Automatique de la Porteuse Résiduelle [93351] 1273**
Rachida Touhami (Université des Sciences et de La Technologie HOUARI BOUMEDIENE, DZ); Smail Tedjini (LCIS-ESISAR-INPG, FR); Mustapha Yagoub
(University of Ottawa, CA)
- ME09.05: An Adjustable Design for the Real Time Clock of High-End Server Systems [88847] 183**
Y. Bai (Fu Jen Catholic University, TW); Hsiao-Chung Chen (Fu Jen Catholic University, TW)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Circuits, Devices and Systems	
Session: ME10	Sensors and MEMS	
Monday, May 5	Time: 3:30 p.m. - 5:15 p.m.	Room: Huron
	Chair: Dr. Karim Karim	University of Waterloo, Canada
		Proceedings Page No.
ME10.01: Large Area Direct X-Ray Conversion Detector for Protein Crystallography [91483]		995
Afrin Sultana (University of Waterloo, CA); John Rowlands (University of Toronto, CA); Karim Karim (University of Waterloo, CA)		
ME10.02: Tapered long-period grating (TLPG) with Teflon AF coating for pressure sensing applications [91181]		861
Jiahua Chen (Université du Québec en Outaouais, CA)		
ME10.03: Design of a PZT-based MEMS Rotman lens [92799]		1121
Ahmad Sinjari (University of Windsor, CA); Sazzadur Chowdhury (University of Windsor, CA)		
ME10.04: Six-Port FMCW Collision Avoidance Radar Sensor Configurations [90305]		305
Bouraima Boukari (Institut national de la recherche scientifique, CA); Emilia Moldovan (Institut national de la recherche scientifique, CA); Sofiene Affes (INRS - Centre Energie, Matériaux et Télécommunications, CA); Ke Wu (École Polytechnique de Montréal, CA); Renato Bosisio (University of Montreal-Ecole Polytechnique, CA); Serioja Ovidiu Tatu (Institut National de la Recherche Scientifique - INRS, CA)		
ME10.05: An Electro-Optic Hybrid Methane Sensor [91297]		969
Sergey Zadornov (IRE RAS, CA); Alexander Sokolovsky (IRE RAS, RU)		

IEEE

IEEE Canada Awards Reception and Banquet

MONDAY, May 5, 2008 - 18.00-22.00 Oakes Ballroom

**The Conference Awards Banquet will honour recipients of IEEE Canada awards.
It begins with a cocktail reception at 18:00 and dinner at 18:30.**

OPEN TO ALL DELEGATES TICKET REQUIRED (included with full registration)
(Additional tickets may be purchased at the Registration booth for \$100.)

Awards Banquet - sponsored by IEEE Canada

IEEE

Plenary Session 2

Tuesday, May 6, 2008 at 8:15am in Oakes Ballroom

**Negative-Refractive-Index Transmission-Line (NRI-TL) Metamaterials
And Their Applications**

Prof. George V. Eleftheriades

**Canada Research Chair in Nano-structured Materials
and Velma M. Rogers Graham Chair in Engineering
University of Toronto**

Details Page 013

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Power Electronics and Systems
Session: TM01 Renewable Energy II
Tuesday, May 6 Time: 9:45 a.m. - 11:30 a.m. Room: Cree
Chair: Dr. Mao Meiqin Hefei University of Technology, China

Proceedings Page No.

- TM01.01: Fuzzy-Logic-Based Maximum Power Point Tracking Strategy For PMSG Variable-Speed Wind Turbine Generation Systems [90733]** 405
Qingrong Zeng (University of New Brunswick, CA); Liuchen Chang (University of New Brunswick, CA); Riming Shao (University of New Brunswick, CA)
- TM01.02: Improving Power Quality in Remote Wind Energy Systems Using Battery Storage [93869]** 1743
Tarek Aboul-Seoud (University of New Brunswick, CA); Juri Jatskevich (University of British Columbia, CA)
- TM01.03: Controller for 1KW-5KW Wind-Solar Hybrid Generation System [92899]** 1175
Meiqin Mao (Hefei University of Technology, CN); JianHui Su (Hefei University of Technology, CN); Liuchen Chang (University of New Brunswick, CA)
- TM01.04: Output Power Maximizing of a Wind Turbine by Adjusting Rotor Speed [93737]** 1591
Adel Nasiri (University of Wisconsin-Milwaukee, US); Tin Luu (University of Wisconsin-Milwaukee, US)
- TM01.05: A Novel Speed Control Algorithm for PMSG Wind Turbines Aimed at Output Power Smoothing [93741]** 1597
Adel Nasiri (University of Wisconsin-Milwaukee, US); Tin Luu (University of Wisconsin-Milwaukee, US); Asghar Abedini (University of Wisconsin-Milwaukee, US)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Power Electronics and Systems
Session: TM02 Power Converters and Drives II
Tuesday, May 6 Time: 9:45 a.m. - 11:30 a.m. Room: Tuscarora
Chair: Dr. Natarajan Krishnamoorthy Lakehead University, Canada

Proceedings Page No.

TM02.01: A Hybrid Bi-Directional Current Source Converter with Two Force- Commutated Switches and Controlled with Space Vector Modulation [88491] 173
Maged Barsom (Concordia University, CA)

TM02.02: A Novel Bidirectional PWM DC-DC Converter [90481] 313
Brian Laan (University of Western Ontario, CA); Pritam Das (University of Western Ontario, CA); Gerry Moschopoulos (University of Western Ontario, CA)

TM02.03: Parasitics and Voltage Collapse of the DC-DC Boost Converter [90123] 273
Hisham Mahmood (Lakehead University, CA); Krishnamoorthy Natarajan (Lakehead University, CA)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Biomedical Engineering	
Session: TM03	Biomedical Signal Processing II	
Tuesday, May 6	Time: 9:45 a.m. - 11:30 a.m.	Room: Auditorium
	Chair: Dr. Raj Rangayyan	Univ. of Calgary
		Proceedings Page No.
TM03.01: A Model for Normal Swallowing Sounds Generation Based on Wavelet Analysis [91143]		827
Azadeh Yadollahi (University of Manitoba, CA); Zahra Moussavi (University of Manitoba, CA)		
TM03.02: Screening of knee-joint vibroarthrographic signals using parameters of activity and radial-basis functions [82399]		57
Rangaraj Rangayyan (University of Calgary, Schulich School of Engineering, CA); Yunfeng Wu (Beijing University of Posts and Telecommunications, CN)		
TM03.03: Multifocal Electroretinography. Glaucoma Diagnosis By Means Of The Wavelet Transform [91187]		867
Juan Miguel (Alcalá, ES); Román Blanco (Universidad de Alcalá, ES); Luciano Boquete (Universidad de Alcalá, ES); José Rodríguez (Universidad de Alcalá, ES); Pedro De La Villa (Universidad de Alcalá, ES)		
TM03.04: An EMG-Based Force Control System for Prosthetic Arms [93863]		1737
Maryam Moradi (Queen's University, CA); Keyvan Hashtrudi-Zaad (Queen's University, CA); Katherine Mountjoy (Queen's University, CA); Evelyn Morin (Queen's University, CA)		
TM03.05: EEG Time Series Analysis with Exponential Autoregressive Modelling [90809]		485
Tugce Balli (University of Essex, UK); Ramaswamy Palaniappan (University of Essex, UK)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Communications and Networking	
Session: TM04	Wireless Optical Communications	
Tuesday, May 6	Time: 9:45 a.m. - 11:30 a.m.	Room: Canadiana
	Chair: Dr. Michael Riediger	University of British Columbia
		Proceedings Page No.
TM04.01: Channel Modeling in Wireless Optical Communications Using Markov Chain [96169]		2051
Zeinab Hajjarian Kashani (Pennsylvania State University, US); Mohsen Kavehrad (The Pennsylvania State University -- Univ. Park, US)		
TM04.02: Programmable Pulse Shaping by Using Liquid Crystal-Spatial Light Modulator (LC-SLM) for Optical Wireless Communications [90397]		309
Shanhong You (Pennsylvania State University, US); Mohsen Kavehrad (The Pennsylvania State University -- Univ. Park, US)		
TM04.03: Diversity Gain Analysis of Free-Space Optical Communication Systems [93157]		1239
Majid Safari (University of Waterloo, CA); Murat Uysal (University of Waterloo, CA)		
TM04.04: Blind Detection of On-Off Keying for Free-Space Optical Communications [93475]		1361
Michael Riediger (University of British Columbia, CA); Robert Schober (University of British Columbia, CA); Lutz Lampe (University of British Columbia, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Communications and Networking

Session: TM05 Wireless Ad Hoc Networks

Tuesday, May 6 Time: 9:45 a.m. - 11:30 a.m.

Room: Ontario

Chair: Mr. Farnaz Shayegh

Concordia University, Canada

Proceedings Page No.

TM05.01: E-Optimal Approximation Scheme for On-demand Multipath in Ad hoc Network [90927] 623

Xin Guo (Beihang University, CN); Jun Zhang (Beijing University of Aeronautics and Astronautics, CN); Tao Zhang (Beijing University of Aeronautics and Astronautics, CN)

TM05.02: On the Achievable Throughput of Ad-hoc Networks with MIMO Rician channels [87091] 115

Zohreh Motamedi (Concordia University, CA); M. Reza Soleymani (Concordia University, CA)

TM05.03: Priority scheduling in mobile ad hoc networks with improved bandwidth utilization [94895] 1955

Gunasekaran Raja (Madras Institute of technology,anna university, IN); Rhymend Uthariaraj (Anna university, IN); Kaarthikeyan S (Madras Institute of technology,anna university, IN); Rajesh Rajan (Madras Institute of technology,anna university, IN); Aravind Sridharan (Madras Institute of technology,anna university, IN)

TM05.04: Detection and Prevention of Selfish and Misbehaving Nodes at MAC Layer in Mobile Ad Hoc Networks [94881] 1945

Gunasekaran Raja (Anna University, IN); Sudharsan Rajagopalan (Madras Institute of Technology , Anna University ., IN); Sujitha Priyadarsini (Anna University, IN); Yamini Umopathy (Anna University, IN); Rhymend Uthaiaraj (Anna University, IN)

TM05.05: Risk Management of Digital Certificates in Ad Hoc and P2P Networks [90537] 325

Tong Zhou (Comcast, US); Lein Harn (University of Missouri-Kansas City, US)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Computer Systems and Applications
Session: TM06 Computer Systems
Tuesday, May 6 Time: 9:45 a.m. - 11:30 a.m. Room: Chippawa
Chair: Dr. Gul Khan Ryerson University, Canada

Proceedings Page No.

- TM06.01: Performance Analysis Of Virtual Machines Through Tracing [89909]** **261**
Parisa Heidari (Ecole Polytechnique de Montreal, CA); Mathieu Desnoyers (Ecole Polytechnique de Montreal, CA); Michel Dagenais (Ecole Polytechnique de Montreal, CA)
- TM06.02: Implementation of V-Cave Display System Using the Object-Oriented Graphics Rendering Engine [93407]** **1309**
Patrick Gavigan (Carleton University, CA); Trevor Pearce (Carleton University, CA)
- TM06.03: Research on Intelligent Decision-making Operation Modes in Modern Commerce Service Value Chain Model [91029]** **709**
Li Wang (Beijing University of Posts and Telecommunications, CN)
- TM06.04: An Architecture for Multi-Lingual Hands-Free Desktop Control System for PC Windows [93871]** **1747**
Mohammad Abdeen (Ain Sham University, EG); Heba Mohammad (Ain Shams university, EG); Mustapha Yagoub (University of Ottawa, CA)
- TM06.05: Towards Defining Software Development Processes In DO-178B With OpenUP [91169]** **851**
Christophe Bertrand (École de Technologie Supérieure, CA); Christopher Fuhrman (École de Technologie Supérieure, CA)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Computer Systems and Applications

Session: TM07 Computer Applications

Tuesday, May 6 Time: 9:45 a.m. - 11:30 a.m.

Room: Huron

Chair: Dr. Alex Ferworn

Ryerson University

Proceedings Page No.

TM07.01: A Novel RFID-based Shipping Containers Location and Identification Solution in Multimodal Transport [90075] 267

Y. Zhengwu (Sino-Korea Chongqing GIS Research Center, College of Computer Science, Chongqing University of Post, CN); Dongli Huang (Chongqing University of Posts and Telecommunications, CN)

TM07.02: A GSM Mobile System to Monitor Brain Function Using a Near-Infrared Light Sensor [90951] 665

Salah Shari'eh (Ryerson University, CA); Alexander Ferworn (Ryerson University, CA); Vladislav Toronov (Ryerson University, CA)

TM07.03: Searching for short-span convolutional doubly self-orthogonal codes: a parallel implicitly-exhaustive -search algorithm [93801] 1659

Gilbert Kowarzyk (École Polytechnique de Montréal, CA); Yvon Savaria (École Polytechnique de Montréal, CA); David Haccoun (Ecole Polytechnique de Montréal, CA)

TM07.04: Adaptive management of speaker verification thresholds [93887] 1763

Eduardo Castillo-Guerra (UNB, CA); Roberto Diaz Amador (Central University of Las Villas, CU); Julian Cardenas-Barrera (Central University of Las Villas, CU)

TM07.05: Fast Multipole Integral Equation Method for VLSI Interconnect Inductance Calculation [94585] 1883

Xiaoli Wang (Xi'an Jiaotong University, China, US); Xianjue Luo (Xi'an Jiaotong University, CN)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Signal and Multimedia Processing
Session: TM08 Image Processing II
Tuesday, May 6 Time: 9:45 a.m. - 11:30 a.m. Room: Hennepin South
Chair: Dr. Robert Dony University of Guelph, Canada

Proceedings Page No.

- TM08.01: The nonredundant contourlet transform (NRCT): A multiresolution and multidirection image representation [93431]** **1323**
Shenqiu Zhang (Memorial University of Newfoundland, US); Cecilia Moloney (Memorial University of Newfoundland, CA)
- TM08.02: A Neural Network Approach to a Classic Image Recognition Problem [93659]** **1503**
Wilson Harron (University of Guelph, CA); Calvin Pettinger (University of Guelph, CA); Robert Dony (University of Guelph, CA)
- TM08.03: Color Face Recognition Under Various Learning Scenarios [93713]** **1549**
Tejaswini Ganapathi (University of Toronto, CA); Konstantinos Plataniotis (University of Toronto, CA)
- TM08.04: Logo Classification Using Haar Wavelet Co-occurrence Histograms [91263]** **927**
Ali Hesson (Ryerson University, CA); Dimitri Androustos (Ryerson University, CA)
- TM08.05: Improved Fingerprint Image Segmentation using New Modified Gradient based Technique [94928]** **1967**
Muhammad Usman Akram (EME college,NUST,Rawalpindi, PK); Irfan Zafar (EME College, NUST, PK)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Signal and Multimedia Processing
Session: TM09 Speech & Audio Processing III
Tuesday, May 6 Time: 9:45 a.m. - 11:30 a.m. Room: Hennepin North
Chair: Dr. Vijay Parsa University of Western Ontario, Canada

Proceedings Page No.

TM09.01: Improving Dysarthric Speech Intelligibility through Re-synthesized and Grafted Units [93689] 1523

Mohammed Sidi Yakoub (INRS-EMT, CA); Sid-Ahmed Selouani (Université de Moncton, campus of Shippagan, CA); Douglas O'Shaughnessy (INRS-Énergie-Matériaux-Télécommunications, CA)

TM09.02: Prediction of the quality ratings of tracheoesophageal speech using adaptive time-frequency representations [93839] 1715

Rob McDonald (University of Western Ontario, CA); Vijay Parsa (University of Western Ontario, CA); Phil Doyle (University of Western Ontario, CA)

TM09.03: A New Hybrid Approach for Automatic Speech Signal Segmentation Using Silence Signal Detection, Energy Convex Hull, and Spectral Variation [87841] 145

Xufang Zhao (University of Quebec, CA); Douglas O'Shaughnessy (INRS-Énergie-Matériaux-Télécommunications, CA)

TM09.04: Beamformer Performance Limits in Monaural and Binaural Hearing Aid Applications [90700] 381

James Gordy (University of Ottawa, CA); Martin Bouchard (University of Ottawa, CA); Tyseer Aboulnasr (University of Ottawa, CA)

TM09.05: A Preliminary Study of Factors Affecting the Performance of a Playback Attack Detector [90793] 459

Wei Shang (University of New Brunswick, CA); Maryhelen Stevenson (University of New Brunswick, CA)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Controls and Robotics	
Session: TM10	Control Systems II	
Tuesday, May 6	Time: 9:45 a.m. - 11:30 a.m.	Room: Oaks South
	Chair: Dr. Ma'moun Abu-Ayyad	University of New Brunswick, Canada
		Proceedings Page No.
TM10.01: Advanced Control Schemes Using Multi-Model Approach For Nonlinear Processes [88117]		159
Ma'moun Abu-Ayyad (University of New Brunswick, CA)		
TM10.02: Fuzzy Logic Surge Control in Constant Speed Centrifugal Compressors [90941]		653
Raef Shehata (University of Guelph, CA); Hussein Abdullah (University of Guelph, CA); Fayez Areed (Mansoura University, EG)		
TM10.03: Development of a Fuzzy Neural System for Load Forecasting [91259]		923
Liam Paull (University of New Brunswick, CA); Howard Li (University of New Brunswick, CA); Liuchen Chang (University of New Brunswick, CA)		
TM10.04: Tokamak State-Space Control Modeling [93587]		1437
Izaskun Garrido (University of the Basque Country, ES); Aitor Garrido (University of the Basque Country, ES); Oscar Barambones (University of the Basque Country, ES); Patxi Alkorta (University of the Basque Country, ES); Francisco Maseda (University of the Basque Country, ES)		
TM10.05: Model Predictive Control Via System Identification for a Hot Blast Stove [91131]		809
Yongheng Zhang (Purdue University Calumet, US); Xia Huang (Purdue University Calumet, US); Nasser Houshanghi (Purdue University Calumet, US)		

