



The International Conference on Information Technology: New Generations

The Orleans' Hotel & Casino, Las Vegas, Nevada, USA • April 6-9, 2008

ITNG 2008
Conference PROGRAM

(Subject to Change)

April 6, 2008 - SUNDAY

6:00pm - 8:30pm: REGISTRATION (Second Floor, Conference Section)

6:00pm - 8:00pm: PRECONFERENCE RECEPTION

April 7, 2008 - MONDAY

7:00am - 5:00pm: REGISTRATION (Second Floor, Conference Section)

7:00am - 8:00am: CONTINENTAL BREAKFAST

8:00am - 8:10am: Conference Opening Remarks by

Dr. Shahram Latifi, ITNG CHAIR, University of Nevada, Las Vegas

8:10am - 9:00am: Keynote by **Dr. Dennis J Frailey**, ACM Fellow & Distinguished
Lecturer, Raytheon Company in Plano, Texas,

"The Emerging Profession of Software Engineering"

9:00am - 9:10am: BREAK

PARALLEL SESSIONS:

A SESSIONS (Salon K)

SESSION MA1: Speech Signal Processing Applications/Biometrics

CHAIR: Dr. Buket Barkana, The University of Bridgeport, USA

Co-CHAIR: Dr. Navarun Gupta, The University of Bridgeport, USA

9:10am - 10:10am

9:10-9:30 A Vector Transform Application on a Coding Algorithm Based on the Polarity of Speech Signal
Buket Barkana and Tamer Barkana

9:30- 9:50 Short-Time Energy Estimation between Adjacent Formant Frequencies to Identify Speakers' Gender
Deepak Deepawale, Rajesh Bachu and Buket Barkana

9:50-10:10 FES: A System of Combining Face, Ear and Signature Biometrics using Rank Level Fusion
Md. Maruf Monwar and Marina Gavrilova

10:10-10:30 Coffee Break

SESSION MA2: Software Specification and Modeling: Techniques, Tools, and Applications I

CHAIR: Dr. Walter Dosch, University of Luebeck, Germany

Co-CHAIR: Dr. Sergiu Dascalu, University of Reno, USA

10:30am - 12:30pm

10:30-10:50 Improving Model Driven Architecture Earlier Models with Natural Language Oriented Requirements Models
Narayan Debnath, Maria Carmen Leonardi, Maria Virginia Mauco, German Montejano and Daniel Riesco

10:50-11:10 A Feature Model of E-Government Systems Integrated with Formal Specifications
Narayan Debnath, Laura Felice, German Montejano and Daniel Riesco

11:10-11:30 Towards Improving Visual-Facial Emotion Recognition through Use of Complementary Keyboard-Stroke Pattern Information
George Tsihrintzis, Maria Virvou, Efthymios Alepis and Ioanna-Ourania Stathopoulou

11:30-11:50 Execution Trace Visualization in a 3D Space
Philippe Dugerdil and Sazzadul Alam

11:50-12:10 Tools for MDA Software Development: Evaluation Criteria and Set of Desirable Features
Tihomir Calic, Sergiu Dascalu and Dwight Egbert

12:10-12:30 A Minimalist Visual Notation for Design Patterns and Antipatterns
Demis Ballis, Andrea Baruzzo and Marco Comini

12:30-12:50 Streaming Dyadic Boolean Operations
Walter Dosch, Annette Stümpel, Tonu Tamme

12:50-1:30 Lunch (On Your Own)

SESSION MA3: Software Specification and Modeling: Techniques, Tools, and Applications II

CHAIR: Dr. Walter Dosch, University of Luebeck, Germany

Co-CHAIR: Dr. Sergiu Dascalu, University of Reno, USA

1:30pm - 3:50pm

1:30-1:50 Business Process Development in Semantically-Enriched Environment
Iman Poernomo and Timur Umarov

1:50-2:10 A Model Driven Autonomic Management System
Daniel Hagimont, Laurent Broto and Benoit Combemale

