Technical Program Sessions

Friday, May 18, 2007

Session 1.1  Electromagnetics and Photonics
10:00AM – Noon  Chicago A

Session Chair:  Dr. Wei Li  Co-chair:  Dr. Suresh Borkar

Photon Barrier and Photon Tunneling in Optical Waveguide Structure
Wei Li, S. M. Sadeghi and Gen-Xiang Chen
University of Wisconsin-Platteville

Equivalent Circuit Validation for a Prototype Flux Concentrator for ILC Positron Matching
Thomas Wong, Haitao Wang, Wanming Liu and Wei Gai
Illinois Institute of Technology and Argonne National Laboratory

Noise Separation in Analog Integrated Circuits Using Blind Source Separation
Jingye Xu, Abinash Roy and Masud H. Chowdhury
University of Illinois at Chicago

Complex Excitation Antenna Array Synthesis Using Fuzzy Genetic Algorithms
Boufeldja Kadri and F.T. Bendimered
University Center of Bechar, Algeria

Utilizing Interdiffusion Property between AU/III-V Interfaces to Grow Gallium Oxide Nanowire via Simple Physical Evaporation
Chun-I Wu and Timothy P. Hogan
Michigan State University

A Study of the Radiation Pattern of a GPS Antenna on Several Vehicle Platmorms
Mazen Alsliety and Daniel Aloi
Oakland University

Session 1.2  Biomedical Applications and Telemedicine
10:00AM – Noon  Chicago B

Session Chair : Dr. David Anderson  Co-chair:  Dr. Guillermo Atkin
Demonstration of Neural Networks of Co-Regular Genes for Escherichia Coli
Amir Talaei-Khoei and Omid Shahmirzadi
Royal Institute of Technology (KTH), Sweden

FPGA Based Visual Prosthesis Device for Testing Visual Perception on Non Human Primates
N.R. Srivastava, P. R. Troyk and D. Bradley
Illinois Institute of Technology

User Authentication by Secured Graphical Password Implementation
Debnath Bhattacharyya, Poulami Das and Samir Kumar Bandyopadhyay
Heritage Institute of Technology and University of Calcutta, India

AN ANALYSIS SYSTEM FOR DNA GEL ELECTROPHORESIS IMAGES BASED ON AUTOMATIC THRESHOLDING AND ENHANCEMENT
Naima Kaabouch, Richard R. Schultz and Barry Milavetz
University of North Dakota

A PDA-based ambulatory urodynamics monitoring system for measuring the abdominal pressure using surface electromyography
Chul-Gyu Song, Keo-Sik Kim, Yang Soo An, Jong-Chan Kim, Beom-Woo Nam, Eun-Seok Kim and Jeong-Hwan Seo
Chonbuk Natl. Univ., KOREA

Data Acquisition Unit for an Implantable Multi-Channel Optical Glucose Sensor
Kiran S. Kanukurthy, Mathew B. Cover and David R. Andersen
University of Iowa

Session 1.3    Wireless Communications
10:00AM – Noon    Chicago C

Session Chair: Dr. Joseph LoCicero    Co-chair: Dr. Narayan Debnath

On Minimizing the Peak-to-Average Power Ratio of Multi-carrier Signals Using Simulated Annealing
Tao Jiang, Weidong Xiang, Paul C. Richardson and Guangxi Zhu
University of Michigan

Transient Response Study of 16-QAM with Nonlinear Amplifier Arrays
Ghaith M. Assaf and Joseph L. LoCicero
Illinois Institute of Technology
Interference Temperature Limits of IEEE 802.11 Protocol Radio Channels
John T. MacDonald and Donald R. Ucci
Illinois Institute of Technology

Bandwidth Efficient Coded Modulation
Saleh Faruque and Matthew J. Mueller
University of North Dakota

Erasure Pattern Selection with Active Constellation Extension for Peak-to-Average Power Ratio reduction in OFDM
Francesco Longo, Rashid Ansari, Yingwei Yao and Fabrizio Sellone
Politecnico di Torino, Italy and University of Illinois at Chicago

Digital Phase Modulation Using Polynomial Phase Functions
Rahul Sinha, Guillermo. E. Atkin and Chi Zhou
Illinois Institute of Technology