IEEE

McNaughton Lecture

Tuesday, May 6, 2008 at 12:30pm in Oakes North Ballroom

The Alouette Satellite Programme:

An international milestone in Canadian science and engineering

Dr. Colin Franklin

2008 A.G.L. McNaughton Gold Medal Winner

Details Page 021

Notes

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Controls and Robotics	
Session: TA01	Machine Vision and Localization	
Tuesday, May 6	Time: 1:30 p.m. - 3:15 p.m.	Room: Cree
	Chair: Dr. Andrew Vardy	Memorial University of Newfoundland, Canada
		Proceedings Page No.
TA01.01: Comparing global measures of image similarity for use in topological localization of mobile robots [91233]		913
Syeda Ferdaus (Memorial University of Newfoundland, CA); Andrew Vardy (Memorial University of Newfoundland, CA); George Mann (Memorial University of Newfoundland, CA); Ray Gosine (Memorial University of Newfoundland, CA)		
TA01.02: Markerless Human Tracking for Industrial Environments [92871]		1139
Gary Bone (McMaster University, CA)		
TA01.03: Discrete YUV Look-Up Tables For Fast Colour Segmentation For Robotic Applications [91287]		963
Gourab Sen Gupta (Massey University, NZ)		
TA01.04: Reconstruction of Handwritten Digit Images Using Autoencoder Neural Networks [90797]		465
Chun Chet Tan (Multimedia University, MY); Eswaran Eswaran (Multimedia University, MY)		
TA01.05: La reconnaissance des silhouettes d'objets en utilisant une description textuelle. [88037]		155
Saliha AOUAT (USTHB university, DZ); Slimane Larabi (USTHB University, DZ)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Power Electronics and Systems	
Session: TA02	Power Converters and Drives III	
Tuesday, May 6	Time: 1:30 p.m. - 3:15 p.m.	Room: Tuscarora
	Chair: Dr. Bachir Kedjar	cole de technologie suprieure, Canada
		Proceedings Page No.
TA02.01: A Novel DC Voltage Protection Method For Three-Phase Boost Converter [91111]		787
Wang Zitao (Univerisity of New Brunswick, CA); Liuchen Chang (University of New Brunswick, CA)		
TA02.02: Steady-state model including conduction and switching losses of isolated full-bridge center-tapped current-fed buck converter [90725]		399
Aleksandar Radic (University of British Columbia, CA); Zoran Miletic (NSERC IPS Company Co-Supervisor, CA); Djordje Garabandic (Xantrex Technology Inc., CA)		
TA02.03: A design tool to protect industrial long cable PWM ASD systems against over-voltage problems [93833]		1699
Saïd Amarir (Ecole de technologie superieure, CA); Kamal Al-Haddad (Ecole de Technologie Supérieure, CA)		
TA02.04: Performance of Grid Connected Inverter with Maximum Power Point Tracker and Power Factor Control [92813]		1129
Saad Mekhilef (University of Malaya, MY)		
TA02.05: LQ Control of a Three-Phase Four-Wire Shunt Active Power Filter Based on Three-Level NPC Inverter [93397]		1297
Bachir Kedjar (Ecole de technologie suprieure, CA); Kamal Al-Haddad (Ecole de Technologie Supérieure, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Biomedical Engineering	
Session: TA03	Biomedical Signal Processing III	
Tuesday, May 6	Time: 1:30 p.m. - 3:15 p.m.	Room: Auditorium
	Chair: Dr. Zahra Moussavi	Univ. of Manitoba
		Proceedings Page No.
TA03.01: Quantification and Localization of Features in Time-frequency Plane [93055]		1207
Behnaz Ghoraani (Ryerson University, CA); Sri Krishnan (Ryerson University, CA)		
TA03.02: Diffuse Electrical Injury: Questioning the Scientific Basis [94947]		1977
Joseph McGowan (Exponent, Inc and Drexel University, US); Yakov Shkolnikov (Exponent, Inc and Drexel University, US); Joseph Sala (Exponent, US); Rose Ray (Exponent, Inc, US)		
TA03.03: Improved Method for Amplitude Estimation of Time Domain Optical Coherence Tomography System [94971]		1995
Reza Jafari (Khajeh Nasir University of Technology, IR); Masoud Karimi Ghartemani (Sharif University of Technology, IR); I. Alex Vitkin (University of Toronto, CA)		
TA03.04: Automated Quantification and Comparison of Spatio-temporal Gait Parameters During Treadmill and Overground Walking [88141]		165
Aimee Betker (University of Manitoba, CA); Pramila Maharjan (University of Manitoba, CA); Chandrashekar Yaduvanshi (University of Manitoba, CA); Tony Szturm (University of Manitoba, CA); Zahra Moussavi (University of Manitoba, CA)		
TA03.05: Health Risk Assessment and Prognosis of Gas Turbine Blades by Simulation and Statistical Methods [92673]		1087
Nita Goel (Tecsis Corporation, CA); Amar Kumar (University of Ottawa, CA); Venkataraman Narasimhan (University of Ottawa, CA); Amiya Nayak (SITE, University of Ottawa, CA); Alka Srivastava (Tecsis Corporation, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Communications and Networking	
Session: TA04	Channel/Source Coding and Modulation	
Tuesday, May 6	Time: 1:30 p.m. - 3:15 p.m.	Room: Canadiana
	Chair: Dr. Lian Zhao	Ryerson University, Canada
		Proceedings Page No.
TA04.01: Parallel-Serial Concatenated Coding: Design and Bit Error Probability Performance [90812]		489
Vahid Asghari (PhD Student at University of Quebec, INRS-EMT, CA); Sonia Aissa (University of Quebec, INRS-EMT, CA)		
TA04.02: A New Criterion To Compare Different LDPC Codes For Hardware Implementation [91125]		805
Amir Hosein Harati Nejad Torbati (K.N.Toosi university of technology, IR); Mahmoud Ahmadian (K.N. Toosi University of Technology, IR); Amir Moosavinia (K.N.Toosi University of Technology, IR)		
TA04.03: Optimized dc-free turbo coding scheme under the map decoding algorithm [93947]		1831
Ahmed Hussein (Laval University, CA); Paul Fortier (Universite Laval, CA)		
TA04.04: A Linearizing Approach to Code Design for Generalized MSK with Four Symbol Pulse Duration [91113]		793
Walid AbedIseid (University of Waterloo, CA); Peter Galko (University of Ottawa, CA)		
TA04.05: An Efficient Algorithm For Bandwidth-Delay Constrained Least Cost Multicast Routing [93785]		1641
Rana Forsati (Karaj Azad University, IR); Mehrdad Mahdavi (Sharif University of Technology, IR); Abolfazl T. Haghghat (Azad university, IR); Azadeh Ghariniyat (Tehran Azad University, IR)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Communications and Networking	
Session: TA05	WiFi and Wireless Mesh Networks	
Tuesday, May 6	Time: 1:30 p.m. - 3:15 p.m.	Room: Ontario
	Chair: Dr. R. P. Fabris Hoefel	Federal University of Rio Grande do Sul, Brazil
		Proceedings Page No.
TA05.01: IEEE WLANS: 802.11, 802.11e MAC and 802.11a, 802.11b, 802.11g PHY Cross Layer Link Budget Model for Cell Coverage Estimation [94522]		1877
Roger Hoefel (Federal University of Rio Grande do Sul - UFRGS, BR)		
TA05.02: Wireless Mesh Networking Technology for Commercial and Industrial Customers [82009]		47
Abdulrahman Yarali (Murray State University, US)		
TA05.03: Fault-Tolerant Access Points in a Mobile IPv6 WiFi Light Urban Traffic Communication Model [90781]		449
Ramez Daoud (Universite de Valenciennes, FR); Hassanein Amer (American University in Cairo (AUC), EG)		
TA05.04: Multiple Metrics Aware Ant Routing over Hap Mesh Networks [93815]		1675
Mauro Tropea (University of Calabria, IT); Floriano De Rango (University of Calabria, IT)		
TA05.05: An AODV-Improved Routing Based on Power Control in WiFi Mesh Networks [93469]		1349
Yifei Wei (Beijing University of Posts and Telecommunications, CN); Mei Song (Professor, CN); Junde Song (Beijing University of Posts and Telecommunications, TW)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Computer Systems and Applications	
Session: TA06	NoC/SoC and Embedded Systems	
Tuesday, May 6	Time: 1:30 p.m. - 3:15 p.m.	Room: Huron
	Chair: Dr. Shawki Areibi	University of Guelph, Canada
		Proceedings Page No.
TA06.01: An Architecture Exploration Framework for DSP Applications [87981]		149
Ahmed Elhossini (University of Guelph, CA); Shawki Areibi (University of Guelph, CA); Robert Dony (University of Guelph, CA)		
TA06.02: Early Performance Estimation in Wormhole-Switched Networks-on-Chip [89745]		227
Victor Dumitriu (Ryerson University, CA); Gul Khan (Ryerson University, CA)		
TA06.03: High-level Specification and Logic Implementation of Single-chip Multiprocessor Systems based on a Configurable Router [92415]		1039
Ronny Pau (Queen's University, CA); Naraig Manjikian (Queen's University, CA)		
TA06.04: Software Efficient Implementation of GMSK modem for an Automatic Identification System Transceiver [90915]		601
Mohamed Souissi (Ecole Supérieure des Communications de Tunis Supcom, TN); Khaled Grati (Ecole Supérieur de Comm. Sup/Com Tunis, TN); Adel Ghazel (SUPCOM, TN); Ammar Kouki (École de technologie supérieure, CA)		
TA06.05: Modeling and Simulation of Multicore Multithreaded Processor Architectures in SystemC [92885]		1155
Nicholas Ma (Queen's University, CA); Naraig Manjikian (Queen's University, CA); Subramania Sudharsanan (Queens University, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Computer Systems and Applications

Session: TA07 Databases

Tuesday, May 6 Time: 1:30 p.m. - 3:15 p.m.

Room: Chippawa

Chair: Dr. Alex Bot

GS Research and Consulting, Canada

Proceedings Page No.

TA07.01: Automatic Database Normalization and Primary key Generation [66130] 11

Amir Hassan Bahmani (Islamic Azad University of mashhad, IR); Mahmoud Naghibzadeh (Ferdowsi University of Mashhad, IR); Behnam Bahmani (University of Firozkoh, IR)

TA07.02: Improving Join Performance for Skewed Databases [90709] 387

Bryce Cutt (University of British Columbia Okanagan, CA); Ramon Lawrence (University of British Columbia Okanagan, CA)

TA07.03: IR Database Compression Algorithm using Optimized Key Masking [92703] 1097

Sandeep Kalra (Zilog India, IN); Gurpal Singh (Baba Banda Singh Bahadur Engineering College, IN); Balwinder Sohi (UIET Panjab University CHD, IN)

TA07.04: Data Loading and Mapping using Staging DBMS in the Grid [94623] 1887

Ejaz Ahmed (KFUPM, SA)

TA07.05: Using Financial Modelling For Integrated Healthcare Databases [94939] 1937

Alexei Botchkarev (GS Research & Consulting, CA); Peter Andru (Ministry of Health and Long-Term Care, CA)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Signal and Multimedia Processing	
Session: TA08	Image & Video Processing II	
Tuesday, May 6	Time: 1:30 p.m. - 3:15 p.m.	Room: Hennepin South
	Chair: Dr. David Capson	McMaster University, Canada
		Proceedings Page No.
TA08.01: Scale-Space Ridge Detection with GPU Acceleration [93695]		1527
Michael Kinsner (McMaster University, CA); David Capson (McMaster University, CA); Allan Spence (McMaster University, CA)		
TA08.02: Parallel Architecture for PCA Image Feature Detection Using FPGA [93457]		1341
Fang Zhong (McMaster University, CA); David Capson (McMaster University, CA); Derek Schuurman (Redeemer University College, CA)		
TA08.03: Decompressing Perceptually Adaptive Normal Map Compression (PANMC) Images in Hardware [90943]		659
Martin Hansen (University of Waterloo, CA); Adam Bellemare (University of Waterloo, CA); Alexander Wong (University of Waterloo, CA); William Bishop (University of Waterloo, CA)		
TA08.04: A Scalable Architecture for Variable Block Size Motion Estimation on Field-Programmable Gate Arrays [93405]		1303
Theepan Moorthy (Ryerson University, CA); Andy Ye (Ryerson University, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Signal and Multimedia Processing	
Session: TA09	Signal Processing Algorithms & Architectures I	
Tuesday, May 6	Time: 1:30 p.m. - 3:15 p.m.	Room: Hennepin North
	Chair: Dr. Ka Lok Man	University College Cork, Ireland
		Proceedings Page No.
TA09.01: WIMAX Baseband Processor Implementation and Validation on a FPGA/DSP Platform [93605]		1449
Henry Lai (University of Calgary, CA); Slim Boumaiza (University of Waterloo, CA)		
TA09.02: Specification and Analysis of Hardware Designs using mCRL2 [89437]		211
Ka Lok Man (CEOL, University College Cork, Ireland, IE); Jeroen van der Wulp (TU/e, NL)		
TA09.03: Real Time Implmentation and Optmization of MP3 Decoder on DSP [91023]		699
Benix Samuel (IIT Madras, IN); Ashok Jhunjunwala (Professor, Indian Institute of Technology Madras, IN)		
TA09.04: An Efficient First Order Sigma Delta Modulator Design [79953]		29
Nowshad Amin (National University of Malaysia, MY)		
TA09.05: A New Software Approach for Real Time OFDM [94817]		1925
Khawaja M. Yahya (NWFP University of Engineering and Technology Peshawar, PK); Muhammad Khan (NWFP University of Engineering and Technology, PK); Abdul Bais (NWFP University of Engineering and Technology, PK); Rizwana Arshad (NWFP University of Engineering and Technology, PK); Muhammad Suleman (NWFP University of Engineering and Technology, PK); Ihsan Ul Haq (NWFP University of Engineering and Technology Peshawar, Pakistan, PK)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Controls and Robotics	
Session: TA10	Actuation and Sensing	
Tuesday, May 6	Time: 1:30 p.m. - 3:15 p.m.	Room: Oaks South
	Chair: Dr. Keyvan Hashtrudi-Zaad	Queen's University, Canada
		Proceedings Page No.
TA10.01: Design and Prototyping of a Fiber Optic Tactile Array [90671]		373
Pencilla Lang (University of Western Ontario, CA)		
TA10.02: Measuring the Angle of a Rotating Link Through Compliant Driving Tendons [93459]		1345
Mark Guckert (University of Western Ontario, CA); Michael Naish (University of Western Ontario, CA)		
TA10.03: A Novel Method to Measure and Correct the Odometry Errors in Mobile Robots [91219]		897
Ali Bostani (INRS, CA); Ahmad Vakili (Amirkabir, IR); Tayeb A. Denidni (INRS-EMT, CA)		
TA10.04: A Nonlinear Observer Design via Differential Neural Networks for Coupled Tanks [93629]		1457
Farid Sharifi (Amirkabir University of Technology, IR)		
TA10.05: Tactile based aiding device for unsighted persons USING SHAPE MEMORY ALLOYS [94966]		1991
Amin Mahdizadeh (University of Tabriz, IR); Iraj Hassanzadeh (University of Tabriz, IR)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Power Electronics and Systems
Session: TE01 Renewable Energy III
Tuesday, May 6 Time: 3:30 p.m. - 5:15 p.m. Room: Cree
Chair: Dr. Howard Li University of New Brunswick, Canada

Proceedings Page No.

TE01.01: Implementation of the RBF Neural Network on A SOPC for Maximum Power Point Tracking [91367] 981

Howard Li (University of New Brunswick, CA); Liuchen Chang (University of New Brunswick, CA); Bo Cao (University of New Brunswick, CA)

TE01.02: A New Maximum Power Point Tracking Method for Photovoltaic Arrays Using Golden Section Search Algorithm [90925] 619

Riming Shao (University of New Brunswick, CA); Liuchen Chang (University of New Brunswick, CA)

TE01.03: Research On the performance of Induction- Motor- Based Residential Photovoltaic Water Pump System [94293] 1867

Meiqin Mao (Hefei University of Technology, CN); JianHui Su (Hefei University of Technology, CN); Liuchen Chang (University of New Brunswick, CA)

TE01.04: Testbed for Microgrid with Multi-Energy Generators [90933] 637

Meiqin Mao (Hefei University of Technology, CN); Ming Ding (Hefei University of Technology, CN); Liuchen Chang (University of New Brunswick, CA)

TE01.05: The Effects of Environmental Parameters on Wind Turbine Power PDF Curve [92971] 1193

Mohammad Jafarian (Sharif University of Technology, IR)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Power Electronics and Systems
Session: TE02 Power Converters and Drives IV
Tuesday, May 6 Time: 3:30 p.m. - 5:15 p.m. Room: Tuscarora
Chair: Dr. Uddin Mohammad Lakehead University, Canada

Proceedings Page No.