2:10-2:30 Boundary Value Analysis using Divide-and-Rule Approach
Karan Vij and Wenying Feng

2:30-2:50 Test Generation Using DHTs Networks
Harry GROS-DESORMEAUX, Hac. ene FOUCHAL and Philippe HUNEL

2:50-3:10 Improving Pattern-Based LTL Formulas for Automata Model Checking
Salamah Salamah, Ann Gates and Steve

3:10-3:30 Combinatorial test case selection with Markovian usage models
Sergiy A. Vilkomir, W. Thomas Swain and Jesse H. Poore

3:30-4:00 Coffee Break

SESSION MA4: Embedded Cryptographic Systems

CHAIR: Dr. Alessandro Barenghi, Politecnico di Milano, Italy

Co-CHAIR: Dr. Manik Lal Das, Western Kentucky University, USA

4:00pm – 6:20pm

4:00-4:20 Analysis of RSA over Gaussian Integers Algorithm
Boris S. Verkhovsky, Aleksey Koval

4:20-4:40 Protection and Recovery of Disk Encryption Key using Smart Cards
Kazumasa Omote and Kazuhiko Kato

4:40-5:00 A FPGA Coprocessor for the Cryptographic Tate Pairing over F_p
Alessandro Barenghi, Guido Bertoni, Luca Breveglieri and Gerardo Pelosi

5:00-5:20 An Efficient Window-Based Countermeasure to Power Analysis of ECC Algorithms
Fan Zhang and Zhijie Shi

5:20-5:40 Resource Efficiency of Instruction Set Extensions for Elliptic Curve Cryptography
Christoph Puttmann, Jamshid Shokrollahi and Mario Pormann

5:40-6:00 ULTRA GRIDSEC: Peer-to-Peer Computational Grid Middleware Security Using High Performance Symmetric Key Cryptography
Mostafa-Sami Mostafa, Safia Deif and Hisham Kholidy

6:00-6:20 An Efficient RSA Public Key Encryption Scheme
Sattar J Aboud, Mohammad A AL-Fayoumi and Mamoun S. AL Rababaa

B SESSIONS (Salon L)

SESSION MB1: E-Commerce

CHAIR: Dr. Haiping Xu, University of Massachusetts Dartmouth

Co-CHAIR: Dr. Ahmed Abukmail, The University of Southern Mississippi, USA

9:10am - 10:10am

9:10-9:30 Automating Contract Negotiation
John Debenham and Elaine Lawrence

9:30-9:50 A Framework for Agent-Based Trust Management in Online Auctions
Haiping Xu, Sol Shatz and Chris Bates

9:50-10:10 Study of Multi-Agent Task Model Based on Product Structure Breakdown
Hao Yongping, Zeng Pengfei and Shao Weiping

10:10-10:30 Coffee Break

SESSION MB2: Data Mining

CHAIR: Dr. Chandan T Bhunia, Haldia Institute of Technology, India

Co-CHAIR:

10:30am - 12:30pm

10:30-10:50 Efficient Indexing and Storage Algorithm for Visual Databases
Mark Smith

10:50-11:10 Expert-Driven Knowledge Discovery
Tristan Ling, Byeong Ho Kang, David P. Johns, Justin Walls and Ivan Bindoff

11:10-11:30 Feature Selection for Document Type Classification
Kazem Taghva and Jason Vergara

11:30-11:50 Mining Medical Databases with Modified Gini Index Classification
Quocnam Tran A Model-based

11:50-12:10 Evaluating the Impact of Component Failure Based on COTS
Hassan Reza

12:10-12:30 Testing Approach for Testing Web Applications Using Statecharts
Hassan Reza

12:30 - 1:30 Lunch (On Your Own)

SESSION MB3: Knowledge Management/Education

CHAIR: Dr. Joshua Pauli, Dakota State University, USA

Co-CHAIR: Dr. Kazuo Hiekata, The University of Tokyo, Japan

1:30pm - 3:30pm

1:30-1:50 Strategic KM, Innovation and Performance
CAROLINA LOPEZ-NICOLAS and ANGEL MEROÑO-CERDAN

