2008 IEEE Region 5: P-BASICS² Technical, Professional & Student Conference

Conference Opening Ceremony
Friday, April 18, 2008
8:30 a.m. – 10:00 a.m.
Rooftop Ballroom, Intercontinental Hotel at Plaza, Kansas City

Ghulam M Chaudhry, Conference Chair, Welcome
Gail Hackett, Provost and Vice-Chancellor for Academic Affairs, UMKC
Walter Rychlewski, Interim Dean, School of Computing & Engineering, UMKC
David Pierce, Director, IEEE Region 5
John Fessler, Chair, IEEE-KC Section

Guest Speaker: Fahim Siddiqui
Executive Vice President in-Charge of Product
Management, Development and Operations at IntraLinks, Inc.
Topic: Software as a Service: Confluence of Enterprise Software and Telecommunications

Coffee Break at Pavilion Prefunction

Technical Program (Friday, April 18, 2008)

Paper #	Paper Title	Authors	Time	Room	Session	Session Chair
P-1	*Optimization of Construction of Linear Switched Reluctance Motor with Transverse Magnetic Flux*	Xinglong Li; Ernest Mendrela	10:30 a.m. - 12:00 p.m.	Pavilion II	Power I	Prof. Kevin Kirkpatrick, CSEE, University of Missouri-Kansas City
P-2	*Modeling of Unshielded Suspended and Inverted Substrate Microstrip Lines*	Sarhan Musa; Matthew Sadiku				
P-3	*Robust H∞ Control Design Using μ-Synthesis for a Boiler-Turbine Unit*	Mahdi Salehi; Ali Akbar Afzalian				
P-4	*Electromagnetic Radiation Study of Commercial Cellular Phones with a TEM Cell for Biological Applications*	Nattaphong Boriraksantikul; Phumin Kirawanich; Naz Islam	10:30 a.m. - 12:00 p.m.	Pavilion I	Biotechnology I	Prof. Reza Derakhshani, CSEE, University of Missouri-Kansas City
P-5	*Enhancing Brain by Transforming Human to Transhuman : Vision & Possibilities*	Jivika Govil				
P-6	*Modelling The Cellular Level of Natural Sensing With The Functional Basis For The Design of Biomimetic Sensor Technology*	Jacquelyn Stroble; Steve Watkins; Robert Stone; Daniel McAdams; Li Shu				
P-7	*A Neural Network Demand Prediction Scheme for Resource Allocation in Cellular Wireless Systems*	Piyush Sandhir; Kenneth Mitchell	10:30 a.m. - 12:00 p.m.	Pavilion V	Systems & Networking I	Prof. Kenneth Mitchell, CSEE, University of Missouri-Kansas City
P-8	*Light Weight Anti-Phishing with User Whitelisting in a Web Browser*	Yue Wang, Baek-Young Choi				
P-9	*Signal Strength Analysis for Optimal Routing in Wireless Sensor Networks*	Lucas Vespa; Keqian Mei; Rapeepan Maitree; Ning Weng				
P-10	*Performance of a Quaternary Logic Design*	Mahsa Dornajafi; Steve Watkins; Benjanmin Cooper; Michael Bales	10:30 a.m. - 12:00 p.m.	Pavilion III	Computer & VLSI I	Prof. Waleed Al-Assadi, ECE, Missouri University of Science and Technology
P-11	*Modeling Substrate Noise Effects in Dynamic CMOS Circuits*	Waleed Al-Assadi; Sasikiran Burugapalli				
P-12	*Impact of Self-Heating on Frequency Response of Current Mirrors in Bipolar Technology*	Kamal Sinha; Ronald Carter; Howard Russell Jr.; Wendell Davis				
	Box Lunch at Pavilion Prefunction & Speaker Prof. James. E. Stine, Oklahoma State University, "45 nm System on Chip Design"					
P-13	*Designing of Shielded Two Coupled Striplines with Finite Element Method*	Sarhan Musa; Matthew Sadiku	1:00 p.m. - 2:30 p.m.	Pavilion II	Power II	Prof. Edward Ronan, CSEE, University of Missouri-Kansas City
P-14	*Computation of Capacitance of Shielded and Coupled Transmission Lines*	Sarhan Musa; Matthew Sadiku				
P-15	*Quantifying Prosthesis Control Improvements Using a Vibrotactile Representation of Grip Force*	Pravin Chaubey; Aniruddha Chatterjee; Jay Martin; Nitish Thakor				