- TE02.01: Real-Time Performance of a Nonlinear Controller based IM Drive [87731]** **141**
Mohammad Uddin (Lakehead University, CA); Sang Nam (Rockwell Automation, CA)
- TE02.02: Physical Variable Modeling of Multiphase Induction Machines [91505]** **999**
Liwei Wang (University of British Columbia, CA); Sina Chini Foroosh (University of British Columbia, CA); Juri Jatskevich (University of British Columbia, CA); Ali Davoudi (University of Illinois at Urbana-Champaign, US)
- TE02.03: Simplified Evaluation of Equivalent Circuit Parameters of a Squirrel Cage Induction Motor by Finite Element Calculations and Measurements [90197]** **295**
Christian Grabner (Siemens AG, DE)
- TE02.04: Report about Acoustic Effects of a Converter Fed Induction Motor with a Novel Stator Design [90177]** **283**
Christian Grabner (Siemens AG, DE)
- TE02.05: A Study on the Aging Characteristics of RTV Insulator Coatings [80821]** **43**
Ali Abdollahian (Islamic Azad University, IR); Ayman El-Hag (American University of Sharjah, AE); Ali Naderian Jahromi (University of Waterloo, CA); Mahdiah Farahani (University of Science and Culture, IR); Gholam Abbas Ranjbar (Mr., IR)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Biomedical Engineering	
Session: TE03	Biomedical Image Processing I	
Tuesday, May 6	Time: 3:30 p.m. - 5:15 p.m.	Room: Auditorium
	Chair: Dr. Raj Rangayyan	Univ. of Calgary
		Proceedings Page No.
TE03.01: Medical Image Texture Analysis: A Case Study with Small Bowel, Retinal and Mammogram Images [94883]		1949
April Khademi (University of Toronto, CA); Sri Krishnan (Ryerson University, CA)		
TE03.02: Low-Area and Low-Power Video Compressor for Endoscopic Capsules [90843]		507
Khan Wahid (University of Saskatchewan, CA); Seok-Bum Ko (University of Saskatchewan, CA); Daniel Teng (University of Saskatchewan, CA); Vassil Dimitrov (University of Calgary, CA)		
TE03.03: Delineation of the Pelvic Girdle in Computed Tomographic Images [88609]		179
Shantanu Banik (University of Calgary, Schulich School of Engineering, CA); Rangaraj Rangayyan (University of Calgary, Schulich School of Engineering, CA); Graham Boag (Alberta Children's Hospital, CA)		
TE03.04: Increasing Segmentation Accuracy In Ultrasound Imaging Using Filtering and Snakes [93451]		1333
Kaveh Houshmand (University of Waterloo, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Communications and Networking	
Session: TE04	Performance Analysis of Communications Systems and Networks	
Tuesday, May 6	Time: 3:30 p.m. - 5:15 p.m.	Room: Canadiana
	Chair: Dr. Lian Zhao	Ryerson University, Canada
		Proceedings Page No.
TE04.01: Random pulse train spectrum calculation unleashed [90861]		523
Sandy Stepanov (Ryerson University, CA); Anastasios Venetsanopoulos (University of Toronto, CA)		
TE04.02: Analyzing The Accuracy Of Choke Hits, Choke Misses And Choke-Red Drops [85047]		89
Visvasuresh Victor Govindaswamy (Texas A&M University-Texarkana, US); Gergely Zaruba (University of Texas at Arlington, US); Balasekaran G (Nanyang Technology University, SG)		
TE04.03: Study Of Number Of Packets In Transit In A Data Network Model Near Onset Of Congestion Using Functional Fixed Effect Models [93899]		1779
Anna Lawniczak (University of Guelph, CA); Shengkun Xie (University of Guelph, CA)		
TE04.04: Parametric & Non-Parametric Analysis Of Mean Treatment Effects Of Number Of Packets In Transit In Data Network Model [95015]		2021
Shengkun Xie (University of Guelph, CA); Anna Lawniczak (University of Guelph, CA); Pietro Lio` (University of Cambridge, UK)		
TE04.05: Multiple Description Coding by Successive Quantization [92431]		1045
Saeed Moradi (Queen's University, CA); Tamas Linder (Queen's University, CA); Saeed Gazor (Queen's University, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Communications and Networking	
Session: TE05	Wireless Sensor Networks	
Tuesday, May 6	Time: 3:30 p.m. - 5:15 p.m.	Room: Ontario
	Chair: Dr. Sergiy Vorobyov	University of Alberta, Canada
		Proceedings Page No.
TE05.01: Beampattern random behavior in wireless sensor networks with Gaussian distributed sensor nodes [89889]		257
Mohammed Ahmed (University of Alberta, CA); Sergiy Vorobyov (University of Alberta, CA)		
TE05.02: Maximizing Capacity in Wireless Sensor Networks by Optimal Placement of Clusterheads [93173]		1245
Ali Fakoorian (University of Polytechnic, IR); Hassan Taheri (Amir Kabir University, IR)		
TE05.03: Estimation of Signal to Noise Ratio Value Based on Autoregressive Integrated Moving Average Model in Intelligent Satellite System [91267]		937
Wahab Almuhtadi (Algonquin College, CA)		
TE05.04: Localization Using Multicarrier Communication Systems for Wireless Sensor Networks [82035]		53
Mohamed Youssef (University of Calgary, CA); Naser El-Sheimy (University of Calgary, CA)		
TE05.05: Performance of TDMA Scheduling Algorithms in the Presence of Data Correlation in Sensor Networks [90979]		675
Abdulaziz Barnawi (Carleton University, CA); Roshdy Hafez (Carleton University, CA)		
TE05.06: Wireless Sensor Nodes Processor Architecture and Design [92241]		1031
Ali El Kateeb (Michigan University, US)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Computer Systems and Applications	
Session: TE06	Parallel architecture	
Tuesday, May 6	Time: 3:30 p.m. - 5:15 p.m.	Room: Hennepin North
	Chair: Dr. Naraig Manjikian	Queens University, Canada
		Proceedings Page No.
TE06.01: Power Aware Design of Superscalar Architecture for High Performance DSP Operations [90753]		433
Rehan Ahmed (Lahore University of Management Sciences, PK); Faheem Sheikh (Lahore University of Management Sciences, PK); Shahid Masud (Lahore University of Management Sciences, PK)		
TE06.02: Mapping Multiple Algorithms into a Reconfigurable Systolic Array [92939]		1187
Wei Jin (University of Regina, CA); Chang-Nian Zhang (University of Regina, CA); Hua Li (University of Lethbridge, CA)		
TE06.03: A Simulation Study of Region-level Coherence Tracking in Ring-based Multiprocessors [93117]		1227
Naraig Manjikian (Queen's University, CA)		
TE06.04: Compiling Parallel Applications to Coarse-Grained Reconfigurable Architectures [93853]		1723
Mohammed Tuhin (University of Calgary, CA); Theodore Norvell (Memorial University of Newfoundland, CA)		
TE06.05: System Size Independent Architecture for Jacobi Processor [95019]		2033
Peyman Pourhaj (University of Saskatchewan, CA); Daniel Teng (University of Saskatchewan, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Computer Systems and Applications	
Session: TE07	Web and Networks	
Tuesday, May 6	Time: 3:30 p.m. - 5:15 p.m.	Room: Chippawa
	Chair: Dr. Vahid Garousi	University of Calgary, Canada
		Proceedings Page No.
TE07.01: Évaluation du délai dans un réseau mobile ad hoc multi-services [89879]		251
Ronald Beaubrun (Université Laval, CA); Badji Molo (Université Laval, CA)		
TE07.02: Modeling Of Multimedia Files On The Web 2.0 [93507]		1387
Mojgan Soraya (Ryerson University, CA); Masood Zamani (Ryerson University, CA); Abdolreza Abhari (Assistant Prof., CA)		
TE07.03: HTTP Modification to Reduce Client Latency [93649]		1491
Abdolreza Abhari (Assistant Prof., CA); Adam Serbinski (Ryerson University, CA)		
TE07.04: Implémentation et performances du protocole de routage DSR [93901]		1785
Ronald Beaubrun (Université Laval, CA); Badji Molo (Université Laval, CA)		
TE07.05: A Formalism for Arrival Time Analysis of Real-Time Tasks based on UML Models [93727]		1575
Vahid Garousi (University of Calgary, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Signal and Multimedia Processing
Session: TE08 Signal Processing II
Tuesday, May 6 Time: 3:30 p.m. - 5:15 p.m. Room: Hennepin South
Chair: Dr. Yonghong Zhang University of Alberta, Canada

Proceedings Page No.

TE08.01: Ultrasonic Time-of-Flight Diffraction Crack Size Identification Based on Cross-Correlation [93907] **1797**
Yonghong Zhang (University of Alberta, CA); Yu Wang (University of Alberta, CA); Ming Zuo (University of Alberta, CA); Xiaodong Wang (University of Alberta, CA)

TE08.02: Enhancement of CN Tower Lightning Current Derivative Signals Using a Modified Power Spectral Subtraction Method [94773] **1909**
Huma Mehmud (Ryerson University, CA); Ali Hussein (Ryerson, CA)

TE08.03: Wavelets application on acoustic emission signal detection in pipeline [93063] **1211**
Ran Wu (Ryerson University, CA); Zaiyi Liao (Ryerson University, CA); Lian Zhao (Ryerson University, CA)

TE08.04: Estimating Crack Size and Location in a Steel Plate using Ultrasonic Signals and CFBP Neural Networks [93875] **1751**
Ajit Sahoo (University of Alberta, CA); Ming Zuo (University of Alberta, CA)

TE08.05: A Divide-and-Conquer Approach for Denoising and Modeling The CN Tower Lightning Current Derivative Signal [93493] **1373**
Ouarda Nedjah (Ryerson university, CA); Ali Hussein (Ryerson, CA); Sri Krishnan (Ryerson University, CA); Kaamran Raahemifar (Ryerson University, CA)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Circuits, Devices and Systems
Session: TE09 Integrated Circuits for Communications
Tuesday, May 6 Time: 3:30 p.m. - 5:15 p.m. Room: Huron
Chair: Dr. Renato Negra University of Calgary, Canada

Proceedings Page No.

- TE09.01: A Low Power and High Speed PPM Design for Ultra-WideBand Communications [92477]** **1055**
Abdel Fattah Yousif (University of Calgary, CA); Mostafa Rashdan (University of Calgary, CA); James Haslett (University of Calgary, CA); Brent Maundy (University of Calgary, CA)
- TE09.02: Efficiency vs. Linearity Trade-offs in Outphasing power Amplifiers [92891]** **1165**
Mohamad El-Asmar (Ecole de Technologie Superieure, CA)
- TE09.03: A Novel Low Phase Noise Quadrature VCO for Medical Implantable Transceivers [93645]** **1487**
Nima Haghighi (Ryerson University, CA); Kaamran Raahemifar (Ryerson University, CA)
- TE09.04: a pseudo-noise code synchronizer circuit design for ds-dqpsk spread spectrum receiver with 0.6 μm cmos [91085]** **767**
Abbas Ali Lotfi Neyestanak (Iranian Research Insitute for Electrical Eng., IR)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Controls and Robotics	
Session: TE10	Robot control and Robotics in Education	
Tuesday, May 6	Time: 3:30 p.m. - 5:15 p.m.	Room: Oaks South
	Chair: Dr. Ursula Vollmer	University of Stuttgart, Germany
		Proceedings Page No.
TE10.01: Control of an Ellipsoidal Underwater Vehicle with Single Actuator [93581]		1433
Mehmet Arslan (Tokyo Institute of Technology, JP)		
TE10.02: Robust Control of Autonomous Underwater Vehicles (AUVs) [89417]		207
Mehdi Narimani (Isfahan University of Technology, IR); Mehdi Loueipour (Isfahan University of Technology, IR)		
TE10.03: Model following adaptive control for a robot with flexible joints [93637]		1467
Iraj Hassanzadeh (University of Tabriz, IR); Hamed Kharrati (University of Tabriz, IR); Jafar Rasti Bonab (University of Tabriz, IR)		
TE10.04: What's it like to be an engineer? Robotics in academic engineering education [91269]		941
Sabina Jeschke (University of Stuttgart, DE); Lars Knipping (Berlin University of Technology, DE); Marcus Liebhardt (University of Stuttgart, DE); Fabian Müller (University of Stuttgart, DE); Ursula Vollmer (University of Stuttgart, DE); Marc Wilke (University of Stuttgart, DE); Xin Yan (University of Stuttgart, DE); Olivier Pfeiffer (Berlin University of Technology, DE)		
TE10.05: Application of a Low Cost Vision System to a Mobile Robot Based Mechatronics Course [93481]		1369
Brian Surgenor (Queen's University, CA); Brandon Miles (Queen's University, CA)		

IEEE

Plenary Session 3

Wednesday, May 7, 2008 at 8:15am in Oakes Ballroom

Resource Tsunami: A Power Industry's Perspective

Mr. Tom Goldie

Senior Vice-President – Corporate Services Hydro One

Details Page 015

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Power Electronics and Systems	
Session: WM01	Power Systems II	
Wednesday, May 7	Time: 9:45 a.m. - 11:30 a.m.	Room: Micmac
	Chair: Dr. Chunling Yang	Alberta Electric System Operator, Canada
		Proceedings Page No.
WM01.01: Network-Enabled Strategy and Platform for Corrective Actions Against Power System Instability [93837]		1709
Helen Cheung (Ryerson University, CA); Lin Wang (Ryerson University, CA); Cungang Yang (Ryerson University, CA)		
WM01.02: Visualization and Support Tool of Power System Restoration Using Hierarchical Color Petri Net [90759]		439
Chunling Yang (Alberta Electric System Operator, CA); Jing Li (Huayang Electric Ltd., CA)		
WM01.03: Transmission Line Protection Using Spectral Energy Differential Scheme [93385]		1289
Ahmed Osman (The University of Calgary, CA); Naima Mansour (Lecturer, EG); Abdel-Maksoud Taalab (Professor, EG)		
WM01.04: Establishment of Regulation Service Market in Iran Restructured Power System [91039]		713
Mohammad Hossein Asgari (University of Tehran, IR); Mohammad Tabatabaei (University of Tehran, IR); Reza Riahi (IGMC, IR); Ali Mazhabjafari (IGMC, IR); Hossein Mirzaee (IGMC, IR); Hamid Reza Bagheri (IGMC, IR)		
WM01.05: Optimal Allocation of Spinning Reserve in a Restructured Power System Using Particle Swarm Optimization [90867]		535
Hamze Hajian-Hoseinabadi (Sharif University of Technology, IR); Mahmud Fotuhi-Firuzabad (Sharif University of Technology, IR); Mahdi Hajian (Sharif University of Technology, IR)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Power Electronics and Systems
Session: WM02 Other Technologies in Power Engineering I
Wednesday, May 7 Time: 9:45 a.m. - 11:30 a.m. Room: Tuscarora
Chair: Dr. Hashimoto Naoki Tokyo Institute of Technology, Japan

Proceedings Page No.

- WE02.05: Inrush Behaviour of a Plunger Core Reactor with Parallel Winding Paths obtained from Field-Circuit Coupled Finite Element Analyses [88247]** 169
Erich Schmidt (Vienna University of Technology, AT)
- WM02.02: Speed tracking performance of fuzzy based vector control of induction motor drives for hybrid electric vehicles [90917]** 607
Mariam Khan (University of Windsor, CA); Narayan Kar (University of Windsor, CA)
- WM02.03: Modélisation des appareillages électriques dans une base de connaissances dynamique [90955]** 669
Ana Popescu (École Polytechnique de Montréal, CA); Raouf Naggar (Institut de recherche d'Hydro-Québec (IREQ), CA); Frederic Sirois (Ecole Polytechnique de Montreal, CA); Mario Germain (Institut de recherche d'Hydro-Québec, CA)
- WM02.04: A Three Phase DSTATCOM Compensating AC and DC Loads with Fast Dynamic Response [93041]** 1199
Mahesh Kumar Mishra (I.I.T. Madras, IN); K. Karthikeyan (Research Scholar, IN)
- WM02.05: A novel constant switching frequency strategy for a three-leg DSTATCOM [90995]** 681
Vincent George (Indian Institute of Technology Madras, India, IN); Mahesh Kumar Mishra (I.I.T. Madras, IN); Srikanthan Sridharan (Indian Institute of Technology Madras, Chennai-36, India, IN)
- WM02.06: The Taguchi-Neural Networks Approach To Forecast Electricity Consumption [94867]** 1941
Dedy Purwanto (Universiti Teknologi Petronas, MY); Herman Agustawan (Universiti Teknologi Petronas, MY); Mohd Fakhizan Romlie (Universiti Teknologi Petronas, MY)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Biomedical Engineering
Session: WM03 Biomedical Image Processing II
Wednesday, May 7 Time: 9:45 a.m. - 11:30 a.m. Room: Auditorium
Chair: Dr. Karthi Umopathy Ryerson/UHN, Canada

Proceedings Page No.

WM03.01: Non-Linear Image Registration For Correction Of Motion Artifacts During Optical Imaging Of Human Hearts [93855] 1729

Paul Westergaard (McMaster University, CA); Karthikeyan Umopathy (University Health Network, CA); Stephane Masse (University Health Network, CA); Elias Sevapsidis (University Health Network, CA); John Asta (Toronto General Hospital, CA); Talha Farid (Toronto General Hospital, CA); Krishnakumar Nair (Toronto General Hospital, CA); Sri Krishnan (Ryerson University, CA); Kumar Nanthakumar (University Health Network, CA)

WM03.02: Simulation of Bone Aging and Virtual Reality Visualization of Cancellous Bone Structure [93423] 1317

Ajay Sonar (Clarkson University, US)

WM03.03: Automatic Segmentation of Brain Structures from MRI Integrating Atlas-Based labeling and Level Set Method [93877] 1755

Matineh Shaker (University of Tehran, IR); Hamid Soltanian-Zadeh (University of Tehran, IR)

WM03.04: Modified Homomorphic Wavelet Based Despeckling of Medical Ultrasound Images [91213] 887

Ravi Mukkavilli (Indian Institute of Technology Guwahati, IN); Jyotindra Sahambi (Indian Institute of Technology Guwahati, IN); Prabin Kumar Bora (IIT Guwahati, India, IN)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Circuits, Devices and Systems

Session: WM04 Nano and Optoelectronic Devices

Wednesday, May 7 Time: 9:45 a.m. - 11:30 a.m.