1:50-2:10 OnCob: An ontology-based knowledge system for supporting position and classification of co-branding strategy
Wei-Lun Chang

2:10-2:30 A Research on Predicting the Operation Function for the Workflow-Based Knowledge Management Software
Kota Tsubouchi, Kazuo Hiekata and Hiroyuki Yamato

2:30-2:50 Knowledge Articulation Method Using Design Data History
Kazuo Hiekata, Hiroyuki Yamato and Wataru Oishi

2:50-3:10 Incentive-based Technology Start-up Program for Undergraduate Students
Joshua Pauli

3:10-3:30 Instructional-design theories applied on a web-based learning application
Ann Svensson

3:30-4:00 Coffee Break

SESSION MB4: High Performance Computer Architectures

CHAIR: Dr. Anthony S. Fong, City University of Hong Kong, Hong Kong

Co-CHAIR:

4:00pm - 6:20pm

4:00-4:20 A Distributed Shared Parallel IO System for HPC
Guo Yufeng

4:20-4:40 Sorting on Partially Connected Mesh Networks
Xuerong Feng, Chunlei Liu and Jun kong

4:40-5:00 A Scalable Proof Methodology for RISC Processor Designs: A Functional Approach
Salah Merniz and Mohamed Benmohammed

5:00-5:20 Global/Local Hashed Perceptron Branch Prediction
Anthony S. Fong and C. Y. Ho

5:20-5:40 Deadlock-Free Multi-Path Routing for Torus-Based NoCs
Yaoting Jiao, Mei Yang, Yulu Yang and Yingtao Jiang

5:40-6:00 Design and Implementation of a Parameterized NoC Router and Its Application to Build PRDT-based NoCs
Shankar Neelkrishnan, Mei Yang, Yingtao Jiang, Lei Zhang, Yulu Yang and Enyue Lu

6:00-6:20 A Technique for Accelerating Characteristic 2 Elliptic Curve Cryptography
Michael Kounavis and Shay Gueron

C Sessions (Salon J)

SESSION MC1: Hardware/Software Co-design

CHAIR: Mr. Christoph Puttmann, University of Paderborn, Germany

Co-CHAIR:

9:10am - 10:10am

9:10-9:30 Performance Impact of Task-to-Task Communication Protocol in Network-on-Chip
Nader Bagherzadeh and Masaru Matsuura

9:30-9:50 Parallel FFT Algorithms on Network-on-Chips
Jun Ho Bahn, Jungsook Yang, Nader Bagherzadeh

9:50-10:10 Hardware/Software Codesign – Pedagogy for the Industry
Min He, Ming-Che Tsai, Xiaolong Wu, Fei Wang and Ramzi Nasr

10:10-10:30 Coffee Break

SESSION MC2: Web Technologies

CHAIR:

Co-CHAIR: Dr. Manik Lal Das, Western Kentucky University, USA

10:30am - 12:50pm

10:30-10:50 Collaborative Computing Using the Atom Publishing Protocol
Firat Kart, Louise E. Moser and P. Michael Melliar-Smith

10:50-11:10 Secure Web-based Sharing of Health Information Services Using Ad-hoc Dynamic Coalitions
Sampath S, Ravi Iyer, K. S. Sridharan, Ravi Mukkamala and Sandhya Kapoor

11:10-11:30 Implementation of Collaborative Control in Supply Chain Management by Using DA and Workflow Technology
Dan Zhao

11:30-11:50 Search Engines' Help Systems
Yun-Ke Chang, Miguel A. Morales-Arroyo and Amanda Spink

11:50-12:10 Metasearch engines and Information Retrieval: Computational complexity of ranking multiple search results
Robert Goldberg, Isak Taksa and Amanda Spink

12:10-12:30 Incorporating Product Development in CS Curriculum
Sudharsan Iyengar

12:30 - 1:30 Lunch (On Your Own)