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Paper #	Paper Title	Authors	Time	Room	Session	Session Chair
	Technical Program (Friday, April 18, 2008)…Continue					
P-16	*A Brief Intruduction of Feature Matching*	Dianchao Liu	1:00 p.m. - 2:30 p.m.	Pavilion I	Informatics	Prof. Yugyung Lee, CSEE, University of Missouri-Kansas City
P-17	*Genetic Programming Lab (GPLab) Tool Set, Version 3.0*	Edward William; James Northern				
P-18	*Automatic Fluorescent Dot Counting In Interphase cell Nuclei Using Basis Pursuit Image Analysis*	Zhenfei Tai; Samuel Cheng				
P-19	*UAV Autopilot Integration and Testing*	David Erdos; Steve Watkins	1:00 p.m. - 2:30 p.m.	Pavilion V	Avionics	Prof. Cecil Stuerke, EET, Devry University
P-20	*A novel expanded 16-dimensional Q2PSK constellation*	Milton Quinteros; Kenneth Cartwright; Edit Kaminsky Bourgeois; Ricardo Gallegos				
P-21	*Improving the Bandwidth of U-slot Microstrip Antenna Using a New Technique (Trough-Slot Patch)*	Mahmoud Mahmoud				
P-22	*Thermal Effects in Current Feedback Operational Amplifiers in Bipolar Technology*	Kamal Sinha; Xuesong Xie; Ronald Carter; Wendell Davis; Howard Russell Jr.	1:00 p.m. - 2:30 p.m.	Pavilion III	Computer & VLSI II	Prof. W. Daniel Leon-Salas, CSEE, University of Missouri-Kansas City
P-23	*Design of Sinusoidal, Triangular, and Square wave Generator Using Current Feedback Operational Amplifier (CFOA)*	AKM Haque; Md Hossain; Wendell Davis; Howard Russell Jr.; Ronald Carter				
P-24	*A Fundamentally Secure Payment Device Interfaced to Regular PCs*	Abdelhafid Bouhraoua; Metub Al-Shammari				
	Coffee Break at Pavilion Prefunction					
P-25	*Bluetooth Clock Recovery and Hop Sequence Synchronization Using Software Defined Radios*	Ahmad Tabassam; Stefan Heiss	3:00 p.m. - 5:00 p.m.	Pavilion II	Software & Modeling	Prof. Waleed Al-Assadi, ECE, Missouri University of Science and Technology
P-26	*A General Evaluation Criteria for Web Applications Maintainability Models*	Emad Ghosheh				
P-27	*A Fast and Efficient Frequency-Domain Method for Convolutive Blind Source Separation*	Peng Xie; Steven Grant				
P-28	*Automated Battery Tester Data Acquisition System Using LabVIEW*	Marcus Lockhart; Latatiana Clabon; Christopher Lott; Miktosha James; James Northern; Warsame Ali				
P-29	*Design of a Configurable ATR System Using Matlab*	Eric Wright; James Northern	3:00 p.m. - 5:00 p.m.	Pavilion I	Computer & VLSI III	Prof. Deb Chatterjee, CSEE, University of Missouri-Kansas City
P-30	*Enclosed Layout Transistor with Active Region Cutout*	Shuza Binzaid; John Attia				
P-31	*FPGA Implementation of an 8-bit Simple Processor*	Eric Ayeh; Yasuhiro Morita; Kodzo Agbedanu; Oluwayomi Adamo; Parthasarathy Guturu				
P-32	*Numerical Computation of the Radiated Fields from a Thin Wire Dipole*	Shaun Walker				
P-33	*Robustness of Distance Relay with Mho Characteristic against Inter Phase Faults Resistance*	Hossein Shateri; Sadegh Jamali	3:00 p.m. - 5:00 p.m.	Pavilion V	Power III	Prof. Kevin Kirkpatrick, CSEE, University of Missouri-Kansas City
P-34	*Voltage Inversion due to TCSC Presence on Second Circuit of Double Circuit Line and Distance Relay Mal-Operation Considering MOV Operation*	Sadegh Jamali; Ahad Kazemi; Hossein Shateri				
P-35	*Distance Relay Mal-Operation due to Presence of SSSC on Adjacent Lines in Inter Phase Faults*	Ahad Kazemi; Sadegh Jamali; Hossein Shateri				
P-36	*On-Site Wind Energy Measurement and Preliminary Transmission Assessment: Case Studies in Wyoming*	Kala Meah; A. H. M. Sadrul Ula				
P-37	*Characterizing Power and Resource Consumption of Encryption/Decryption in Portable Devices*	Benfano Soewito; Lucas Vespa; Ning Weng	3:00 p.m. - 5:00 p.m.	Pavilion III	Security	Prof. Omar Elkeelany, ECE, Tennessee Tech. University
P-38	*Secured Hardware Design – An Overview*	Waleed Al-Assadi; Sasikiran Burugapalli				
P-39	*High Performance Fast Multiplier*	Ghulam Chaudhry; Fekri Kharbash				
P-40	*Verification of Dynamic Separation of Duty Policy for Role-based Business Processes*	Aashay Thipse				
P-41	*Effect of Loop-Unrolling in Hardware Reconfigurable Implementations of RC5-192 Encryption Algorithm*	Omar Elkeelany; Suman Nimmagadda				
	Conference Welcome Reception		**6:00 p.m - 8:00 p.m**	**Rooftop Ballroom**		