Room: Hennepin North

Chair: Dr. Chih-Hung Chen

McMaster University, Canada

Proceedings Page No.

WM04.01: Nanotube and Other Interconnects for Nanotechnology Circuits [89097]

189

Ashok Goel (Michigan Tech University, US)

WM04.02: Light Controlled Oscillators; Pixel Architecture for Large Area Digital Imaging Using Amorphous Silicon [93357]

1279

Farhad Taghibakhsh (University of Waterloo, CA); Karim S. Karim (Simon Fraser University, CA)

WM04.03: Towards spectral tuning of long-period fiber gratings using liquid crystals [91989]

1015

Aleksandra Czapla (Universite du Quebec en Outaouais, CA); Wojtek Bock (Universit  du Qu bec en Outaouais, CA); Tomasz Wolinski (Warsaw University of Technology, PL); Predrag Mikulic (Universit  du Qu bec en Outaouais, CA)

WM04.04: Poor Confinement of E-H Recombination Zone in Blue OLEDs [92797]

1117

Tarek Sadek (McMaster University, CA)

WM04.05: A Nanoelectronic Memory Array Design with Improved Performance [90745]

429

Mrimoy Barua (University of Western Ontario, CA); Zine-Eddine Abid (University of Western Ontario, CA)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Communications and Networking	
Session: WM05	Wired/Wireless Transmission Systems and Applications I	
Wednesday, May 7	Time: 9:45 a.m. - 11:30 a.m.	Room: Ontario
	Chair: Dr. Abdul Yarali	Murray State University, USA
		Proceedings Page No.
WM05.01: An Analysis of Captured Industrial Vehicular Noise Signals for ZigBee Communications [93545]		1423
Lily Woo (University of Manitoba, CA); Witold Kinsner (University of Manitoba, CA); Ken Ferens (University of Manitoba, CA)		
WM05.02: Impact of Transmission Error in DCH Channel on the Performance of UMTS Networks [94635]		1893
Jafar Kazemi (Tarbiat Modares University, IR); Keivan Navaie (Carleton University, CA)		
WM05.03: Throughput and PN Codephase Acquisition for Packet CDMA without Preamble [92927]		1179
Md. Sajjad Rahaman (University of Illinois at Chicago, US)		
WM05.04: A Novel MILP Formulation for Planning GMPLS Transport Networks with Conversion and Regeneration Capabilities [90897]		569
Nabil Naas (University of Ottawa, CA); Hussein Mouftah (University of Ottawa, CA)		
WM05.05: A fuzzy decision making strategy for vertical handoffs [90909]		583
Abdellatif Ezzouhairi (École Polytechnique de Montréal, CA); Alejandro Quintero (Ecole Polytechnique de Montreal, CA); Samuel Pierre (Ecole Polytechnique de Montreal, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Communications and Networking

Session: WM06 MIMO Communications I

Wednesday, May 7 Time: 9:45 a.m. - 11:30 a.m.

Room: Canadiana

Chair: Dr. Mohsen Kavehrad

Pennsylvania State University, USA

Proceedings Page No.

WM06.01: Low Complexity Implementations of Sphere Decoding for MIMO Detection [91139]

821

Farnaz Shayegh (Concordia University, CA); M. Reza Soleymani (Concordia University, CA)

WM06.02: On The Performance Of Down Link SFBC-MIMO-CDMA Systems [87589]

129

Taimour Aldalgamouni (Concordia University, CA); Ahmed Elhakeem (Concordia University, CA)

WM06.03: Receive Soft Antenna Selection for Spatial-Multiplexing MIMO Systems in Interference-Dominated Channels [90929]

627

Javad Ahmadi-Shokouh (University of Waterloo, CA); S. Hamidreza Jamali (University of Tehran, IR); Safieddin Safavi-Naeini (University of Waterloo, CA)

WM06.04: Switch Loss and Antenna Directivity Effects on MIMO Antenna Selection [90935]

641

Javad Ahmadi-Shokouh (University of Waterloo, CA); S. Hamidreza Jamali (University of Tehran, IR); Safieddin Safavi-Naeini (University of Waterloo, CA); Gholamreza Rafi (University of Waterloo, CA)

WM06.05: Closed Form Capacity Analysis of MIMO Wireless Channels [89337]

199

S. M. Humayun Kabir (Information and Communications University, KR); Giwan Yoon (Information and Communications University, KR)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Computer Systems and Applications

Session: WM07 Software Programming I

Wednesday, May 7 Time: 9:45 a.m. - 11:30 a.m.

Chair: Dr. Vadim Geurkov

Ryerson University, Canada.

Room: Chippawa

Proceedings Page No.

WM07.01: Searching for Structure in Data with Fuzzy Clusters of Variable Dimensionality of Feature Subspaces [93541] 1417

Adam Pedrycz (Tokyo Institute of Technology, CA)

WM07.02: Semantic Annotation for Semi-Structured Documents [91255] 919

Yevgen Biletskiy (University of New Brunswick, CA)

WM07.03: Harnessing Overgeneralization in the Synthesis of State Machines From Scenarios [92751] 1107

Abdolmajid Mousavi (PhD student, university of Calgary, CA); Behrouz Homayoun Far (University of Calgary, CA)

WM07.04: Case For Enriching Developer's Toolkit With Goal Oriented Requirements Methodologies [91057] 743

Swapan Sikdar (Ryerson University, CA); Olivia Das (Ryerson University, CA)

WM07.05: Data Integration in Distributed Medical Information Systems [93653] 1497

Alberto Amato (Politecnico di Bari, IT); Vincenzo Di Lecce (Politecnico di Bari, IT); Marco Calabrese (Polytechnic of Bari, IT)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Computer Systems and Applications

Session: WM08 FPGA

Wednesday, May 7 Time: 9:45 a.m. - 11:30 a.m.

Room: Muskoka

Chair: Dr. Andy Ye

Ryerson University, Canada.

Proceedings Page No.

WM08.01: Fast FPGA-Based Area And Latency Estimation For A Novel Hardware/Software Partitioning Scheme [91103] 775

Mohamed Abdelhalim (Cairo University, EG); Serag Habib (Cairo University, EG)

WM08.02: Implementation of Vector floating-point processing unit on FPGAs for high performance computing [91211] 881

Shi Chen (Memorial University, CA); Ramachandran Venkatesan (Memorial University of Newfoundland, CA); Paul Gillard (Department of Computer Science, Memorial University, CA)

WM08.03: Dynamic Programming Approach to High Frame Rate Stereo Correspondence: A Pipelined Architecture Implemented on a Field Programmable Gate Array [93633] 1461

Siraj Sabihuddin (University of Toronto, CA); Jamin Islam (Ryerson University, CA); James MacLean (University of Toronto, CA)

WM08.04: Lowering Power Consumption Using Run-time Reconfiguration For Stereo Rectification [93831] 1693

Jamin Islam (Ryerson University, CA); Pill Woo Chun (Ryerson University, CA); James MacLean (University of Toronto, CA); Lev Kirischian (Ryerson University, CA)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Signal and Multimedia Processing	
Session: WM09	Image Processing III	
Wednesday, May 7	Time: 9:45 a.m. - 11:30 a.m.	Room: Hennepin South
	Chair: Mr. Raymond Phan	Ryerson University, Canada.
		Proceedings Page No.
WM09.01: Perceptually-Adaptive Color Enhancement of Still Images for Individuals with Dichromacy [95017]		2027
Alexander Wong (University of Waterloo, CA); William Bishop (University of Waterloo, CA)		
WM09.02: Color Texture Retrieval Using Wavelet Decomposition in the Independent Components Color Space [93501]		1379
Ye Mei (Ryerson University, CA); Dimitri Androustos (Ryerson University, CA)		
WM09.03: Boosting Chromatic Information for Face Recognition [90919]		611
Tejaswini Ganapathi (University of Toronto, CA); Konstantinos Plataniotis (University of Toronto, CA); Yong Man Ro (Information Communication Univ, KR)		
WM09.04: Colour Logo and Trademark Detection in Unconstrained Images using Colour Edge Gradient Co-occurrence Histograms [90865]		531
Raymond Phan (Ryerson University, CA); John Chia (Ryerson University, CA); Dimitri Androustos (Ryerson University, CA)		
WM09.05: Novel Artifact Detection for Motion Compensated Deinterlacing [90815]		493
Arvin Chiang (National Taipei University of Technology, TW); Yu-Cheng Fan (National Taipei University of Technology, TW)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Controls and Robotics	
Session: WM10	Control Systems III	
Wednesday, May 7	Time: 9:45 a.m. - 11:30 a.m.	Room: Oaks South
	Chair: Dr. Ramon Vilanova	Universitat Autònoma de Barcelona, Spain
		Proceedings Page No.
WM10.01: Exponential Stabilization of LPV Systems: An LMI Approach [89383]		203
Mostafa Soliman (University of Calgary, CA)		
WM10.02: Closed-Loop Interaction and Performance considerations for decentralized control of two-by-two multivariable systems [91049]		725
Ramon Vilanova (Universitat Autònoma de Barcelona, ES)		
WM10.03: PID tuning for cascade control system design [93897]		1775
Ramon Vilanova (Universitat Autònoma de Barcelona, ES); Orlando Arrieta (Universitat Autònoma de Barcelona, ES)		
WM10.04: Multirate Model Tracking Control for Linear-Time Invariant Systems [94921]		1959
Vahid Zakeri (Shiraz University, IR); Ali Reza Khayatian (Shiraz University, IR)		
WM10.05: Altitude Control of Aircraft Using Coefficient-based Policy Method [90633]		361
Ju Jiang (Nanjing University of Aeronautics and Astronautics, China, CA); Huajun Gong (Nanjing University of Aeronautics and Astronautics, China, CN); Jianye Liu (Nanjing University of Aeronautics and Astronautics, CN); Haiyan Xu (University of Waterloo, CA); Ye Chen (University of Waterloo, CA)		

IEEE

Keynote Presentation 3

Wednesday, May 7, 2008 at 12:30pm in Oakes North Ballroom

Challenges in the Design of Adaptive, Intelligent and Cognitive Systems

Dr. Witold Kinsner

**Professor and Associate Head of Computer Engineering
University of Manitoba**

Details Page 023

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Power Electronics and Systems
Session: WA01 Power Systems III
Wednesday, May 7 Time: 1:30 p.m. - 3:15 p.m. Room: Micmac
Chair: Dr. Mohamed El-Hawary Dalhousie University, Canada

Proceedings Page No.

WA01.01: Bidding Wind Power in Short-Term Electricity Market Based on Multiple-Objective Fuzzy Optimization [92853] 1135

Yaosuo Xue (University of New Brunswick, CA); B Venkatesh (University of New Brunswick, CA); Liuchen Chang (University of New Brunswick, CA)

WA01.02: Commutaion Failure Recognition in HVDC Systems Using Wavelet and Shannon Entropy [94641] 1897

Yuhong Wang (Southwest Jiaotong University, CN); Qunzhan Li (Southwest Jiaotong University, CN); Xiaoqiong He (Southwest Jiaotong University, CN); Cao Wen (State Grid Corp. of China, CN)

WA01.03: The Most Suitable Mother Wavelet for Steady-State Power System Distorted Waveforms [70899] 17

Mohamed El-Hawary (Dalhousie University, CA)

WA01.04: Locational Marginal Pricing Prediction in a Competative Electrical Market using computational Intelligence [91059] 747

Zidan Bashir (Dalhousie University, CA); Mohamed El-Hawary (Dalhousie University, CA)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Power Electronics and Systems	
Session: WA02	Other Technologies in Power Engineering II	
Wednesday, May 7	Time: 1:30 p.m. - 3:15 p.m.	Room: Tuscarora
	Chair: Dr. Amr Elnady	University of Waterloo, Canada
		Proceedings Page No.
WA02.01: Finite Element Analysis of a Virtual Air Gap Variable Transformer [91217]		891
Dale Dolan (University of Toronto, CA); Peter Lehn (University of Toronto, CA)		
WA02.02: Implementation of The Linear Digital Filter for Extracting Stationary Power Quality Disturbances [93503]		1383
Amr Elnady (Assistant Prof., CA)		
WA02.03: On-Line Estimation of Inductance of Flexible Cables and Electrode Arms in an Electric Arc Furnace by Artificial Neural Network [93679]		1507
Hamid Khoshkhoo (Amirkabir University of Technology, IR); Seyed Hossein Hesamedin Sadeghi (Amirkabir University of Technology, IR); Rouzbeh Moini (Amirkabir University of Technology, IR)		
WA02.04: Design Strategy For Optimum Rating Selection In Interline DVR [94807]		1919
Hamid Karshenas (Isfahan University of Technology, IR); Majid Moradlou (Isfahan University of Technology, IR)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Signal and Multimedia Processing	
Session: WA03	Signal and Multimedia Processing and Applications	
Wednesday, May 7	Time: 1:30 p.m. - 3:15 p.m.	Room: Hennepin North
	Chair: Dr. Kunio Takaya	University of Saskatchewan, Canada.
		Proceedings Page No.
WA03.01: Tracking a Video Object with the Active Contour (Snake) Predicted by the Optical Flow [90655]		369
Kunio Takaya (University of Saskatchewan, CA)		
WA03.02: A SVM Classifier Combined with PCA for Ultrasonic Crack Size Classification [93767]		1627
Chuxiong Miao (University of Alberta, CA); Yu Wang (University of Alberta, CA); Yonghong Zhang (University of Alberta, CA); Jian Qu (University of Alberta, CA); Ming Zuo (University of Alberta, CA); Xiaodong Wang (University of Alberta, CA)		
WA03.03: Designing a Hardware Accelerator for Vector Quantization as a Component of a SoPC. [90807]		479
Thuan Huynh (University of Natural Sciences, HCM - VNU, Vietnam, VN)		
WA03.04: An Ant Colony Optimization Approach for Test Pattern Generation [93527]		1397
Haidar Harmanani (Lebanese American University, LB)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Communications and Networking	
Session: WA04	System Design and Implementation	
Wednesday, May 7	Time: 1:30 p.m. - 3:15 p.m.	Room: Ontario
	Chair: Dr. Mohamed Ibnkahla	Queens University, Canada
		Proceedings Page No.
WA04.01: Cost Effective Reconfigurable Architecture for Stream Processing Applications [90870]		541
Valeri Kirischian (Ryerson University, CA); Vadim Geurkov (Ryerson University, CA)		
WA04.02: A Pipelined Implementation of OFDM transmission on reconfigurable platforms [91117]		801
Ahmad Sghaier (University of Guelph, CA); Shawki Areibi (University of Guelph, CA); Robert Dony (University of Guelph, CA)		
WA04.03: Design and Hardware Implementation of Look-Up Table Predistortion on ALTERA Stratix DSP Board [93705]		1535
Mohamed Ibnkahla (Queen's University, CA); Hisham Alasady (Queen's University, CA)		
WA04.04: Robust transceiver design for geometric mean decomposition systems with limited precoder feedback [91279]		951
Matthew Dorrance (Carleton University, CA); Ian Marsland (Carleton University, CA)		
WA04.05: Designing an UWB Patch Antenna with Band Notched by using L-Shaped Slot and Unsymmetrical Feedline [86469]		101
AHM Alam (Inetrnational Islamic University Malaysia, MY); Md Islam (International Islamic University Malaysia, MY); Sheroz Khan (Inetrnational Islamic University Malaysia, MY)		
WA04.06: Low Cost Indoor Environment for Antenna Measurement [93471]		1353
M N Mahabubul Chowdhury (Ryerson University, CA); Shazzat Hossain (Dhaka University of Engineering & Technology, BD); Lian Zhao (Ryerson University, CA); Zaiyi Liao (Ryerson University, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Communications and Networking	
Session: WA05	MIMO Communications II	
Wednesday, May 7	Time: 1:30 p.m. - 3:15 p.m.	Room: Canadiana
	Chair: Dr. Murat Uysal	University of Waterloo, Canada
		Proceedings Page No.
WA05.01: MMSE Detection for Space-Time Block Coding over Time-Selective Fading Channels [92671]		1081
Donghun Yu (Seoul National University, KR)		
WA05.02: Dynamic-List Joint Detection and Decoding of LDPC-Coded V-BLAST Systems [93821]		1679
Meng-Ying Tsai (Queen's University, CA); Shahram Yousefi (Queen's University, CA)		
WA05.03: A New Sub-ML Detection Method for Variable-rate Space-time Block Codes [93389]		1293
Nooshin Kiarashi (Queen's University, CA); Shahram Yousefi (Queen's University, CA)		
WA05.04: Design Rules for Extended Super-Orthogonal Space-Time Trellis Codes [93761]		1621
Francois Chan (Royal Military College, CA)		
WA05.05: Groupwise successive interference cancellation for MIMO communication systems [93643]		1483
Amirhossein Rafati (Shiraz University, IR); Mehrzad Biguesh (Shiraz University, IR); Saeed Gazor (Queen's University, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Computer Systems and Applications	
Session: WA06	Software Programming II	
Wednesday, May 7	Time: 1:30 p.m. - 3:15 p.m.	Room: Auditorium
	Chair: Dr. Nedjet Kamel	University of Moncton, Canada
		Proceedings Page No.
WA06.01: Verification of Program Dynamic Behaviours based on Static Analysis [89703]		219
Paul Dasiewicz (University of Waterloo, CA); Shanwei Xu (University of Waterloo, CA)		
WM06.02 Un modèle pour une satisfaction implicite des propriétés d'utilisabilité CARE pour les IHM multimodales [90173]		279
Nadjet Kamel (University of Moncton, CA); Sid-Ahmed Selouani (Université de Moncton, campus of Shippagan, CA); Habib Hamam (University of Moncton, CA)		
WA06.03: A Practical Ontology-Based Concept Learning in MAS [90567]		335
Zilan Yang (University of Calgary, CA); Cheng Zhong (University of Calgary, CA); Behrouz Homayoun Far (University of Calgary, CA)		
WA06.04: Un système multi-agent pour la présentation d'expressions mathématiques a des utilisateurs non-voyants [90891]		565
Ali Awde (École de Technologie Supérieure, CA); Chakib Tadj (Ecole de Technologie Superieure, CA); Yacine Bellik (University of Orsay, FR)		
WA06.05: Customizing the Capture of Software Architectural Design Decisions [91009]		693
Larix Lee (University of British Columbia, CA); Philippe Kruchten (UBC - ECE, CA)		
WA06.06: An integrated approach to security in software development methodologies [95007]		2011
Abhay Raman (University of Ottawa, CA); Steven Muegge (Carleton University, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Computer Systems and Applications	
Session: WA07	Algorithmic Designs and Testing	
Wednesday, May 7	Time: 1:30 p.m. - 3:15 p.m.	Room: Chippawa
	Chair: Dr. Bijan Raahemi	University of Ottawa, Canada
		Proceedings Page No.
WA07.01: How Chaos Theory improves Data Mining in Research by means of ALEV [91027]		703
Werner Toplak (Arsenal Research, AT)		
WA07.02: Classification of Peer-to-Peer Traffic using Incremental Neural Networks (Fuzzy ARTMAP) [91047]		719
Bijan Raahemi (University of Ottawa, CA)		
WA07.03: Efficiency Competition on N-Queen Problem: DE vs. CMA-ES [79989]		33
Shahryar Rahnamayan (University of Waterloo, CA); Paul Dieras (INSA of Lyon, FR)		
WA07.04: A Computational Engine For Petroleum Application Using Genetic Algorithms [89831]		245
Liangjie He (Memorial University of Newfoundland, CA); Shiliang Lu (Memorial University of Newfoundland, CA); Phillip Bording (Memorial University of Newfoundland, CA)		
WA07.05: An Error-Locating Signature Analyzer to Identify Faulty Units in Digital Systems [92655]		1073
Vadim Geurkov (Ryerson University, CA); Vladimir Dynkin (Institute for Control Science, RU); Reza Sedaghat (Ryerson University, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Signal and Multimedia Processing	
Session: WA08	Image Processing IV	
Wednesday, May 7	Time: 1:30 p.m. - 3:15 p.m.	Room: Hennepin South
	Chair: Dr. Dimitri Androutsos	Ryerson University, Canada
		Proceedings Page No.
WA08.01: Calculation of abundance factors in Hyperspectral imaging using Genetic Algorithm [91161]		837
Masoud Farzam (University of Ryerson, CA); Soosan Beheshti (Ryerson, CA); Kaamran Raahemifar (Ryerson University, CA)		
WA08.02: Realistic Real-Time Water Effects in 2D Images [91371]		987
Richard Rzeszutek (Ryerson University, CA); Dimitri Androutsos (Ryerson University, CA)		
WA08.03: An Algorithm for Haptically Rendering Objects Described by Point Clouds [93600]		1443
Naim El-Far (University of Ottawa, CA); Nicolas Georganas (University of Ottawa, CA); Abdulmotaleb El Saddik (University of Ottawa, CA)		
WA08.04: Everywhere Image Projection with Radiometric Compensation [90573]		339
Mie Sato (Utsunomiya University, JP)		
WA08.05: A Human Visual Model For Steganography [92661]		1077
Abbas Ali Lotfi Neyestanak (Iranian Research Institute for Electrical Eng., IR)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Circuits, Devices and Systems