Session 2.1  Circuits and Electronics
1:30PM – 3:30PM                                                        Chicago A

Session Chair:  Dr. Masud Chowdhury          Co-chair: Dr. Ibrahim M. Abdel-Motaleb

Joule Heating and Phonon Transport in Nanoscale Silicon MOSFETs
ZLATAN AKSAMUJA and UMBERTO RAVAIOLI
University of Illinois at Urbana/Champaign

A Decoupling Technique on Switch Factor Based Analysis of RLC Interconnects
Po-Hao Chang and Jia-Ming Chen
National Dong Hwa University, Taiwan

Chaotic and hyperchaotic dynamics in Chua's circuits: the Adomian decomposition approach
D. Cafagna and G. Grassi
Università del Salento, Italy

Better Leakage Reduction by Exploiting the Built-in MOSFET-Vth Characteristics
Pervez Khaled, Jingye Xu, and Masud H. Chowdhury
University of Illinois at Chicago

Inductance Aware Performance and Reliability Analysis of High Performance Integrated Circuits
Abinash Roy, Jingye Xu and Masud H. Chowdhury,
University of Illinois at Chicago
Partial Local Biasing, a New Method to Modify/Tune Amplifiers for a Desirable Performance
Reza Hashemian
Northern Illinois University

Session 2.2  Signal and Image Processing
1:30PM – 3:30PM                                                                          Chicago B
Session Chair:  Dr. Hao Ying                                        Co-chair:  Dr. Tricha Anjali

A Lossless Coding Scheme for Images Using Cross-Point Regions for Modeling
Tin T. Dang, Thanh D. Vu and Aaron Becker
University of Technology, Vietnam and University of Illinois at Urbana/Champaign

An Efficient Algorithm to Improve Real-Time Video Resolution with VLSI Implementation
Robert G. Xue, Qing Xu and Ge Chen
Siliconwave Technology and Beijing Union University

Robust Edge and Corner Detection Using Stochastic Gradient and Adaptive Thresholding Techniques
Yixin Chen and Manohar Das
Delphi Corporation and Oakland University

Separating Contours from Texture Edges in Natural Images
Chengho Hsin, Shih-Chang Chen, Yi-Ku Lin and Shaw-Jyh Shin
Feng Chia University, Taiwan

An Image Segmentation Algorithm for the Detection of Rebar in Bridge Decks from GPR Scans
Vincent Krause, Ikhlas Abdel-Qader, Osama Abudayyeh and Sherif Yehia
Western Michigan University

Session 2.3   Embedded Systems and Reconfigurable Systems
1:30PM – 3:30PM                                                                          Chicago C
Session Chair: Dr. Suresh Borkar                                        Co-chair:  Dr. Guoping Wang

IMAGE CONTRAST ENHANCEMENT BY CONSTRAINED VARIATIONAL HISTOGRAM EQUALIZATION APPROACH
Iyad Jafar and Hao Ying,
Wayne State University
The Technology of IPASS  
Bruce Whiteside  
IEEE

Media Searching on Mobile Devices  
Swee Mean Mok and Raj Swaminathan  
Motorola Inc

Side Channel Resistance Quantification and Verification  
Aaron E. Cohen and Keshab K. Parhi  
University of Minnesota

Acceleration of Finite Field Arithmetic Algorithms in Embedded Processing Platforms Utilizing Instruction Set Extensions  
Nathan P. Jachimiec, Fernando Martinez-Vallina and Jafar Saniie  
Illinois Institute of Technology

Simulation of a Wind Energy Conversion Embedded System  
Constantin Apostoaia, Donald Gray and David Kozel  
Purdue University Calumet

Poster Session I  
3:00PM – 5:00PM  
Chicago D

Session Chair: Mr. Mark Kenkel  
Co-chair: Dr. Hongwei Liu

Assessment of Methods of Biological Signal Analysis  
Amir Talaei-Khoei and Omid Shahmirzadi  
Royal Institute of Technology (KTH), Sweden

ON A MODULATED FILTER-BANK  
Guodong Shi and Youhong Lu  
Jiangsu Teachers University of Technology and 3Com Corporation