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Paper #	Paper Title	Authors	Time	Room	Session	Session Chair
Technical Program (Saturday, April 19, 2008)

Paper #	Paper Title	Authors	Time	Room	Session	Session Chair
P-42	*Fast Template Matching System Using VHDL*	Richard Tate; James Northern	9:00 a.m. - 10:00 a.m. Coffee Break 10:15 a.m. - 11:30 a.m.	Pavilion II	Systems & Networking II	Prof. Driss Benhaddou, EE, University of Houston
P-43	*Pre-processing for Improved Query Routing in Super-peer P2P Systems*	Rozlina Mohamed; Christopher Buckingham				
P-44	*Demonstration of Principal Component Analysis on TI-86*	Cecil Stuerke				
P-45	*Design And Implementation Of Ground Penetration Radar System Using Coded Sequences And Improved Target Detection Using Golay Codes*	Habeeb Ur Rahman Mohammed				
P-46	*Design and Analysis of an Improved Translinear Floating Resistor for a Variable Gain Amplifier*	Suman Chakrabarty Bhola; Howard T. Russell Jr.; Ronald L. Carter; W. Alan Davis; AKM S Haque				
P-47	*A Comparative Study of Linear and Nonlinear Data-Driven Surrogate Models of Human Joints*	Jesse Sherwood; Reza Derakhshani	9:00 a.m. - 10:00 a.m. Coffee Break 10:15 a.m. - 11:30 a.m.	Pavilion V	Biotechnology II	Prof. Appie Van de Liefvoort, CSEE, University of Missouri-Kansas City
P-48	*Remote Healthcare Monitoring System Architecture using Sensor Networks*	Driss Benhaddou; Manikanden Balakrishnan; Xiaojing Yuan				
P-49	*Classification of Imagined Motor Tasks for Brain-Computer-Interface*	Plamen Doynov; Jesse Sherwood; Reza Derakhshani				
P-50	*Low Resolution Technique for Fast Identification of Carotid Artery in Computed Tomography*	Cecil Stuerke				
P-51	*An Insight into Swarm Intelligence for adapting to Business and Technology*	Jivika Govil				
P-52	*Testing of Asynchronous NULL Conventional Logic (NCL) Circuits*	Waleed Al-Assadi	9:00 a.m. - 10:00 a.m. Coffee Break 10:15 a.m. - 11:30 a.m.	Pavilion VI	Computer & VLSI IV	Prof. Steve Watkins, ECE, Missouri University of Science and Technology
P-53	*Design and FPGA Prototyping of a Flood Prediction System*	Waleed Al-Assadi; Sahra Sedigh				
P-54	*Design of FPGA Configuration Logic Block Utilizing Asynchronous Static Null Conventional Logic (NCL)*	Waleed Al-Assadi; Scott Smith; Indira Dugganapally				
P-55	*Design of VBE Referenced Bootstrap Current Source, Sensitivity, and Self-Heating Effect*	Md Hossain; Wendell Davis; Howard Russell Jr.; Ronald Carter				
P-56	*Design of FPGA Configuration Logic Block Using Asynchronous Semi-Static Null Convention Logic (NCL) Circuits*	Waleed Al-Assadi; Scott Smith; Vijay Pillai				
Conference Plated Lunch at Rooftop Ballroom & Speaker Prof. Donald Wuensch, Missouri University of Science & Technology , "Clustering"
**Conference Award Banquet**	**6:00 p.m - 9:00 p.m**	**Ballroom**		