SESSION MC3: Networking and Communication I

CHAIR: Dr. Yenumula Reddy, Grambling State University, USA

Co-CHAIR:

1:30pm - 3:30pm

1:30-1:50 A Unified View of Information-Theoretic Aspects of Cognitive Radio
Fahim Gohar Awan and Fainan Hanif Muhammad

1:50-2:10 Error Forecasting Schemes of Error Correction at Receiver
Chandan Bhunia

2:10-2:30 On the Properties of Adaptive Additive Increase
Christos Samaras and Vassilis Tsaoussidis

2:30-2:45 Hybrid Approach for Spectrum Bidding in Wireless Communications for Maximizing the Profit
Yenumula Reddy and Nandigam Gajendar

2:45-3:00 Authenticated Secure Group Communication using Broadcast Encryption Key Computation
R Aparna and B B Amberker

3:00-3:15 Application Based Meta Tagging of Network Connections
Mark Wallis, Frans Henskens and Michael Hannaford

3:15-3:30 On the Properties of System-wide Responsive Behavior
Ageliki Tsioliaridou and Vassilis Tsaoussidis

3:30-4:00 Coffee Break

SESSION MC4: Networking and Communication II

CHAIR: Nandigam Gajendar, Grambling State University, USA

Co-CHAIR:

4:00pm - 6:00pm

- 4:00-4:20 Detecting Primary Signals for Efficient Utilization of Spectrum Using Q-Learning
Yenumula Reddy
- 4:20-4:40 Transmitting Range Assignments using Steiner Tree in Ad Hoc Wireless Networks
Rashid Bin Muhammad
- 4:40-5:00 Enhancing Mobile E-Witness with Access Point Selection Policies
Vittorio Ghini, Stefano Cacciaguerra, Giorgia Lodi and Fabio Panzieri
- 5:00-5:20 Using Domain Specific Question Answering Technique for Automatic Railways Inquiry on Mobile Phone
Avinash Agrawal
- 5:20-5:40 Setup Planning and Operation Sequencing Using Neural Network and Genetic Algorithm
Ravinder Singh Joshi, Navdeep Kumar and Anju Sharma
- 5:40-6:00 Internet Filtering and Censorship
Samir Hamade

SESSION MD1 – POSTERS

Poster Coordinator: Dr. Abdelwahab Hamou-Lhadj, Concordia University, Canada

9:30am -11:30am (Location: Hallway)

A Research focusing on the Structure of Chinese Consumer Satisfaction in Web-based Shopping Environment
Hui Chen and Zheng Li

A Node Allocation Scheme for Parallel Applications
S. Subha

Variable Block Size Architecture for Loops
S. Subha

Noise Removal in Speech Processing Using Spectral Subtraction
Cliston Cole, Marc Karam and Heshmat Aglan

A P2P Agent-based Collaborative System for Pervasive Learning
Wei-Lun Chang

Applying Semantic Web Services to Web-based IS and Applications
Ranjit Bose

Hierarchy-Driven Approach for Attack Patterns in Software Security Education
Joshua Pauli and Patrick Engebretson

Knowledge-based Baseline Detection and Optimal Thresholding for Words Segmentation in Efficient Pre-processing of Handwritten Arabic Text
Jawad AlKhateeb, Jinchang Ren, Stan Ipson and Jianmin Jiang

Biological Research based on Sensor Networks

Perfecto Mariño, Fernando Pérez Fontán, Miguel Ángel Domínguez and Santiago Otero

A Novel Location-Aided Routing Algorithm for MANETs

wang kun and wu meng

A High Performance Strategy For Constructing Dynamic MIB

Xiaotong Zhang, Lei Zhang and Jian Zhou

Towards a Specification Prototype for Hierarchy-Driven Attack Patterns

Joshua Pauli and Patrick Engebretson

Compiled Code Compression for Embedded Systems using Evolutionary Computing

M Ali, Anjali Mahajan and N Choudhari

Prototype Generation from Ontology Chart

George Tsaramiris

Towards Maude-TLA based Foundation for Complex Concurrent Systems Specification and Certification