Multiple Ports Remote Embedded Debugger Server  
Haitao Sun  
IBM Corporation

What Benefits Are Organizations Really Receiving From Agile Software Development Methodologies?  
Jeffrey Livermore  
Walsh College
Information Hiding Using Enzyme Substrate Watermarking Technique
Shanta Phani, Debnath Bhattacharyya, S K Bandyopadhyay and Poulami Das
Heritage Institute of Technology and University of Calcutta, Kolkata

Neural networks for image processing: new edge detection algorithm
G. Grassi, P. Vecchio, E. Di Sciascio, L. A. Grieco and D. Cafagna
Università del Salento and Politecnico di Bari, Italy

A Microwave Absorption Spectrometer Based On Three-Ray Propagation
Saleh Faruque
University of North Dakota

Design and Implementation of an Intrusion Detection System for Wireless Sensor Networks
Dmitriy Martynov, Jason Roman, Samir Vaidya, and Huirong Fu
Oakland University

NOVEL MODEL OF SOFTWARE RELIABILITY BY THE GREY SYSTEM THEORY
Denghua Mei
South China University of Technology, China

Human Leg Motion Detection System Using Electrical Bio-impedance Measurement
Chul-Gyu Song, Keo-Sik Kim, Yang-Soo An, Jong-Chan Kim and Jeong Hwan Seo
Chonbuk National University, Korea

A Proposed Improvement Model for MC-CDMA Based FFT in AWGN Channel
Salih M. Salih, N. Uzonoglou, A. A. Ali and Waleed A. Mahmoud
University of Technology, Iraq

Testing and Monitoring System for a First Generation Intracortical Visual Prosthesis Device Using Java, Labview and VGA / NTSC output
N.R. Srivastava and P. R. Troyk
Illinois Institute of Technology

Digital Asset Management System for Libraries
Dimitri Kopaliani
Lawrence Technological University

Impacts of Frequency, Thin-film, Barrier Thickness, and Temperature on Interconnect Resistance and Propagation Delay
Pervez Khaled and Masud H. Chowdhury
University of Illinois at Chicago
VLSI Implementation of Residue-to-Binary Converters for Digital Signal Processing
Chin-Long Wey and Shin-Yo Lin
National Central University, Taiwan

RF/Wireless Interconnects in Future On-Chip and Board-Level Clock Distribution Network
Abinash Roy and Masud H. Chowdhury
University of Illinois at Chicago

Nova Interconnect for Dynamically Reconfigurable NoC Systems
Fernando Martinez-Vallina, Nathan Jachimiec and Jafar Saniie
Illinois Institute of Technology

SOFPGA (SYSTEM-ON-FPGA) ARCHITECTURE: PERFORMANCE ANALYSIS
Nasser Alaraje
Michigan Technological University

The Next Wave of Innovation-Nanotech with Defense
Sweety Trivedi
Illinois Institute of Technology

Session 3.1  Special Session on Applications in Communications and Information Technology
4:00PM – 6:00PM  Chicago A

Software Environment for Tactical Training with Trajectory Planning Through Multiple Moving Targets
Sermsak Buntha, Sergiu Dascalu, Narayan Debnath, Sohei Okamoto and Pawinee Buntha
University of Nevada and Winona State University

Integrating OCL Expressions into RSL Specifications
Narayan Debnath, Ana Funes, Aristides Dasso, Germán Montejano, Daniel Riesco, Roberto Uzal

MVC & WORKFLOW-BASED WEB APPLICATIONS DEVELOPMENT FRAMEWORK
Rafic Hage, Walid Keirouz, Marcel Karam and Antoine Hage
KYUBE and American University of Beirut, Lebanon

BIRP: BANK INTRA ROUTING PROTOCOL
Ramzi A. Haraty and Rabie Sadek
Lebanese American University, Lebanon
Transformation of BPMN Subprocesses Based in SPEM Using QVT
N. Debnath, F. A. Zorzan, G. Montejano and D. Riesco
Winona State University

A framework for the Translation of Extended Workflow Processes to Petri Net with Clocks
Narayan Debnath, Daniel Riesco, Gabriel Vilallonga, Germán Montejano and Roberto Uzal
Winona State University and Universidad Nacional de San Luis, Argentina