Session: WA09 RF and Microwave Components

Wednesday, May 7 Time: 1:30 p.m. - 3:15 p.m.

Chair: Dr. Tony Chan Carusone

University of Toronto

Room: Muskoka

Proceedings Page No.

WA09.01: Micro-strip Line Based Compact Wideband Branch-Line Coupler Lumped Distributed Element Transformations [91785] 1007

Fahim Hassam (Schulich School of Engineering, University of Calgary,, CA); Slim Boumaiza (University of Waterloo, CA)

WA09.02: A Direct Digital 1 Gb/s Modulator/Demodulator Experiment in free space using GaAs HBT at 30 GHz [92413] 1035

Al Freundorfer (Queen's University, CA); Karim Hamed (Queen's, CA); Yahia Antar (Royal Military College of Canada, CA)

WA09.03: A 60-GHz Variable Delay Line on CMOS for Steerable Antennae in Wireless Communication Systems [94789] 1915

Chien Ta (University of Melbourne, AU); Efstratios Skafidas (National ICT Australia, AU); Robin Evans (University of Melbourne, AU); Chien Hoang (Ho Chi Minh City University of Technology, VN)

WA09.04: Design and Implementation of an X-Band White Gaussian Noise Generator [92705] 1103

Norooz Motamedi (Isfahan University of Technology, IR); Gholamreza Askari (Isfahan University of Technology, IR)

WA09.05: Mutual coupling reduction between two microstrip patch antennas [91055] 739

Abbas Ali Lotfi Neyestanak (Iranian Research Institute for Electrical Eng., IR)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Controls and Robotics	
Session: WA10	Advances in Robotic and Intelligent Systems	
Wednesday, May 7	Time: 1:30 p.m. - 3:15 p.m.	Room: Oaks South
	Chair: Dr. Max Meng	The chinese University of Hong Kong, China
		Proceedings Page No.
WA10.01: Improving Free Space Trajectory Tracking in Wave-Variable-Based Teleoperation [95823]		2041
Peter Liu (Carleton University, CA); Yongqiang Ye (Carleton University, CA); Max Meng (The Chinese University of Hong Kong, HK)		
WA10.02: A Robust Multilateral Shared Controller for Dual-User Teleoperation Systems [94301]		1871
Behzad Khademian (Queen's University, CA); Keyvan Hashtrudi-Zaad (Queen's University, CA)		
WA10.03: Design and implementation on software platform of emergency management system for traffic incidents [90805]		475
Guolin Wang (Dalhousie University, CA); Deyun Xiao (Tsinghua Univ, CN); Jason Gu (Dalhousie University, CA)		
WA10.04: Computer aided detection of bleeding regions in capsule endoscopy images [94925]		1963
Baopu Li (The Chinese University of Hong Kong, HK); Max Meng (The Chinese University of Hong Kong, HK)		
WA10.05: Cooperative Amplify and Forward in the Presence of Multiple Selfish Relays: Performance Analysis [95871]		2045
Chengnian Long (University of Alberta, CA); Tongwen Chen (University of Alberta, CA); Xiping Guan (Shanghai Jiao Tong University, CN)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Power Electronics and Systems
Session: WE01 Power Converters and Drives V
Wednesday, May 7 Time: 3:30 p.m. - 5:15 p.m. Room: Oaks South
Chair: Dr. Aime Francis Okou Royal Military College of Canada, Canada

Proceedings Page No.

WE01.01: Modelling and Analysis of Parallel Operated Inverters [94981] 1999

Nacer Benaifa (University of Calgary, CA); Hussain Bierk (University of Calgary, CA); Babatola Ajayi (University of Calgary, CA); Ed Nowicki (University of Calgary, CA)

WE01.02: A robust adaptive controller for a three-phase three-level neutral-point clamped rectifier [85405] 95

Francis OKOU (Royal Military College of Canada, CA); Aphi Amoussou (RMC, CA)

WE01.03: Parallel Operated Inverters as a Multilevel Case [94983] 2003

Nacer Benaifa (University of Calgary, CA); Hussain Bierk (University of Calgary, CA); Babatola Ajayi (University of Calgary, CA); Ed Nowicki (University of Calgary, CA)

WE01.04: A Comparative Study of Three-Phase Single-Switch Buck Converters [90487] 317

Sondeep Bassan (University of Western Ontario, CA); Gerry Moschopoulos (University of Western Ontario, CA)

WE01.05: A New Three-Phase Boost Inverter: Topology and Controller [91073] 757

Behnam Koushki (Isfahan University of Technology, IR); Hamed Khalilinia (Isfahan University of Technology, IR); Jafar Ghaisari (Isfahan University of Technology, IR); Mortaza Saghaian Nejad (Isfahan University of Technology, IR)

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Power Electronics and Systems	
Session: WE02	Other Technologies in Power Engineering III	
Wednesday, May 7	Time: 3:30 p.m. - 5:15 p.m.	Room: Tuscarora
	Chair: Dr. Yongqiang Lang	Ryerson University, Canada
		Proceedings Page No.
WE02.01: A Fuzzy ARTMAP Based High Impedance Arc Fault Detection Scheme [91193]		871
Syed Muhammad Atif Saleem (University of New Brunswick, CA); Adel Sharaf (University of New Brunswick, CA)		
WE02.02: Lightning Return-Stroke Transmission Line Model Based on CN Tower Lightning Data and Derivative of Heidler Function [93983]		1861
Mariusz Milewski (Ryerson University, CA)		
WE02.03: Steady-state Analysis of Self-excited Synchronous Reluctance Generator [93759]		1617
Salah-ud-Din Rana (University of Windsor, CA); Narayan Kar (University of Windsor, CA)		
WE02.04: Bi-directional Power Electronic Transformer for Induction Heating Application [90581]		347
Seyed Hossein Hosseini (Tabriz University, IR); Mohammad Bagher Bana Sharifian (University of Tabriz, IR); Mehran Sabahi (University of Tabriz, IR); Ali Yazdanpanah (University of Tabriz, IR); G H Gharehpetian (Amirkabir University of Technology, IR)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Biomedical Engineering	
Session: WE03	Health Information Systems/ Emerging Biomedical Technologies	
Wednesday, May 7	Time: 3:30 p.m. - 5:15 p.m.	Room: Auditorium
	Chair: Dr. James Green	Cartelon University
		Proceedings Page No.
WE03.01: PCI-SS: Web-Based Human And Machine Interfaces for Protein Secondary Structure Prediction [93787]		1647
Mohammed Aboul-Magd (Carleton University, CA); James Green (Carleton University, CA)		
WE03.02: The Effect of Growth Rate on Diversity in a Community Assembly Model [91847]		1011
Wendy Ashlock (University of Guelph, CA)		
WE03.03: EarBiometrics Using Jet Space Similarity [93305]		1259
Daishi Watabe (Saitama Institute of Technology, JP); Hideyasu Sai (Saitama Institute of Technology, JP); Katsuhiko Sakai (Saitama Institute of Technology, JP); Osamu Nakamura (Kogakuin University, JP)		
WE03.04: Visualization and Construction of Real Time Web Centric Intelligent Health Care Diagnostic System using UML [90839]		501
Vittal Bai (Teaching, IN)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Communications and Networking	
Session: WE04	Wired/Wireless Transmission Systems and Applications II	
Wednesday, May 7	Time: 3:30 p.m. - 5:15 p.m.	Room: Ontario
	Chair: Dr. Abdul Yarali	Murray State University, USA
		Proceedings Page No.
WE04.01: WiMAX Broadband Wireless Access Technology : Services, Architecture and Deployment Models [83669]		77
Abdulrahman Yarali (Murray State University, US); Saifur Rahman (Virginia Tech, US)		
WE04.02: Optimal Linear-Time QoS-Based Scheduling for WiMAX [93915]		1811
Arezou Mohammadi (Queen's University, CA); Selim Akl (Queen's University, CA); Firouz Behnamfar (Queen's University, CA)		
WE04.03: Transmission Strategies for High-Speed Access Over Category-7A Copper Wiring [92623]		1065
Ali Enteshari (Pennsylvania State University, US); Mohsen Kavehrad (The Pennsylvania State University, USA)		
WE04.04: Multi Agent System to Promote Electronic Data Interchange in Port Systems [91051]		729
Vincenzo Di Lecce (Politecnico di Bari, IT); Alberto Amato (Politecnico di Bari, IT); Marco Calabrese (Polytechnic of Bari, IT); Alessandro Quarto (Polytechnic of Bari - II Faculty, IT)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Communications and Networking	
Session: WE05	Multicarrier/OFDM and CDMA-Based Wireless Access	
Wednesday, May 7	Time: 3:30 p.m. - 5:15 p.m.	Room: Canadiana
	Chair: Dr. Alagan Anpalagan	Ryerson University, Canada
		Proceedings Page No.
WE05.01: Hardware Aspects of Fixed Relay Station Design for OFDM(A) Based Wireless Relay Networks [90601]		355
Basak Can (Intel Corporation and Aalborg University, US); Maciej Portalski (Aalborg University, DK); Yannick Le Moullec (Aalborg University, DK)		
WE05.02: PAPR Reduction of OFDM Signals Using Autocorrelation Based SLM Without Side Information [83518]		71
Ibrahim Hussain (Sir Syed University of Engineering and Technology, PK); Imran Tasadduq (FAST-National University, PK)		
WE05.03: Log Likelihood Ratios for Convolutionally Encoded Parity Bit Selected DS-SS System [93193]		1251
Alireza Mirzaee (University of Ottawa, CA); Claude D'Amours (School of Information Technology and Engineering(SITE), University of Ottawa, CA)		
WE05.04: Performance of wavelet packet modulation-based multicarrier spread spectrum system over a Rayleigh fading channel [92803]		1125
Li-ping Zhu (Central University For Nationalities, CN)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Computer Systems and Applications	
Session: WE06	Software Programming and Security	
Wednesday, May 7	Time: 3:30 p.m. - 5:15 p.m.	Room: Chippawa
	Chair: Dr. Abdolreza Abhari	Ryerson University, Canada
		Proceedings Page No.
WE06.01: Monitoring Multi-Agent Systems for Deadlock Detection Based on UML Models [93755]		1611
Nariman Mani (University of Calgary, CA); Vahid Garousi (University of Calgary, CA); Behrouz Homayoun Far (University of Calgary, CA)		
WE06.02: A Group Key Agreement Protocol Using Bilinear Pairing [90887]		561
Esam Elsheh (Concordia University, CA)		
WE06.03: Utilizing Security Requirements Engineering Methods for Operational Security Maintenance Purposes [93971]		1843
Khalil Abuosba (The Arab Academy for Banking and Financial Sciences, JO); Asim El Sheikh (The Arab Academy for Banking and Financial Sciences, JO); Clemens Martin (University of Ontario Institute of Technology, CA)		
WE06.04: Analysis of problems associated with IPSec VPN Technology [94739]		1903
Olalekan Adeyinka (University of East London, UK)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Circuits, Devices and Systems	
Session: WE07	Device Modeling	
Wednesday, May 7	Time: 3:30 p.m. - 5:15 p.m.	Room: Hennepin North
	Chair: Dr. M.P. Anantram	University of Waterloo, Canada
		Proceedings Page No.
WE07.01: New Model of Ultra Short Symmetric Double Gate MOSFET [86567]		105
Wael El Manhawey (Mentor Graphics, EG); Wael Fikry (Mentor Graphics, EG); Serag Habib (Cairo University, EG)		
WE07.02: Configurable Active-Region-Cutout-Transistor for Radiation Hardened Circuit Applications [93097]		1215
Shuza Binzaid (Prairie View A&M University, US); John Attia (PVAMU, US)		
WE07.03: Investigating an Aggressive Mode for Drowsy Cache Cells [91221]		901
Dalia El-Dib (University of Western Ontario, CA); Heba Shawkey (Electronic Research Institute, EG); Zine-Eddine Abid (University of Western Ontario, CA)		
WE07.04: Simulation of Soft and Hard Breakdown of Ultra-thin Oxides [93797]		1651
Leila Rezaee (University of Waterloo, CA); C. R. Selvakumar (University of Waterloo, CA)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium	Signal and Multimedia Processing	
Session: WE08	Signal Processing Algorithms & Architectures II	
Wednesday, May 7	Time: 3:30 p.m. - 5:15 p.m.	Room: Hennepin South
	Chair: Dr. Asghar Beheshti	Iran University of Science and Technology, Iran
		Proceedings Page No.
WE08.01: A Set-Membership NLMS Algorithm with Adaptive Error Bound [94999]		2007
Andreas Antoniou (University of Victoria, CA); Md. Zulfiqar Bhotto (University of Victoria, CA)		
WE08.02: Spatial and Spectral Encoding Technique for Optical Detection Systems [90673]		377
Konrad Duerr (University of British Columbia (UBC) Okanagan, CA); Jamil Chaudry (University of British Columbia (UBC) Okanagan, CA); Rudolf Seethaler (University of British Columbia (UBC) Okanagan, CA); Jonathan Holzman (University of British Columbia (UBC) Okanagan, CA)		
WE08.03: A Novel Method for Real-Time Audio Watermarking Using Wavelet Transform [84459]		83
Mahmood Movassagh (IUST, IR); Ali Asghar Beheshti (Iran University of Science and Technology, IR)		
WE08.04: Noise Reduction in Digital IIR Filters By Finding Optimum Arrangement of Second-Order Sections [91001]		689
Milad Lankarany (Master Student of Electrical Engineering, IR); Hossein Marvi (Professor, IR)		
WE08.05: A New Adaptive Beamformer for Optimal Acoustic Echo and Noise Cancellation with Less Computational Load [87511]		123
Jafar Mohammed (Punjab Engineering College, IN)		

IEEE Canadian Conference on Electrical and Computer Engineering

Symposium Circuits, Devices and Systems

Session: WE09 Circuit Modeling

Wednesday, May 7 Time: 3:30 p.m. - 5:15 p.m.

Room: Muskoka

Chair: Dr. Andy Ye

Ryerson University, Canada.

Proceedings Page No.