Nasreddine Aoumeur, Gunter Saake and Kamel Barkaoui

SESSION MD2 – POSTERS

Poster Coordinator:

1:30pm - 3:30pm

(Location: Hallway)

Incorporating Object-Orientedness in Transformations from Live Sequence Charts to Colored Petri Nets

Binsan Khadka and Boleslaw Mikolajczak

Novel Window Functions for Digital Filters

Arulalan Rajan, Ashok Rao S. and Jamadagni H S

A Coarse Grain Multicomputer Algorithm Solving the Optimal Search Binary Tree Problem

Jean Frederic Myoupo and Mounir Kechid

Cryptosystem Based on Extraction of Square Roots of Complex Integers

Boris Verkhovsky and Aleksey Koval

Permutation Routing in All-Optical Multistage Clos Network

Ming-Jye Lee, Chi-Chang Chen and Chien-Ning Yeh

Artificial Intelligence in Sports Prediction

Jarrod Trevathan and Alan McCabe

Distributed Keymanagement Technique for Reliable Secure Group Communication

A.S. Poornima and B.B. Amberker

A Content-based Multimedia Retrieval System Base on MPEG-7 Metadata Schema

Yongbo Ma and Zhiyi Fang

Reversible Network Iterative Construct Method Based on the Cascade peration

Zhijin Guan, Xiaolin Qin and Xinchun Cui

Evaluation of a Middleware System for Accessing Digital Music Libraries in Mobile Services

Paraskevi Lampropoulou, Aristomenis Lampropoulos and George Tsihrintzis

Analysis of the transient delay in a discrete-time buffer with batch arrivals
Joris Walraevens, Dieter Fiems and Herwig Bruneel

Data Compression for Emitter Location Finding in Sensor Networks
Lei Yu, Xiaoyue Liu and Xin Chen

Design of the Next Generation Military Network Management System based on NETCONF
Wei Zhu, Weifeng Shan and Guobin Fu

Network-based EDM Learning Framework in Precision Manufacturing Engineering
Janus Liang

April 8, 2008 - Tuesday

7:00am - 5:00pm: REGISTRATION (Second Floor, Conference Section)

7:30am - 8:30am: CONTINENTAL BREAKFAST

8:00am -9:00am: **Keynote by Dr. Boris S. Verkhovsky**, Professor of Computer Science at the New Jersey Institute of Technology USA,
"Future Applications of Multimedia Communication Networks"
(Location: Salons K&L)

9:00am - 9:10am: BREAK

PARALLEL SESSIONS:

A SESSIONS (Salon K)

SESSION TA1: Optimization and Scheduling/Technology Entrepreneurship

CHAIR: Dr. Navarun Gupta, University of Bridgeport, USA

Co-CHAIR:

9:10am - 10:10am

9:10-9:30 Looking at the Class Associative Classification Training Algorithm
Fadi Thabtah

9:30-9:50 Intelligent Quality Performance Assessment for E-Banking Security Evaluation using Fuzzy Logic
Maher Aburrous, Almagir Hossain, Fadi Thabtah and Keshav Dahal

9:50-10:10 Development of a New Software Product From A Classroom Project
Jeremy Pauli, Ty Lawrence and Brennon Brown

10:10-10:30 Coffee Break

SESSION TA2: Software Engineering I

CHAIR: Dr. Mostafa-Sami Mostafa, Helwan University, Egypt

Co-CHAIR:

10:30am-12:30pm

10:30-10:50 Reverse Engineering Functional Classes: a Middleware Case Study
Hannu Mäyrä and Mauno Rönkkö

10:50-11:10 A Seamless Modeling Approach for Service-Oriented Information Systems
Andreas Rausch and Sebastian Herold

11:10-11:30 A Case Study in Partial Parsing on Unstructured Formats
Chia-Chu Chiang, John Talburt, Ningning Wu, Elizabeth Pierce, Chris Heien, Ebony Gulley and JaMia Moore