Session 3.2 Signal and Image Processing II
4:00PM – 6:00PM
Chicago B

Session Chair: Dr. Ezzatollah Salari Co-chair: Dr. Yu Cheng

Packetization of the SPIHT-Coded Bitstream Using an Evolutionary-Based Optimization Technique
Ezzatollah Salari and Jianming Wei
University of Toledo

Nondestructive Evaluation of Bridge Decks Using Infrared Image Analysis
Solange Yohali, Ikhlas Abdel-Qader, Osama Abudayyeh and Sherif Yehia
Western Michigan Univeristy

Embedded ROI Coding of Mammograms Via Combined SPIHT and Integer Wavelet Transforms
Imad Zyout, Ikhlas Abdel-Qader and Hazem Al-Otum
Western Michigan University

Strange Fourier Steganography in Movies
Robert T. McKeon
The University of Notre Dame

Session 3.3 Software Engineering and Data Structures
4:00PM – 6:00PM
Chicago C

Session Chair: Dr. Tricha Anjali Co-chair: Dr. Erdal Oruklu

First Failure Data Capture in Embedded System
Haitao Sun
IBM Corporation

A new method for estimation of software system reliability in neural networks
Denghua Mei
South China University of Technology, China

A New Generation of Middleware Solutions for a Near-Real-Time Data Warehousing Architecture
Ronnie Abrahiem
Lawrence Technological University

Performance Analysis of Service-Oriented Architectures with Multi-Factor Sensitivity Analysis
Xiaobu Yuan and Chunjiao Ji
University of Windsor, Canada

ASIOS: A Tool for the Interactive Transformation of Algebraic Specifications into Object-Oriented Specifications
Bastian Dölle
University of Lübeck, Germany

Saturday, May 19, 2007

Session 4.1  Network Protocol and Security
8:00AM – 10:00AM                                                                       Chicago A

Session Chair:  Dr. Lawrence Miller  Co-chair:  Dr. Zuyi Li

VIMNet - A Dynamic Virtual Modularized Network Architecture
Jonathan J. Guernsey and Lawrence Miller
University of Toledo

Calculating Risk of Integration Relations in Application Landscapes
Madjid Fathi, Alexander Holland, Tobias Schmidt and Henning Peuser
University of Siegen, Germany

Criminology of BotNets and their Detection and Defense Methods
Jivesh Govil and Jivika Govil
University of Michigan

A Comparative Study of Three Random Password Generators
Michael D. Leonhard and V.N. Venkatakrishnan
University of Illinois at Chicago

Session 4.2  Wireless Networks and Sensor Networks
8:00AM – 10:00AM                                                                      Chicago B

Session Chair:  Dr. Yu Cheng  Co-chair:  Dr. Ezzatollah Salari
Leonard E. Lighfoot, Jian Ren and Tongtong Li
Michigan State University

Capacity Analysis of a Voice/Video Integrated WLAN
Yu Cheng and Xinhua Ling
Illinois Institute of Technology and University of Waterloo, Canada

Microwave Tomography Using Dynamic 802.15.4 Wireless Networks
Mathew B. Cover, Kiran Kanukurthy and David R. Andersen
The University of Iowa

A Study on the Cricket Location-Support System Communication Protocols
Yunbo Wang, Steve Goddard and Lance C. Pérez
University of Nebraska-Lincoln

Analysis of Key Management in Wireless Sensor Networks
Huirong Fu
Oakland University

Statistical Characteristics of Reverse Link Inter-cell Interference for Cellular CDMA Systems with Random Power Disparities
Hong Nie, Shaohua Chen and Jacek Ilow
University of Northern Iowa, Cape Brenton University and Dalhousie University

Adaptive Surveillance in Sensor Network Querying
Fatma Mili, John Meyer and Gaurav Saxena
Oakland University

Session 4.3 Wireless Communications II
8:00AM – 10:00AM
Chicago C

Session Chair: Dr. Donald Ucci
Co-chair: Dr. Hao Ying

A QoS Comparison of 4G First-Come-First-Serve Load Sharing Algorithms involving Speech & Packet Data
Susan J Lincke and David Taylor-Fuller
University of Wisconsin-Parkside