WE09.01: Steady State Thermal Analysis of a Reconfigurable Wafer-Scale Circuit Board [90735] 411

Mohammed Bougataya (Université du Québec en Outaouais, CA); Ahmed Lakhsasi (Université du Québec en Outaouais, CA); Richard Norman (NRL, CA); Richard Prytula (TechnoCap Inc., CA); Yves Blaquière (UQAM, CA); Yvon Savaria (École Polytechnique de Montréal, CA)

WE09.02: Adequate choice of trial functions used in integral method for modeling asymmetric coupled microstrip structures [89791] 239

Abdelhamid Khodja (U.S.T.H.B university, DZ); Rachida Touhami (Université des Sciences et de La Technologie HOUARI BOUMEDIENE, DZ); Mustapha Yagoub (University of Ottawa, CA); H. Baudrand (Enseeiht, FR)

WE09.03: Multi-Tap Connection Architectures for Application Specific Integrated Circuits [93783] 1635

Arie Margulis (Advanced Micro Devices, CA); Dimitry Akselrod (McMaster university, CA)

WE09.04: Sensitivity Analysis of Shielded Coupled Interconnects for RFIC Applications [89551] 215

Mohammad Moghaddam Tabrizi (University of Tehran, IR); Nasser Masoumi (University of Tehran, IR); Mahsa Deilami (University of Science and Technology, IR)

WE09.05: Modeling The Influence Of Onboard Processing And Linearization Units On The Performance Enhancement Of A High Data Rate Satellite [91071] 753

Abbas Ali Lotfi Neyestanak (Iranian Research Institute for Electrical Eng., IR)

Index of Authors

Session Code:

Day: Monday, Tuesday, Wednesday

Program: Morning, Afternoon, Evening

Session Number, Presentation Number

Example: WM03.06 = Wednesday Morning Session 3 Presentation 6

Procedure Page Numbers refer to the Conference CD

IEEE – Canadian Conference on Electrical and Computer Engineering – 2008 Author Index

Author	Session	Page	Author	Session	Page	Author	Session	Page
Abdeen, Mohammad	TM06.04	1747	Alam, Md. Jahangir	MA07.01	631	Attia, John	WE07.02	1215
Abdollahim, Mohamed	WM08.01	775	Alasady, Hisham	WA04.03	1535	Attya, Ayman	MM02.03	1203
Abdollahian, Ali	TE02.05	43	Aldalgamouni, Taimour	WM06.02	129	Awde, Ali	WA06.04	565
Abdullah, Hussein	TM10.02	653	AlHajri, Mohamad	MM02.02	1543	Bagheri, Hamid Reza	WM01.04	713
Abedini, Asghar	TM01.05	1597	Alimadadi, Mehdi	MM09.01	947	Bahmani, Amir Hassan	TA07.01	11
Abediseid, Walid	TA04.04	793	Alkorta, Patxi	ME01.03	5	Bahmani, Behnam	TA07.01	11
Abhari, Abdolreza	TE07.03	1491	Alkorta, Patxi	TM10.04	1437	Bai, Vittal	WE03.04	501
Abhari, Abdolreza	TE07.02	1387	Almuhtadi, Wahab	TE05.03	937	Bai, Y.	ME09.05	183
Abid, Zine-Eddine	WE07.03	901	Altas, Ismail	MM01.04	1631	Bais, Abdul	TA09.05	1925
Abid, Zine-Eddine	WM04.05	429	Amarir, Said	TA02.03	1699	Balli, Tugce	TM03.05	485
Aboul-Magd, Mohammed	WE03.01	1647	Amato, Alberto	WE04.04	729	Bana Sharifian, Mohammad Bagher	WE02.04	347
Aboul-Seoud, Tarek	TM01.02	1743	Amato, Alberto	WM07.05	1497	Banik, Shantanu	TE03.03	179
Aboulnasr, Tyseer	TM09.04	381	Amer, Hassanein	MM08.02	771	Baradaran Nia, Mehdi	MA02.05	1269
Abu-Ayyad, Ma'moun	TM10.01	159	Amer, Hassanein	TA05.03	449	Baradaran Nia, Mehdi	MA02.04	1265
Abuosba, Khalil	WE06.03	1843	Amin, Nowshad	TA09.04	29	Barake, Bassem	MA06.03	1987
Adeyinka, Olalekan	WE06.04	1903	Amin, Nowshad	MM10.05	23	Barambones, Oscar	ME01.03	5
Affes, Sofiene	ME10.04	305	Amoussou, Aphi	WE01.02	95	Barambones, Oscar	TM10.04	1437
Aflaki, Pouya	ME09.03	1733	Androutsos, Dimitri	TM08.04	927	Barnawi, Abdulaziz	TE05.05	675
Agustiawan, Herman	WM02.06	1941	Androutsos, Dimitri	WM09.02	1379	Barsom, Maged	TM02.01	173
Ahmad, M. Omair	MA07.02	1819	Androutsos, Dimitri	WA08.02	987	Barua, Mrinmoy	WM04.05	429
Ahmad, M. Omair	ME06.01	1815	Androutsos, Dimitri	WM09.04	531	Bashandy, Ahmed	ME03.03	1403
Ahmadi-Shokouh, Javad	WM06.03	627	Andru, Peter	TA07.05	1973	Bashir, Zidan	WA01.04	747
Ahmadi-Shokouh, Javad	WM06.04	641	Antar, Yahia	WA09.02	1035	Bassan, Sandeep	WE01.04	317
Ahmadi, Majid	MM09.04	321	Antar, Yahia	MM07.01	1327	Baudrand, H.	WE09.02	239
Ahmadian, Mahmoud	TA04.02	805	Antoniu, Andreas	WE08.01	2007	Beaubrun, Ronald	TE07.01	251
Ahmed, Ejaz	TA07.04	1887	AOUAT, Salihia	TA01.05	155	Beaubrun, Ronald	TE07.04	1785
Ahmed, Mohamed Hossam	MM05.05	831	Araïn, Adnan	MA05.03	855	Beheshti, Ali Asghar	WE08.03	83
Ahmed, Mohamed Hossam	ME04.02	527	Areed, Fayed	TM10.02	653	Beheshti, Soosan	ME06.02	1183
Ahmed, Mohammed	TE05.01	257	Areibi, Shawki	WA04.02	801	Beheshti, Soosan	WA08.01	837
Ahmed, Rehan	TE06.01	433	Areibi, Shawki	ME07.01	551	Behjat, Laleh	MM10.02	931
Aissa, Sonia	TA04.01	489	Areibi, Shawki	TA06.01	149	Behnamfar, Firouz	WE04.02	1811
Ajayi, Babatola	WE01.01	1999	Arrieta, Orlando	WM10.03	1775	Bellemare, Adam	TA08.03	659
Ajayi, Babatola	WE01.03	2003	Arshad, Rizwana	TA09.05	1925	Bellik, Yacine	WA06.04	565
Ajaz, Muhammed Asim	MA03.03	797	Arslan, Mehmet	TE10.01	1433	Bemis, Steven	ME08.02	761
Akbarzadeh Tootoonchi, Mohammad reza	MA06.05	1855	Asgari, Mohammad Hossein	WM01.04	713	Ben Aloui, Nidhal	MA07.05	1531
Akl, Robert	MA04.01	1169	Asgarifar, Sanaz	MA02.05	1269	Ben Hamza, Abdessamad	MA05.05	1767
Akl, Selim	WE04.02	1811	Asgarifar, Sanaz	MA02.04	1265	Benaifa, Nacer	WE01.01	1999
Akram, Muhammad Usman	TM08.05	1967	Asghari, Vahid	TA04.01	489	Benaifa, Nacer	WE01.03	2003
Akselrod, Dmitry	MA10.02	1605	Ashlock, Daniel	MM03.02	1453	Benteau, Steve	MM03.01	595
Akselrod, Dmitry	WE09.03	1635	Ashlock, Daniel	MM10.03	847	Berenjkoub, Mehdi	MA05.01	1517
Al-Haddad, Kamal	TA02.03	1699	Ashlock, Wendy	WE03.02	1011	Bernal, Ariel	MM03.04	1219
Al-Haddad, Kamal	TA02.05	1297	Ashour, Mohamed	MA04.04	1801	Bernal, Ariel	MM06.02	1069
Al-Rizzo, Hussain	MA04.01	1169	Askari, Gholamreza	WA09.04	1103	Bernal, Luis	MM03.04	1219
Al-Sukhni, Emad	MM04.03	1553	Asta, John	WM03.01	1729	Bertrand, Christophe	TM06.05	851
Alam, AHM	WA04.05	101	Atrey, Pradeep	MM06.04	2037	Betker, Aimee	TA03.04	165

IEEE – Canadian Conference on Electrical and Computer Engineering – 2008 Author Index

Author	Session	Page	Author	Session	Page	Author	Session	Page
Bhotto, Md. Zulfikar	WE08.01	2007	Chang, David	ME08.03	815	Czapla, Aleksandra	WM04.03	1015
Bierk, Hussain	WE01.03	2003	Chang, Liuchen	TM01.01	405	D'Amours, Claude	WE05.03	1251
Bierk, Hussain	WE01.01	1999	Chang, Liuchen	TM10.03	923	Dagenais, Michel	TM06.01	261
Biguesh, Mehrzad	WA05.05	1483	Chang, Liuchen	TE01.03	1867	Daku, Brian	MM07.02	647
Biguesh, Mehrzad	MA03.02	1823	Chang, Liuchen	TE01.04	637	Daoud, Ramez	TA05.03	449
Biletskiy, Yevgen	WM07.02	919	Chang, Liuchen	ME01.02	575	Das, Arindam	ME05.03	1477
Biletskiy, Yevgen	ME05.02	1805	Chang, Liuchen	MM01.01	589	Das, Olivia	WM07.04	743
Binzaid, Shuza	WE07.02	1215	Chang, Liuchen	TM01.03	1175	Das, Olivia	ME05.03	1477
Bishop, William	WM09.01	2027	Chang, Liuchen	MM01.03	1255	Das, Pritam	TM02.02	313
Bishop, William	TA08.03	659	Chang, Liuchen	WA01.01	1135	Dasiewicz, Paul	WA06.01	219
Blanco, Román	TM03.03	867	Chang, Liuchen	MM02.04	1151	Davoudi, Ali	TE02.02	999
Blaquière, Yves	WE09.01	411	Chang, Liuchen	TA02.01	787	De La Villa, Pedro	TM03.03	867
Boag, Graham	TE03.03	179	Chang, Liuchen	TE01.01	981	De Rango, Floriano	TA05.04	1675
Bock, Wójtek	WM04.03	1015	Chang, Liuchen	TE01.02	619	De Rango, Floriano	MA04.05	1663
Bolic, Miodrag	MA07.03	497	Chau, Edward	ME07.01	551	De Rango, Floriano	ME03.05	1667
Bone, Gary	MA08.02	1145	Chaundry, Jamil	WE08.02	377	Dehkhoda, Fahimeh	MA02.05	1269
Bone, Gary	TA01.02	1139	CHEN, Dianyong	ME09.01	111	Deilami, Mahsa	WE09.04	215
Boquete, Luciano	TM03.03	867	Chen, Dongdong	MA09.01	1223	Delrobaei, Mehdi	MA08.03	1025
Bora, Prabin Kumar	WM03.04	887	Chen, Hao	ME04.02	527	Denidni, Tayeb A.	TA10.03	897
Bording, Phillip	WA07.04	245	Chen, Hsiao-Chung	ME09.05	183	Desnoyers, Mathieu	TM06.01	261
Bossio, Renato	ME10.04	305	Chen, Jinhua	ME10.02	861	Di Lecce, Vincenzo	WE04.04	729
Bostani, Ali	TA10.03	897	Chen, Li	MA09.01	1223	Di Lecce, Vincenzo	WM07.05	1497
Botchkarev, Alexei	TA07.05	1973	Chen, Shi	WM08.02	881	Diaz Amador, Roberto	TM07.04	1763
Bouchard, Martin	TM09.04	381	Chen, Tongwen	WA10.05	2045	Dieras, Paul	WA07.03	33
Bouchard, Martin	MA07.03	497	Chen, Xiao Yong	MM08.01	957	Dimitrov, Vassil	TE03.02	507
Bougataya, Mohammed	MA10.04	417	Chen, Ye	WM10.05	361	Ding, Ming	TE01.04	637
Bougataya, Mohammed	WE09.01	411	Cheng, Dezhong	ME09.01	111	Ding, Zhen	MM07.03	1569
Boukari, Bouraima	ME10.04	305	Cheung, Helen	MA01.01	1719	Ding, Zhen	MM07.05	1559
Boumaiza, Slim	TA09.01	1449	Cheung, Helen	MA01.02	1687	Dinh, Anh	ME02.01	1837
Boumaiza, Slim	WA09.01	1007	Cheung, Helen	WM01.01	1709	Dolan, Dale	WA02.01	891
Boustany, Charbel	MA10.04	417	Cheung, Helen	MA01.05	1849	Dony, Robert	TA06.01	149
Brault, Jean-Jules	MA10.01	1393	Chia, John	WM09.04	531	Dony, Robert	ME07.01	551
Bulzacki, Adrian	MA06.04	1003	Chiang, Andy	MM10.02	931	Dony, Robert	TM08.02	1503
Calabrese, Marco	WE04.04	729	Chiang, Arvin	WM09.05	493	Dony, Robert	WA04.02	801
Calabrese, Marco	WM07.05	1497	Chini Foroosh, Sina	ME01.01	1655	Dorrance, Matthew	WA04.04	951
Can, Basak	WE05.01	355	Chini Foroosh, Sina	TE02.02	999	Dosselmann, Richard	MM06.03	37
Cao, Bo	TE01.01	981	Chodavaranu, Vamsy	MA02.01	877	Doumbia, Mamadou Lamine	MM02.05	557
Cao, Yu	MA03.05	1539	Choi, Younhee	ME02.01	1837	Doyle, Phil	TM09.02	1715
Capson, David	TA08.01	1527	Choong Chiao Mei, Florence	MM10.05	23	Duerr, Konrad	WE08.02	377
Capson, David	TA08.02	1341	Chowdhury, M N Mahabubul	WA04.06	1353	Dumitriu, Victor	TA06.02	227
Cardenas-Barrera, Julian	TM07.04	1763	Chowdhury, Sazzadur	ME10.03	1121	Dynkin, Vladimir	WA07.05	1073
Castillo-Guerra, Eduardo	TM07.04	1763	Chun, Pill Woo	WM08.04	1693	Eklund, Mike	ME08.05	2015
Champagne, Benoit	ME06.03	193	Cleghorn, William	MA08.04	1093	El Kateeb, Ali	TE05.06	1031
Chan, Francois	WA05.04	1621	Coelho, Victor	ME07.03	301	El Manhaway, Wael	WE07.01	105
Chan, Yupo	MA04.01	1169	Cutt, Bryce	TA07.02	387	El Saddik, Abdulmotaleb	MA06.03	1987

IEEE – Canadian Conference on Electrical and Computer Engineering – 2008 Author Index