11:30-11:50 The State of Metrics in Software Industry
Hisham Haddad and Mauricio Ordonez

11:50-12:10 Semantic Web for E-Government Service Delivery Integration
Farzad Sanati and Jie Lu

12:10-12:30 Managing Process Interaction in IS Development Projects
Reza Khajavinia

12:30- 1:30 Lunch (On Your Own)

SESSION TA3: Software Engineering II

CHAIR: Dr. West Texas A&M University, USA

CO-CHAIR: Dr. Stan Kurkovsky, Central Connecticut State University

1:30pm - 3:30pm

1:30-1:50 Fault-based Web Services Testing
Samer Hanna and Malcolm Munro

1:50-2:10 Using Trustworthy and Referee Agents to Secure Multi-Agent Systems
Jamal Bentahar and Babak Khosravifar

2:10-2:30 A Conceptual Framework for Application Comprehension
Venkat Gudivada, Jagadeesh Nandigam and Jay Bhuyan

2:30-2:50 Measuring the Complexity of Traces Using Shannon Entropy
Abdelwahab Hamou-Lhadj

2:50-3:10 Towards the Development of XML Benchmark for XML Updates
Binh Viet Phan and Eric Pardede

3:10-3:30 Resource Usage Policy Specification for Resource Enforcement of Programs.
Prem Uppuluri and Ajay Gupta

3:30-3:50 Coffee Break

SESSION TA4: Computer Information Technology Education

CHAIR: Dr. Samir N. Hamade, Kuwait University, Kuwait

CO-CHAIR:

3:50pm - 5:50pm

3:50-4:10 A Production Support Infrastructure for Live Student Projects
Jeff Pittges

4:10-4:30 HOMER: Home-based Object-relational Medical Electronic Record
Joseph M Woodside

4:30-4:50 A Six Sigma Support Information System: Process Improvement at a Thai University
Jaruek Chookittikul, Supphachai Busarathit and Wajee Chookittikul

4:50-5:10 Establishing a Consistent Curriculum in a Distributed Campus Environment: Lessons Learned while Moving Towards Accreditation
Janet Kourik and Peter Maher

5:10-5:30 Maple in Mathematics
Suthathip Suanmali

5:30-5:50 Integrating Direct3D Programming into Computer Science Curriculum
Delin Tan and Shou-Hsuan Stephen Huang

6:30pm-7:00pm Award Ceremony (Salon K)

7:30pm -8:00pm CASH BAR (Location: Toulouse Ballroom)

8:00pm-9:30pm CONFERENCE RECEPTION & DINNER (Location: Toulouse Ballroom)

B SESSIONS (Salon L)

SESSION TB1: Information Security and Privacy I

CHAIR: Dr. Manik Lal Das, Western Kentucky University, USA

Co-CHAIR:

9:10am - 10:10am (Location: Meeting Room)

9:10-9:30 Towards a Formal Verification of an Authentication Protocol Using Non-Nonotonic Logic
Manik Lal Das and V Lakshmi Narasimhan

9:30-9:50 A Marked Role and Timing Access Control Model of Workflow System
Hui Zhao and Zhiyi Fang

9:50-10:10 Encryption as an Effective Tool in Reducing Wireless LAN Vulnerabilities
Jiang Li and Moses Garuba