Symbol Shaping for Barker Spread Wi-Fi Communications
Tanim M. Taher, Matthew J. Misurac, Donald R. Ucci and Joseph L. LoCicero
Illinois Institute of Technology
Supperimposed training aided Carrier Frequency Estimation in OFDM systems
Malihe Ahmadi and Aryan Saadat Mehr
University of Saskatchewan, Canada

Development of a New OFDM Transceiver without Guard Interval
N. Pulimamidi, J. Nulu, and M. Mansour Tahernezhadi
Northern Illinois University

Comparison of Three Kalman Filters for an Indoor Passive Tracking System
Shuo Shen, Chen Xia, Robert Sprick and Lance C. Perez
University of Nebraska-Lincoln

Session 5.1 Power Systems and Power Electronics
1:30PM – 3:30PM Alumni Lounge
Session Chair: Dr. Zuyi Li Co-chair: Dr. Chi Zhou

Implementation of Digital PID Controllers for DC-DC Converters using Digital Signal Processors
Liping Guo
University of Northern Iowa

Advanced EMS and Its Application to Shanghai Power Grid
Ruan Qiantu, He Guangyu, Mei Shengwei and Lu Qiang
Tsinghua Univ., China

An Improved Method of Passive Input Waveshaping for Single-Phase Rectifier
Hussein A. Kazem,
Newcastle Upon Tyne University, UK

High-Frequency Transformer Isolated 3-Φ 3-Level Single-Stage Soft-Switched AC-to-DC Converter
M.M. A. Rahman
Grand Valley State University

Fault Detection of Permanent Magnet Synchronous Drives with Field Oriented Control
Hongwei Zhang, R. Chakirov and Y. Vagapov
Sheffield Hallam University, UK
Implementation of a Redundant Binary Input Acceptable Multiplier  
Guoping Wang  
Purdue University

Qualitatively Troubleshooting Electronic Circuits using Fuzzy Cognitive Maps  
Karl Perusich  
Purdue University

A Comparison of the Performance of four Exact String Matching Algorithms  
Jonathan Leidig and Christian Trefftz  
Grand Valley State University

IMPROVEMENT OF THE ORTHOGONAL CODE CONVOLUTION CAPABILITIES USING FPGA IMPLEMENTATION  
Aparna Dhirde, Naima Kaabouch and Saleh Farukue  
University of North Dakota

Development of a Touch Screen LCD Screen for a Hybrid Electric Vehicle  
I. Abdul Hafiz, C. N. Harper, S. E. Morey and J. S. Parks  
Rose-Hulman Institute of Technology

Efficient Memory-Based FFT Processors for OFDM Applications  
Chin-Long Wey, Shin-Yo Lin and Wei-Chien Tang  
National Central University, Taiwan

Automated Exploration of Design Concepts  
Thomas M. Tirpak, Lawrence E. Lach and Weimin Xiao  
Motorola

Measuring the Reliability of Existing Web Servers  
Walter W. Schilling, Jr. and Mansoor Alam  
University of Toledo
Safe Trajectory Tracking for the Two-Aircraft System  
Juan S. Mejia and Dusan M. Stipanovic  
UIUC  

EVALUATING SENSORS FOR BRIDGE HEALTH MONITORING  
Ammar Zalt, Vijay Meganathan, Sherif Yehia, Osama Abudayyeh and Ikhlas Abdel-Qader  
Western Michigan University  

DYNAMIC NETWORK REFINEMENT IN AUTOMATED AIRCRAFT ROUTE PLANNING  
Kuodi Jian, Kendall Nygard and Michael Hennebry  
Metropolitan State University and North Dakota State University

Session 6.1  Computer Systems and Intelligent Systems  
3:35PM – 5:45PM  
Alumni Lounge  
Session Chair: Dr. Erdal Oruklu  
Co-chair: Dr. Masud Chowdhury  

Multiprocessor and Operating System Design for Signal Processing on an FPGA  
Fernando Martinez-Vallina, Nathan Jachimiec, and Jafar Saniie  
Illinois Institute of Technology  

Evaluation of Storage Requirements and Applications in the Memory Management for Multidimensional Signal Processing Systems  
Ilie I. Luican, Hongwei Zhu and Florin Balasa,  
University of Illinois at Chicago  