Author	Session	Page	Author	Session	Page	Author	Session	Page
El Saddik, Abdulmotaleb	WA08.03	1443	Forsati, Rana	ME05.01	1601	Gong, Huajun	WM10.05	361
El Saddik, Abdulmotaleb	MM06.04	2037	Forsati, Rana	TA04.05	1641	Gordy, James	TM09.04	381
El Sheikh, Asim	WE06.03	1843	Fortier, Paul	TA04.03	1831	Gosine, Ray	TA01.01	913
El-Asmar, Mohamad	TE09.02	1165	Fotuhi-Firuzabad, Mahmud	WM01.05	535	Goudarzi, Pejman	MA04.03	1
El-Dib, Dalia	WE07.03	901	Frejek, Michael	WA08.01	781	Govindaswamy, Visvasuresh Victor	TE04.02	89
El-Far, Naim	WA08.03	1443	Freundorfer, Al	WA09.02	1035	Grabner, Christian	TE02.03	295
El-Hag, Ayman	TE02.05	43	Frey, Douglas	ME07.03	301	Grabner, Christian	TE02.04	283
El-Hawary, Mohamed	MM02.01	65	Frounchi, Javad	MA02.05	1269	Grati, Khaled	TA06.04	601
El-Hawary, Mohamed	WA01.03	17	Frounchi, Javad	MA02.04	1265	Green, James	WE03.01	1647
El-Hawary, Mohamed	MM02.02	1543	Fuhrman, Christopher	TM06.05	851	Gregori, Stefano	MA09.02	2061
El-Hawary, Mohamed	WA01.04	747	G, Balasekaran	TE04.02	89	Gregori, Stefano	MM09.03	2057
El-Shemy, Naser	TE05.04	53	Galko, Peter	TA04.04	793	Gregori, Stefano	ME02.02	1759
Elhakeem, Ahmed	WM06.02	129	Galupa, Nicolae	MA09.03	343	Griffin, Courtenay	MM03.01	595
Elhossini, Ahmed	TA06.01	149	Ganapathi, Tejaswini	TM08.03	1549	Gu, Jason	MA08.05	975
Elleuch, Wajdi	ME03.02	905	Ganapathi, Tejaswini	WM09.03	611	Gu, Jason	WA10.03	475
Elnady, Amr	WA02.02	1383	Garabandic, Djordje	TA02.02	399	Guan, Ling	MA06.02	1513
Elnahas, Amal	ME03.03	1403	Garousi, Vahid	TE07.05	1575	Guan, Ling	MA06.04	1003
Elsheh, Esam	WE06.02	561	Garousi, Vahid	WE06.01	1611	Guan, Xiping	WA10.05	2045
Elsheh, Esam	MA05.05	1767	Garrido, Aitor	ME01.03	5	Guckert, Mark	TA10.02	1345
Enteshari, Ali	WE04.03	1065	Garrido, Aitor	TM10.04	1437	Gunawardena, Subodha	ME04.01	1931
Eswaran, Eswaran	TA01.04	465	Garrido, Izaskun	TM10.04	1437	Guo, Xin	TM05.01	623
Evans, Robin	WA09.03	1915	Garrido, Izaskun	ME01.03	5	Guo, Zhenhong	MM01.03	1255
Ezzouhairi, Abdellatif	WM05.05	583	Gavigan, Patrick	TM06.02	1309	Guo, Zhenhong	MM01.01	589
Fadaeinedjad, Rooollah	MM01.02	233	Gazor, Saeed	WA05.05	1483	Habib, Serag	WM08.01	775
Fakoorian, Ali	TE05.02	1245	Gazor, Saeed	TE04.05	1045	Habib, Serag	WE07.01	105
Fan, Yu-Cheng	WM09.05	493	Gazor, Saeed	MA03.02	1823	Haccoun, David	TM07.03	1659
Far, Behrouz Homayoun	WE06.01	1611	Gedik, Berna	ME04.04	615	Hafez, Roshdy	TE05.05	675
Far, Behrouz Homayoun	WA06.03	335	Georganas, Nicolas	WA08.03	1443	Hafiz, Khurshid	MM01.05	1587
Far, Behrouz Homayoun	WM07.03	1107	George, Vincent	WM02.05	681	Haghighi, Nima	TE09.03	1487
Farahani, Mahdih	TE02.05	43	Germain, Mario	WM02.03	669	Haghighi, Nima	ME09.02	1473
Fareed, Muhammad Mehboob	ME04.03	135	Geurkov, Vadim	WA07.05	1073	Haidar, Mohamad	MA04.01	1169
Farid, Talha	WM03.01	1729	Geurkov, Vadim	WA04.01	541	Hajian-Hoseinabadi, Hamze	WM01.05	535
Farzam, Masoud	WA08.01	837	Ghafari-Zadeh, Ebrahim	MA02.01	877	Hajian, Mahdi	WM01.05	535
Fattah, Shaikh Anowarul	ME06.01	1815	Chaisari, Jafar	WE01.05	757	Haji-Hassan, Mohamad	MA02.01	877
Fayek, Dalia	ME02.02	1759	Channouchi, Fadhel	ME09.03	1733	Hajjarian Kashani, Zeinab	TM04.01	2051
Fazel-Rezai, Reza	ME02.03	1407	Gharehpetian, G H	WE02.04	347	Hamam, Habib	WA06.02	279
Fazio, Peppino	MA04.05	1663	Ghariniyat, Azadeh	TA04.05	1641	Hamed, Karim	WA09.02	1035
Ferdaus, Syeda	TA01.01	913	Ghazel, Adel	TA06.04	601	Hamlyn, Alexander	MA01.01	1719
Ferens, Ken	WM05.01	1423	Ghimire, Rabindra	MA04.01	1169	Hamlyn, Alexander	MA01.05	1849
Fernando, Xavier	MA06.02	1513	Ghoroani, Behnaz	TA03.01	1207	Hamlyn, Alexander	MA01.02	1687
Fernando, Xavier	MA04.02	511	Gill, Eric	MM07.04	471	Hansen, Martin	TA08.03	659
Ferrando, Sebastian	MM06.02	1069	Gillard, Paul	WM08.02	881	Harati Nejad Torbati, Amir Hosein	TA04.02	805
Ferrando, Sebastian	MM03.04	1219	Glotin, Hervé	MA07.05	1531	Harmanani, Haidar	WA03.04	1397
Ferworn, Alexander	TM07.02	665	Goel, Ashok	WM04.01	189	Harn, Lein	TM05.05	325
Fikry, Wael	WE07.01	105	Goel, Nita	TA03.05	1087	Harron, Wilson	TM08.02	1503

IEEE – Canadian Conference on Electrical and Computer Engineering – 2008 Author Index

Author	Session	Page	Author	Session	Page	Author	Session	Page
Hashturdi Zad, Shahin	MM08.01	957	Inkol, Robert	MM07.01	1327	Khan, Mariam	WM02.02	607
Hashturdi-Zaad, Keyvan	WA10.02	1871	Inkol, Robert	ME06.05	1049	Khan, Muhammad	TA09.05	1925
Hashturdi-Zaad, Keyvan	TM03.04	1737	Islam, Jamin	WM08.04	1693	Khan, Sheroz	WA04.05	101
Haslett, James	TE09.01	1055	Islam, Jamin	WM08.03	1461	Khan, Shoab	MA03.03	797
Hassam, Fahim	WA09.01	1007	Islam, Md	WA04.05	101	Kharrati, Hamed	TE10.03	1467
Hassan, Mai	MM08.02	771	Jacoby, Grant	ME08.03	815	Khayatian, Ali Reza	WM10.04	1959
Hassanzadeh, Iraq	TA10.05	1991	Jacoby, Grant	ME03.04	1019	Khazali, Imad	MM04.04	579
Hassanzadeh, Iraq	TE10.03	1467	Jafari, Reza	TA03.03	1995	Khodja, Abdelhamid	WE09.02	239
He, Liangjie	WA07.04	245	Jafarian, Mohammad	TE01.05	1193	Khoshkoo, Hamid	WA02.03	1507
He, Xiaoqiong	WA01.02	1897	Jaffari, Zeshan	MM04.02	1357	Kiarashi, Nooshin	WA05.03	1293
Hegazy, Yasser	MM02.03	1203	Jamali, S. Hamidreza	WM06.03	627	Kim, Il-Min	MM05.03	843
Hegedus, Michael	ME08.01	119	Jamali, S. Hamidreza	WM06.04	641	Kim, Il-Min	MM05.02	223
Heidari, Amir	MM08.03	1113	James, Matthew	ME02.02	1759	Kim, Il-Min	MM05.01	61
Heidari, Parisa	TM06.01	261	Jatskevich, Juri	ME01.01	1655	Kinsner, Michael	TA08.01	1527
Hejazi, Nima	MA03.01	423	Jatskevich, Juri	TE02.02	999	Kinsner, Witold	WM05.01	1423
Henault, Simon	MM07.01	1327	Jatskevich, Juri	TM01.02	1743	Kinsner, Witold	ME02.03	1407
Hermann, David	ME07.01	551	Jeschke, Sabina	TE10.04	941	Kirischian, Lev	WM08.04	1693
Hesson, Ali	TM08.04	927	Jhunjunwala, Ashok	TA09.03	699	Kirischian, Valeri	WA04.01	541
Hilal, Allaa	ME03.03	1403	Jiang, Ju	WM10.05	361	Knipping, Lars	TE10.04	941
Ho Van, Khuong	MM05.04	991	Jin, Wei	TE06.02	1187	Ko, Seok-Bum	MA09.01	1223
Ho-Quang, Dzung	MA04.04	1801	Ju, MinChul	MM05.02	223	Ko, Seok-Bum	TE03.02	507
Hoang, Chien	WA09.03	1915	Ju, MinChul	MM05.01	61	Ko, Seok-Bum	ME02.01	1837
Hoefel, Roger	TA05.01	1877	Ju, MinChul	MM05.03	843	Kouki, Ammar	TA06.04	601
Holzman, Jonathan	WE08.02	377	Kabir, S. M. Humayun	WM06.05	199	Koushki, Behnam	WE01.05	757
Hossain, Shazzat	WA04.06	1353	Kalra, Sandeep	TA07.03	1097	Kowarzyk, Gilbert	TM07.03	1659
Hosseini, Seyed	MA01.04	365	Kamel, Nadjet	WA06.02	279	Krishnan, Sri	TE03.01	1247
Hosseini, Seyed Hossein	WE02.04	347	Kangavari, Mohammadreza	ME05.01	1601	Krishnan, Sri	TA03.01	1909
Houle, Alain	ME03.02	905	Kar, Narayan	WM02.02	607	Krishnan, Sri	WM03.01	1729
Houshang, Nasser	TM10.05	809	Kar, Narayan	MM01.05	1587	Krishnan, Sri	TE08.05	1373
Houshmand, Kaveh	TE03.04	1333	Kar, Narayan	WE02.03	1617	Kruchten, Philippe	WA06.05	693
Huang, Dongli	TM07.01	267	Karbasiou, Mohamad	MA05.01	1517	Kumar Mishra, Mahesh	WM02.05	681
Huang, Weimin	MM07.04	471	Karim, Karim	ME10.01	995	Kumar Mishra, Mahesh	WM02.04	1199
Huang, Xia	TM10.05	809	Karim, Karim S.	WM04.02	1279	Kumar, Amar	TA03.05	1087
Hung, Wing-Chung	ME05.05	1771	Karimi Chartemani, Masoud	TA03.03	1995	Kwasniewski, Tad	ME09.01	111
Hussain, Ibrahim	WE05.02	71	Karshenas, Hamid	WA02.04	1919	Laan, Brian	TM02.02	313
Hussain, Sattar	MA04.02	511	Karthikoyan, K.	WM02.04	1199	Lai, Henry	TA09.01	1449
Hussein, Ahmed	TA04.03	1831	Kavehrad, Mohsen	TM04.02	309	Lakhsasi, Ahmed	WE09.01	411
Hussein, Ali	TE08.02	1909	Kavehrad, Mohsen	TM04.01	2051	Lakhsasi, Ahmed	MA10.04	417
Hussein, Ali	TE08.05	1373	Kavehrad, Mohsen	WE04.03	1065	Lampe, Lutz	TM04.04	361
Huynh, Thuan	WA03.03	479	Kazemi, Jafar	WM05.02	1893	Lang, Pencilla	TA10.01	1373
Ibnkahla, Mohamed	MA03.05	1539	Kedjar, Bachir	TA02.05	1297	Lankarany, Milad	WE08.04	689
Ibnkahla, Mohamed	WA04.03	1535	Khademi, April	TE03.01	1949	Larabi, Slimane	TA01.05	155
Ibrahimy, Muhammad	MM10.05	23	Khademian, Behzad	WA10.02	1871	Law, Eddie	ME05.04	1683
Iftikhar, Aun	MA03.03	797	Khalilinia, Hamed	WE01.05	757	Law, Eddie	ME05.05	1771
Ikki, Salama	MM05.05	831	Khan, Gul	TA06.02	227	Law, Siong Fung	MM04.05	1413

IEEE – Canadian Conference on Electrical and Computer Engineering – 2008 Author Index

Author	Session	Page	Author	Session	Page	Author	Session	Page
Lawniczak, Anna	TE04.03	1779	MacLean, James	WM08.03	1461	Mehrandezh, Mehran	MM08.03	1113
Lawniczak, Anna	TE04.04	2021	Macnab, Chris	MM08.04	1233	Mei, Ye	WM09.02	1379
Lawrence, Ramon	TA07.02	387	Maharjan, Pramila	TA03.04	165	Mekhilef, Saad	TA02.04	1129
Le Moulec, Yannick	WE05.01	355	Mahdavi, Mehrdad	TA04.05	1641	Mendalek, Nassar	ME01.04	443
Le-Ngoc, Tho	MM05.04	991	Mahdad, Mehrdad	ME05.01	1601	Meng, Max	WA10.01	2041
Le-Ngoc, Tho	MA04.04	1801	Mahdizadeh, Amin	TA10.05	1991	Meng, Max	WA10.04	1963
Lee, Jing-Huei	ME02.05	1827	Mahmood, Hisham	TM02.03	273	Menhaj, Mohammad Bagher	MM08.05	517
Lee, Larix	WA06.05	693	Malthaner, Richard	MA02.03	1337	Miao, Chuxiong	WA03.02	1627
Lehn, Peter	WA02.01	891	Man, Ka Lok	TA09.02	211	Miguel, Juan	TM03.03	867
Lemieux, Guy	MM09.01	947	Mandalika, Srinivas	MA09.04	735	Mikulic, Predrag	WM04.03	1015
Li, Baopu	WA10.04	1963	Mani, Nariman	WE06.01	1611	Miled, Amine	MA02.02	1671
Li, Howard	TM10.03	923	Manjikian, Naraig	TE06.03	1227	Miles, Brandon	TE10.05	1369
Li, Howard	TE01.01	981	Manjikian, Naraig	TA06.05	1155	Miletic, Zoran	TA02.02	399
Li, Hua	TE06.02	1187	Manjikian, Naraig	TA06.03	1039	Milewski, Mariusz	WE02.02	1861
Li, Jianhua	MM10.02	931	Mann, George	TA01.01	913	Mills, James	MA08.04	1093
Li, Jing	WM01.02	439	Mansoor, Usman	MA03.03	797	Mirabbasi, Shahriar	MM09.01	947
Li, Qunzhan	WA01.02	1897	Mansour, Naima	WM01.03	1289	Mirzaee, Alireza	WE05.03	1251
Li, Sha	MM07.02	647	Mao, Meiqin	TM01.03	1175	Mirzaee, Hossein	WM01.04	713
Liang, Bangli	ME09.01	111	Mao, Meiqin	TE01.04	637	Moallem, Mehrdad	MM01.02	233
Liang, Jie	ME07.02	685	Mao, Meiqin	TE01.03	1867	Moghaddam Tabrizi, Mohammad	WE09.04	215
Liang, Jie	ME06.04	909	Maqbool, Qasim	MA03.03	797	Mohamad Kazemi, Farhad	MA06.05	1855
Liao, Zaiyi	WA04.06	1353	Marano, Salvatore	MA04.05	1663	Mohammad, Heba	TM06.04	1747
Liao, Zaiyi	TE08.03	1211	Marano, Salvatore	ME03.05	1667	Mohammadi, Abbas	ME09.03	1733
Liebhart, Marcus	TE10.04	941	Margulis, Arie	WE09.03	1635	Mohammadi, Arezou	WE04.02	1811
Liew, Soung Yue	MM04.01	1429	Margulis, Arie	MA10.02	1605	Mohammed, Jafar	WE08.05	123
Liew, Soung Yue	MM04.05	1413	Markowski, Malgorzata	WE02.04	1565	Moini, Rouzbeh	WA02.03	1507
Linder, Tamas	TE04.05	1045	Marsland, Ian	WA04.04	951	Moldovan, Emilia	ME10.04	305
Lio', Pietro	TE04.04	2021	Martin, Clemens	WE06.03	1843	Molo, Badji	TE07.01	251
Liu, Jianye	WM10.05	361	Marvi, Hossein	WE08.04	689	Molo, Badji	TE07.04	1785
Liu, Peter	WA10.01	2041	Maseda, Francisco	TM10.04	1437	Moloney, Cecilia	MM06.01	1313
Long, Chengnian	WA10.05	2045	Masonta, Moshe	ME03.01	453	Moloney, Cecilia	TM08.01	1323
Lotfi Neyestanak, Abbas Ali	TE09.04	767	Masoumi, Nasser	WE09.04	219	Moorthy, Theepan	TA08.04	1303
Lotfi Neyestanak, Abbas Ali	WE09.05	753	Masse, Stephane	WM03.01	1275	Moosavinia, Amir	TA04.02	805
Lotfi Neyestanak, Abbas Ali	WA09.05	739	Massicotte, Daniel	MA10.04	417	Moradi, Maryam	TM03.04	1737
Lotfi Neyestanak, Abbas Ali	WA08.05	1077	Masud, Shahid	TE06.01	433	Moradi, Saeed	TE04.05	1045
Louei-pour, Mehdi	TE10.02	207	Maundy, Brent	TE09.01	1055	Moradlou, Majid	WA02.04	1919
Love, Adam	ME02.04	1565	Mazhabjafari, Ali	WM01.04	713	Morin, Evelyn	TM03.04	1737
Lu, Shiliang	WA07.04	245	McCreery, Greig	MA02.03	1337	Morsi, Walid	MM02.01	65
Lu, Yan	MA06.01	1365	McDonald, Rob	TM09.02	1715	Morton, J.	ME02.04	1565
Luo, Xianjue	TM07.05	1883	McGowan, Joseph	TA03.02	1977	Moschopoulos, Gerry	TM02.02	313
Luu, Tin	TM01.05	1597	McIsaac, Kenneth	MA08.03	1025	Moschopoulos, Gerry	WE01.04	317
Luu, Tin	TM01.04	1591	Md Yasin, Faisal	MM10.05	23	Moschopoulos, Gerry	MM01.02	233
Ma, Nicholas	TA06.05	1155	Meghdadi, Amir	ME02.03	1407	Mosley, Shawn	ME03.04	1019
Müller, Fabian	TE10.04	941	Mehmud, Huma	TE08.02	1909	Motamedi, Norooz	WA09.04	1103
MacLean, James	WM08.04	1693	Mehrandezh, Mehran	ME08.01	119	Motamedi, Zohreh	TM05.02	115

IEEE – Canadian Conference on Electrical and Computer Engineering – 2008 Author Index

