

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
Platforms
Mazen Alsiety and Daniel Aloï
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 AKSAMIJA 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-V_{th} 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

IMAGE CONTRAST ENHANCEMENT BY CONSTRAINED VARIATIONAL HISTOGRAM EQUALIZATION APPROACH

Iyad Jafar and Hao Ying,
Wayne State 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

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 Apostoiaia, 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

Session Chair: Dr. Narayan Debnath

Co-chair: Dr. Donald Ucci

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, Arístides 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. Venkatakrisnan
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

An Energy Efficient Link-Layer Security Protocol for Wireless Sensor Networks

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. P'erez
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 Breton 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

Superimposed 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 Tahernezehadi
Northern Illinois University

Comparison of Three Kalman Filters for an Indoor Passive Tracking System

Shuo Shen, Chen Xia, Robert Sprick and Lance C. P'erez
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

Session 5.2 Computer Systems and Architecture
1:30PM – 3:30PM

Ballroom

Session Chair: Dr. Guoping Wang

Co-chair: Dr. Lawrence Miller

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

Session 5.3 Design Automation, Intelligent Systems, and Reliability
1:30PM – 3:30PM

Hermann Lounge

Session Chair: Dr. Walter Schilling

Co-chair: Dr. Joseph LoCicero

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-Amara1 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. Selvagesan, 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 Luebeck, 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. Tahernezehadi
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