Efficient FFT Engine with Reduced Addressing Logic  
Xin Xiao, Erdal Oruklu and Jafar Saniie  
Illinois Institute of Technology  

Real-Time FPGA Implementation of a Reconfigurable Ultrasonic Detection System  
Hojat Parta, Erdal Oruklu and Jafar Saniie  
Illinois Institute of Technology  

A Goal Directed Planner that Uses Dynamic Logic  
Kuodi Jian  
Metropolitan State University

Session 6.2  Signal and Image Processing III  
3:35PM – 5:45PM  
Ballroom  
Session Chair: Dr. Chaur-Chin Chen  
Co-chair: Dr. David Anderson
Multiresolution Quantization-Based Image Watermarking
Hoan Nguyen and Roland Priemer
University of Illinois at Chicago

Hybrid PCA based Shape from Shading for 3D Head Reconstruction
Qingquan Wu and Jezekiel Ben-Arie
University of Illinois at Chicago

Implementation of an Automatic Fingerprint Identification
Peihao Huang, Chia-Yung Chang and Chaur-Chin Chen
National Tsing Hua University, Taiwan

Colored Noise Reduction Using Bark Scale Spectral Subtraction, Statistics,
and Multiple Time Frames
David Kozel
Purdue University Calumet

Low-Complexity Implementation of Non-Subsampled Directional Filter
Banks using Polyphase Representations and Generalized Separable
Processing
Ahmet M. Bagci, Rashid Ansari and William D. Reynolds, Jr.
University of Illinois at Chicago

Session 6.3 Biomedical Applications and Telemedicine II
3:45PM – 5:45PM Hermann Lounge

Session Chair: Dr. Guillermo Atkin Co-chair: Dr. Chi Zhou

Detection of Breast Cancer Using Independent Component Analysis
Fadi Abu-Amaral and Ikhlas Abdel-Qader
Western Michigan University

The Impact of Fingerprint Force on Image Quality and the Detection of
Minutiae
Eric P. Kukula, Stephen J. Elliott, Hakil Kim and Cristina San Martin
Purdue University

Ribosome Binding Model Using a Codebook and Exponential Metric
Mohammad Al Bataineh, Maria Alonso, Siyun Wang, Wei Zhang and
Guillermo Atkin
Illinois Institute of Technology
Particle Swarm Optimization for Classification of Breast Cancer Data using Single and Multisurface Methods of Data Separation
Girma S. Tewolde and Darrin M. Hanna
Kettering University and Oakland University

A Framework for Exploring and Visualizing Biological Pathways from Large Scale Datasets
Keyuan Jiang and Joseph Robertson
Purdue University Calumet

Sunday, May 20, 2007

Session 7.1   Electronic Systems, Intelligent Systems, and Automation
8:30AM – 10:30AM                           Chicago A

Session Chair: Dr. Ibrahim M. Abdel-Motaleb      Co-chair: Dr. Wei Li

Using Modified z-transforms to Model the Dynamics of the Peak Current-mode Controlled Buck Converter
Erik A. Mayer
Bowling Green State University

Characterization of Microbridge Gas-Flow Sensors
Nita Sinha and Ibrahim M. Abdel-Motaleb
Northern Illinois University

Adaptive Backstepping Design Based on Direct Field-Oriented Control for Induction Motor Speed Control
I. K. BOUSSERHANE, A. HAZZAB1, A. BOUCHETA, M. RAHLI and B. MAZARI
University center of bechar, Algeria

A Testbed for Control Schemes using Multi Agent Nonholonomic Robots
Salman Ahmed and Mohd N. Karsiti
Universiti Teknologi Petronas, Malaysia

Intelligent Controllers for High Performance Coupled-Inductor DC-DC Converter
N. Selvaganesan, G. Divya Charline and S. Renganathan
Pondicherry Engineering College, Bharath Institute of Higher Education and Research, India
Session 7.2  Communication and Signal Processing Systems  
8:30AM – 10:30AM  
Chicago B