Author	Session	Page	Author	Session	Page	Author	Session	Page
Mouftah, Hussein	MM04.02	1357	O'Shaughnessy, Douglas	TM09.03	145	Rahaman, Md. Sajjad	MA10.03	1161
Mouftah, Hussein	WM05.04	569	OKOU, Francis	WE01.02	95	Rahati, Saëid	MA06.05	1855
Mouftah, Hussein	MM04.03	1553	Osman, Ahmed	WM01.03	1289	Rahman, Proton	MM03.01	595
Mountjoy, Katherine	TM03.04	1737	Ould Bachir, Tarek	MA10.01	1393	Rahman, Saifur	WE04.01	77
Mousavi, Abdolmajid	WM07.03	1107	Ozkop, Emre	MM04.04	1631	Rahnamayan, Shahryar	WA07.03	33
Moussavi, Zahra	TA03.04	165	Padole, Dinesh	MA10.05	1937	Raja, Gunasekaran	TM05.03	1955
Moussavi, Zahra	TM03.01	827	Palaniappan, Ramaswamy	TM03.05	485	Raja, Gunasekaran	TM05.04	1945
Movahedi pour, Hamed	MA03.04	1059	Palmer, Patrick	MM09.01	947	Rajabi Mashhadi, Habib	MA06.05	1855
Movassagh, Mahmood	WE08.03	83	Paranjape, Raman	ME08.01	119	Rajagopalan, Sudharsan	TM05.04	1945
Muegge, Steven	WA06.06	2011	Parsa, Vijay	TM09.02	1715	Rajan, Rajesh	TM05.03	1955
Mukkavilli, Ravi	WM03.04	887	Patel, Rajni	MA02.03	1337	Rajan, Sreeraman	ME06.05	1049
Muresan, Radu	MA09.02	2061	Patel, Vishal	MM09.02	1283	Rajan, Sreeraman	MM07.01	1327
Mustiere, Frederic	MA07.03	497	Patenaude, François	ME06.05	1049	Rajatheva, Nandana	ME04.01	931
Naas, Nabil	WM05.04	569	Pau, Ronny	TA06.03	1039	Rakai, Logan	MM10.02	931
Naderian Jahromi, Ali	TE02.05	43	Paull, Liam	TM10.03	923	Raman, Abhay	WA06.06	2011
Naggar, Raouf	WM02.03	669	Payandeh, Shahram	MA06.01	1365	Ramirez-Serrano, Alejandro	MM08.04	1233
Naghbzadeh, Mahmood	TA07.01	11	Pearce, Trevor	TM06.02	1309	Rana, Salah-ud-Din	WE02.03	1617
Nair, Krishnakumar	WM03.01	1729	Peco, Philip	ME08.05	2015	Rangayyan, Rangaraj	TE03.03	179
Naish, Michael	TA10.02	1345	Pedrycz, Adam	WM07.01	1417	Rangayyan, Rangaraj	TM03.02	57
Naish, Michael	MA02.03	1337	Pettinger, Calvin	TM08.02	1503	Rangayyan, Rangaraj	ME07.03	301
Nakamura, Osamu	WE03.03	1259	Pfeiffer, Olivier	TE10.04	941	Ranjbar, Gholam Abbas	TE02.05	43
Nam, Sang	TE02.01	141	Phan, Raymond	WM09.04	531	Rashdan, Mostafa	TE09.01	1055
Nanda, Gaurav	MM01.05	1587	Pierre, Samuel	WM05.05	583	Rashidzadeh, Rashid	MM09.04	321
Nanthakumar, Kumar	WM03.01	1729	Plataniotis, Konstantinos	WM09.03	611	Rasti Bonab, Jafar	TE10.03	1467
Narasimhan, Venkataraman	TA03.05	1087	Plataniotis, Konstantinos	TM08.03	1549	Raut, Rabindranath	MM09.02	1283
Narimani, Mehdi	TE10.02	207	Popescu, Ana	WM02.03	669	Ravan, Maryam	ME06.02	1183
Nasiri, Adel	TM01.05	1597	Portalski, Maciej	WE05.01	355	Ray, Rose	TA03.02	1977
Nasiri, Adel	TM01.04	1591	Pourhaj, Peyman	TE06.05	2033	Reaz, Mamun	MM10.05	23
Natarajan, Krishnamoorthy	TM02.03	273	Priyadarsini, Sujitha	TM05.04	1945	Ren, Jiawei	MM09.03	2057
Navai, Keivan	WM05.02	1893	Prytula, Richard	WE09.01	411	Rezaee, Leila	WE07.04	1651
Nayak, Amiya	TA03.05	1087	Purwanto, Dedy	WM02.06	1941	Riahi, Reza	WM01.04	713
Nayak, Amiya	MA05.04	1791	Qu, Jian	WA03.02	1627	Riediger, Michael	TM04.04	1361
Nedjah, Ouarda	TE08.05	1373	Quarto, Alessandro	WE04.04	729	Riess, Brian	ME08.02	761
Negra, Renato	ME09.03	1733	Quintero, Alejandro	WM05.05	583	Ro, Yong Man	WM09.03	611
Nicol, Chris	MM08.04	1233	Raahemi, Bijan	WA07.02	719	Rodriguez, José	TM03.03	867
Nokleby, Scott	MA08.01	781	Raahemifar, Kaamran	TE08.05	1373	Romlie, Mohd Fakhizan	WM02.06	1941
Nokleby, Scott	ME08.02	761	Raahemifar, Kaamran	ME09.02	1473	Rouhani, Modjtaba	MM08.05	517
Norman, Richard	WE09.01	411	Raahemifar, Kaamran	TE09.03	1487	Rowlands, John	ME10.01	995
Norouziyan, ATTA	MA07.04	1705	Raahemifar, Kaamran	WA08.01	837	Rzeszutek, Richard	WA08.02	987
Norvell, Theodore	TE06.04	1723	Raahemifar, Kaamran	MA06.04	1003	S, Kaarthikoyan	TM05.03	1955
Nowicki, Ed	WE01.03	2003	Raahemifar, Kaamran	MM10.04	1981	Sabahi, Mehran	WE02.04	347
Nowicki, Ed	WE01.01	1999	Radic, Aleksandar	TA02.02	399	Sabihuddin, Siraj	WM08.03	1461
O'Shaughnessy, Douglas	MA07.04	1705	Rafati, Amirhossein	WA05.05	1483	Sadeghi, Seyyed Hossein Hesamedin	WA02.03	1507
O'Shaughnessy, Douglas	MA07.01	631	Rafi, Gholamreza	WM06.04	641	Sadek, Tarek	WM04.04	1117
O'Shaughnessy, Douglas	TM09.01	1523	Rahaman, Md. Sajjad	WM05.03	1179	Safari, Majid	TM04.03	1239

IEEE – Canadian Conference on Electrical and Computer Engineering – 2008 Author Index

Author	Session	Page	Author	Session	Page	Author	Session	Page
Safarkhani, Banafsheh	ME05.01	1601	Sharaf, Adel	MM01.04	1631	Surgenor, Brian	TE10.05	1369
Safavi-Naeini, Safieddin	WM06.03	627	Sharieh, Salah	TM07.02	665	Szturm, Tony	TA03.04	165
Safavi-Naeini, Safieddin	WM06.04	641	Sharifi, Farid	TA10.04	1457	T. Haghighat, Abolfazl	TA04.05	1641
Saghaian Nejad, Mortaza	WE01.05	757	Shawkey, Heba	WE07.03	901	Ta, Chien	WA09.03	1915
Sahambi, Jyotindra	WM03.04	887	Shayegh, Farnaz	WM06.01	821	Taalab, Abdel-Maksoud	WM01.03	1289
Sahoo, Ajit	TE08.04	1751	Shehata, Raef	TM10.02	653	Tabatabaei, Mohammad	WM01.04	713
Sai, Hideyasu	WE03.03	1259	Sheikh, Faheem	TE06.01	433	Tadj, Chakib	WA06.04	565
Sakani, Katsuhiko	WE03.03	1259	Sheikhaei, Samad	MM09.01	947	Taghibakhsh, Farhad	WM04.02	1279
Sala, Joseph	TA03.02	1977	Shi, Yang	ME02.01	1837	Taheri, Hassan	TE05.02	1245
SALAM, Fraihat	MA07.05	1531	Shkolnikov, Yakov	TA03.02	1977	Taji, Bahar	MA05.01	1517
Saleem, Syed Muhammad Atif	WE02.01	871	Sidi Yakoub, Mohammed	TM09.01	1523	Takaya, Kunio	WA03.01	369
Samarawickrama, Upul	ME07.02	685	Sikdar, Swapan	WM07.04	743	Tan, Andrew	MM04.01	1429
Samavi, Shadrokh	MM06.05	331	Singh, Gurpal	TA07.03	1097	Tan, Chun Chet	TA01.04	465
Samuel, Benix	TA09.03	699	Sinjari, Ahmad	ME10.03	1121	Tasadduq, Imran	WE05.02	71
Sang-Joon, Lee	MM10.04	1981	Sirois, Frederic	WM02.03	669	Tatu, Serioja Ovidiu	ME10.04	305
Sato, Mie	WA08.04	339	Skafidas, Elfratios	WA09.03	1915	Tedjini, Smail	ME09.04	1273
Sattari, Paria	MA03.01	423	Smecher, Graeme	ME06.03	193	Teng, Daniel	TE03.02	507
Savaria, Yvon	WE09.01	411	So, Sunny	ME05.04	1683	Teng, Daniel	TE06.05	2033
Savaria, Yvon	TM07.03	1659	Sobot, Robert	ME02.04	1565	Teng, Daniel	MA09.01	1223
Sawan, Mohamad	MA10.01	1393	Sohi, Balwinder	TA07.03	1097	Thambu, Kuganeswaran	MA06.02	1513
Sawan, Mohamad	MA02.02	1671	Sokolovsky, Alexander	ME10.05	969	Tolba, Hesham	MA07.04	1705
Schmidt, Erich	WM02.01	169	Soleymani, M. Reza	TM05.02	115	Toplak, Werner	WA07.01	703
Schober, Robert	TM04.04	1361	Soleymani, M. Reza	WM06.01	821	Toronov, Vladislav	TM07.02	665
Schuurman, Derek	TA08.02	1341	Soliman, Mostafa	WM10.01	203	Touhami, Rachida	ME09.04	1273
Seward, Leanne	MA05.04	1791	Soltanian-Zadeh, Hamid	WM03.03	1755	Touhami, Rachida	WE09.02	239
Seadghat, Reza	WA07.05	1073	Sonar, Ajay	WM03.02	1317	Trejos, Ana Luisa	MA02.03	1337
Seethaler, Rudolf	WE08.02	377	Song, Hyoung-Kyu	MM05.01	61	Tropea, Mauro	TA05.04	1675
Sejdic, Ervin	ME02.04	1565	Song, Hyoung-Kyu	MM05.03	843	Tsai, Meng-Ying	WA05.02	1679
Selouani, Sid-Ahmed	TM09.01	1523	Song, Jungde	TA05.05	1349	Tuhin, Mohammed	TE06.04	1723
Selouani, Sid-Ahmed	MA07.01	631	Song, Mei	TA05.05	1349	Uddin, Mohammad	TE02.01	141
Selouani, Sid-Ahmed	MA07.04	1705	Soraya, Mojgan	TE07.02	1387	Uddin, Mohammad	MM03.01	595
Selouani, Sid-Ahmed	WA06.02	279	SoroushMehr, Sayed Mohammad Reza	MM06.05	331	Ul Haq, Ihsan	TA09.05	1925
Selvakumar, C. R.	WE07.04	1651	Souissi, Mohamed	WA06.04	601	Umapathy, Karthikeyan	WM03.01	1729
Sen Gupta, Gourab	TA01.03	963	Spence, Allan	TA08.01	1527	Umapathy, Yamini	TM05.04	1945
Serbinski, Adam	TE07.03	1491	Sridharan, Aravind	TM05.03	1955	Uthairaraj, Rhymend	TM05.04	1945
Sevptsidis, Elias	WM03.01	1729	Sridharan, Srikanthan	WM02.05	681	Uthairaraj, Rhymend	TM05.03	1955
Seyfi, Mehdi	MA03.02	1823	Srivastava, Alka	TA03.05	1087	Uysal, Murat	ME04.03	135
Sghaier, Ahmad	WA04.02	801	Stepanov, Sandy	TE04.01	523	Uysal, Murat	ME04.04	615
Shabani, Arghavan	MA02.01	877	Stevenson, Maryhelen	TM09.05	459	Uysal, Murat	TM04.03	1239
Shahnaz, Celia	MA07.02	1819	Sturge, Mitch	MM03.01	595	Vahedi, Haleh	MA09.02	2061
Shaker, Matineh	WM03.03	1755	Su, JianHui	TE01.03	1867	Vakili, Ahmad	TA10.03	897
Shang, Wei	TM09.05	459	Su, JianHui	TM01.03	1175	van der Wulp, Jeroen	TA09.02	211
Shao, Riming	TE01.02	619	Sudharsanan, Subramania	TA06.05	1155	Vardy, Andrew	TA01.01	913
Shao, Riming	TM01.01	405	Suleman, Muhammad	TA09.05	1925	Vardy, Andrew	ME08.04	1581
Sharaf, Adel	WE02.01	871	Sultana, Afrin	ME10.01	995	Veeramachaneni, Sreehari	MA09.04	735

IEEE – Canadian Conference on Electrical and Computer Engineering – 2008 Author Index

Author	Session	Page	Author	Session	Page	Author	Session	Page
Veltri, Fiore	ME03.05	1667	Wu, Ran	TE08.03	1211	Zaruba, Gergely	TE04.02	89
Venetsanopoulos, Anastasios	TE04.01	523	Wu, Yunfeng	TM03.02	57	Zeineeldin, Hatem	MA01.03	289
Venkatesan, Ramachandran	WM08.02	881	Xiao, Deyun	WA10.03	475	Zeng, Qingrong	TM01.01	405
Venkatesh, B	MM02.04	1151	Xie, Shengkun	TE04.04	2021	Zhang, Chang-Nian	TE06.02	1187
Venkatesh, B	WA01.01	1135	Xie, Shengkun	TE04.03	1779	Zhang, Jun	TM05.01	623
Vickers, Richard	MM04.04	579	Xu, Haiyan	WM10.05	361	Zhang, Lihong	MM10.01	547
Vilanova, Ramon	WM10.03	1775	Xu, Shanwei	WA06.01	219	Zhang, Shenqiu	MM06.01	1313
Vilanova, Ramon	WM10.02	725	Xue, Yaosuo	MM02.04	1151	Zhang, Shenqiu	TM08.01	1323
Vitkin, I. Alex	TA03.03	1995	Xue, Yaosuo	WA01.01	1135	Zhang, Tao	TM05.01	623
Vollmer, Ursula	TE10.04	941	Yadollahi, Azadeh	TM03.01	827	Zhang, Yongheng	TM10.05	809
Vorobyov, Sergiy	TE05.01	257	Yaduvanshi, Chandrashekhar	TA03.04	165	Zhang, Yonghong	WA03.02	1627
Wahid, Khan	TE03.02	507	Yagoub, Mustapha	ME09.04	1273	Zhang, Yonghong	TE08.01	1797
Wahid, Khan	MA09.01	1223	Yagoub, Mustapha	TM06.04	1747	Zhao, Jiying	MA06.03	1987
Walsh, John	MM07.04	471	Yagoub, Mustapha	WE09.02	239	Zhao, Lian	TE08.03	1211
Wang, Bo	ME09.01	111	Yahya, Khawaja M.	TA09.05	1925	Zhao, Lian	MA06.04	1003
Wang, Guolin	WA10.03	475	Yan, Xin	TE10.04	941	Zhao, Lian	WA04.06	1353
Wang, Jing	ME06.04	909	Yang, Chunling	WM01.02	439	Zhao, Xufang	TM09.03	145
Wang, Li	MA05.02	351	Yang, Cungang	MA01.02	1687	Zheng, Jun	MM04.02	1357
Wang, Li	TM06.03	709	Yang, Cungang	MA01.01	1719	Zhengwu, Y.	TM07.01	267
Wang, Lidai	MA08.04	1093	Yang, Cungang	WM01.01	1709	Zhong, Cheng	WA06.03	335
Wang, Lin	MA01.05	1849	Yang, Cungang	MA01.05	1849	Zhong, Fang	TA08.02	1341
Wang, Lin	WM01.01	1709	Yang, Xue Dong	MM06.03	37	Zhou, Tong	TM05.05	325
Wang, Liwei	ME01.01	1655	Yang, Zilan	WA06.03	335	Zhu, Li-ping	WE05.04	1125
Wang, Liwei	TE02.02	999	Yao, Lei	MA02.01	877	Zhu, Wei-Ping	ME06.01	1815
Wang, Sichun	ME06.05	1049	Yarali, Abdulrahman	WE04.01	77	Zhu, Wei-Ping	MA07.02	1819
Wang, Sichun	MM07.01	1327	Yarali, Abdulrahman	TA05.02	47	Zitao, Wang	ME01.02	575
Wang, Xiaodong	WA03.02	1627	Yazdanpanah, Ali	WE02.04	347	Zitao, Wang	TA02.01	787
Wang, Xiaodong	TE08.01	1797	Ye, Andy	TA08.04	1303	Zourob, Mohammed	MA02.01	877
Wang, Xiaoli	TM07.05	1883	Ye, Yongqiang	WA10.01	2041	Zuo, Ming	TE08.04	1751
Wang, Xin	ME02.05	1827	Yi, Zhihang	MM05.03	843	Zuo, Ming	TE08.01	1797
Wang, Yu	WA03.02	1627	Yoon, Giwan	WM06.05	199	Zuo, Ming	WA03.02	1627
Wang, Yu	TE08.01	1797	You, Shanhong	TM04.02	309			
Wang, Yuhong	WA01.02	1897	Yousefi, Shahram	WA05.02	1679			
Watabe, Daishi	WE03.03	1259	Yousefi, Shahram	WA05.03	1293			
Waxer, Matthew	ME02.04	1565	Yousif, Abdel Fattah	TE09.01	1055			
Wei, Yifei	TA05.05	1349	Youssef, Mohamed	TE05.04	53			
Wen, Cao	WA01.02	1897	Yu, Donghun	WA05.01	1081			
Westergaard, Paul	WM03.01	1729	Yu, Ze	MA08.05	975			
Wilke, Marc	TE10.04	941	Zadvornov, Sergey	ME10.05	969			
Wolinski, Tomasz	WM04.03	1015	Zafar, Irfan	TM08.05	1967			
Wong, Alexander	WM09.01	2027	Zakeri, Vahid	WM10.04	1959			
Wong, Alexander	TA08.03	659	Zaki, George	MM08.02	771			
Woo, Lily	WM05.01	1423	Zamani, Masood	TE07.02	1387			
Wu, Fang-Xiang	MM03.03	393	Zarifi, Mohammad	MA02.04	1265			
Wu, Ke	ME10.04	305	Zarifi, Mohammad	MA02.05	1269			