Session Chair: Dr. Chi Zhou  
Co-chair: Dr. Chaur-Chin Chen

Parameterized Lossy Compression of Order-independent Data  
Drew Colthorp and Gregory Wolffe  
Atomic Object and Grand Valley State University

Framework for Delivering IPTV Services over WiMAX Wireless Networks  
Ioan Vlad Uilecan, Chi Zhou and Guillermo E. Atkin,  
Illinois Institute of Technology

Compressed-Image Authentication Using Compensated Signature Embedding  
Sufyan Ababneh, Rashid Ansari and Ashfaq Khokhar,  
University of Illinois at Chicago

SPREADING SEQUENCE COMPARISON FOR MC-CDMA SYSTEMS IN A DOUBLY SELECTIVE CHANNEL  
HASSAN EL GHAZI, MARIA CHENNAOUI, CHRISTELLE GARNIER and YVES DELIGNON  
University of Lubeck, Germany

Enriching Interactive Components with Again Commands  
Walter Dosch  
University of Lubeck, Germany

Poster Session II  
10:00AM – Noon  
Chicago D

Session Chair: Dr. Hongwei Liu  
Co-chair: Mr. Mark Kenkel

Competitive Coevolution versus Objective Fitness for an Autonomous Motorcycle Pilot  
Dana Vrajitoru  
Indiana University South Bend

GLOBAL AND LOCAL IMAGE CONTRAST ENHANCEMENT USING SMOOTHED MULTILEVEL HISTOGRAM EQUALIZATION  
Iyad Jafar and Hao Ying  
Wayne State University
Single-Phase Single-Stage 3-Level AC-to-DC Series Resonant Converter
M.M.A. Rahman
Grand Valley State University

User Authentication at Cyberspots
William C. Barge
Tri-State University

Bi-Color Nonlinear Data Embedding and Extraction of Handwritten Signature
Debnath Bhattacharyya, Samir Kumar Bandyopadhyay and Deepsikha Chaudhury
Heritage Institute of Technology and University of Calcutta

GEL IMAGE SEGMENTATION AND BAND DETECTION BASED ON THE DERIVATIVE OF THE STANDARD DEVIATION
Yassin Labyed, Naima Kaabouch, Richard R. Schultz and Brij B. Singh
University of North Dakota

Least-Criteria Record Matching in Database Systems
Scott D. James, Moe Bidgoli and John C. Hansen
Saginaw Valley State University

Practical Network Programming in .NET
Scott D. James, Moe Bidgoli and John C. Hansen
Saginaw Valley State University

A Fuel Cell Stack Real-Time Simulator
Hongwei Zhang, S. Abramov, C. Belloc and J. Evans
Sheffield Hallam University, UK

Lossless Watermarking in JPEG 2000 for EPR Data Hiding
K A Navas, Nithya V S, Rakhi R and Sasikumar M
College Of Engineering Trivandrum, India

SVD-Based Projection for Face Recognition
Chou-Hao Hsu and Chaur-Chin Chen
National Tsing Hua University, Taiwan

On the Investigation of Transactional and Interoperability Issues between IPv4 and IPv6
Jivesh Govil and Jivika Govil
University of Michigan
Rise of Intelligent Organizations: Using BI Tools to Build Intelligent Knowledge Capital

Fawzi Ben Messaoud
ITTESI

Ramifications of Cyber Crime and Suggestive Preventive Measures
Jivesh Govil and Jivika Govil
University of Michigan

Detection of blood vessel in retina images
Subramaniam Ganesan and Kavana P. Rao
Oakland University

Evaluating the Performance of IEEE 802.11 Network using RTS/CTS Mechanism
Hetal Jasani
Michigan Tech University

Efficient Pilot Based Time and Frequency Domain Equalization Schemes in Subband OFDM
Shadab Hussain and M. Tahernezhadi
Northern Illinois University

Insertion and Deletion on a Binary Search Tree using Modified Insert-Delete Pair: An Empirical Study
Prasad Vinod and Suri Pushpa
Majan College, Sultanate of Oman and Kurukshetra University, India

Fuzzy Based Fault Detection of Permanent Magnet Synchronous Generator
S.Renganathan, N.Selvaganesan and R.Saraswathy Ramya
Bharath Institute of Higher Education and Research & Pondicherry Engineering College, India