10:10-10:30 Coffee Break

SESSION TB2: Information Security and Privacy II

CHAIR: CHAIR: Dr. Alessandro Barengi, Politecnico di Milano, Italy

Co-CHAIR: Dr. Moses Garuba, Howard University, USA

10:30am-12:30pm

- 10:30-10:50 A New Image Steganography Based on 2^k Correction and Edge-Detection
Jae-Gil Yu, Eun-Jun Yoon, Sang-Ho Shin and Kee-Young Yoo
- 10:50-11:10 Palette and Index Change Technique for Steganography based on an Indexcolor
Se-min Kim and Kee-young Yoo
- 11:10-11:30 Cryptanalysis of Wang et al.'s Remote User Authentication Scheme Using Smart Cards
Eun-Jun Yoon and Kee-Young Yoo
- 11:30-11:50 Security Issues of Collaborative Review System
Yuseung Sohn, Hyun-Yi Moon, Seunglim Yong and Sang-Ho Lee
- 11:50-12:10 Security in the New Era of Telecommunication: Threats, Risks and Controls of VoIP
Moses Garuba, Jiang Li and Zhenqiang Yi
- 12:10-12:30 Intrusion Techniques: Comparative Study of Network Intrusion Detection Systems
Moses Garuba, Chunmei Liu and Duane Frites
- 12:30- 1:30 Lunch (On Your Own)

SESSION TB3: Information Security and Privacy III

CHAIR: Dr. Jiang (Leo) Li, Howard University, USA

CO-CHAIR:

1:30pm - 3:30pm

- 1:30-1:50 A Digital Identity Management Service Model
Yeonjung Kang, Hearyong Park, Kilsoo Chun, Junghwan Song
- 1:50-2:10 EARS: Efficient Entity Authentication in Remote Systems
Manik Lal Das and V Lakshmi Narasimhan
- 2:10-2:30 A Comparative Analysis of Anti-Malware Software, Patch Management, and Host-Based Firewalls in Preventing Malware Infections on Client Computers
Moses Garuba, Chunmei Liu and Niki Washington
- 2:30-2:50 Personalized Negotiation Based on Individualization: Incorporating Personalization into Peer-to-Peer System
Javed Khan, Kailas Bobade and Manas Hardas
- 2:50-3:10 Simon's Intelligence Phase for Security Risk Assessment in Web Applications
Brunil Romero, Marianella Villegas and Marina Meza
- 3:10-3:30 Multi-User FPGA - An Efficient Way of Managing Expensive FPGA Resources Using TCP/IP in a Secure Network Environment
Piyush Kumar Shukla, Sanjay Silakari and S. Singh Bhadoria
- 3:30-3:50 Coffee Break

SESSION TB4: Frameworks Interoperability Modeling and Design for Real-time Systems

CHAIR: Ms. Emilia Colonese, ITA, Brazil

CO-CHAIR:

3:50pm - 5:50pm

- 3:50-4:10 DHPA; A New Distributed High Performance Architecture for Space Environment Modeling and Simulation
Shanshan Li and Qun Wang
- 4:10-4:30 Using Built-In Interoperability with Self-Adaptive Components for RTS
Emilia Colonese
- 4:30-4:50 Proposing a Formal Method to Reduce RTS Model Complexity
Francisco Marcondes, Emilia Colonese, Dias Luiz and Ítalo Vega
- 4:50-5:10 Efficient Monitoring of Embedded Real-Time Systems
João Cadamuro Junior and Douglas Renaux
- 5:10-5:30 Performance Analysis of Cache Memory and Scratchpad Memory in an Embedded High Performance Processor
Wanessa Dias and Osamu Saotome
- 5:30-5:50 A Decision Support System for performance Appraisal
Dhanapal Durai Dominic, Izzatdin Abdul Aziz and Goh Kim Nee
- 6:30pm-7:00pm Award Ceremony (Location: Salon K)
- 7:30pm-8:00pm CASH BAR (Location: Toulouse Ballroom)
- 8:00pm-9:30pm CONFERENCE RECEPTION & DINNER (Location: Toulouse Ballroom)

C Sessions (Salon J)

SESSION TC1: Natural Language Processing, Computational Linguistics, Cognitive Science

CHAIR: Dr. Shantaram Vasikarla, American Intercontinental University, USA

Co-CHAIR:

9:10am - 10:10am

- 9:10-9:25 Formulating Pseudo-Natural Language
Sudharsan Iyengar
- 9:25-9:40 Structural Features for Recognizing Degraded Printed Gurmukhi Script
Manish Jindal, Rajendra Sharma and Gurpreet Lehal
- 9:40-9:55 Exploiting Wikipedia for Directional Inferential Text Similarity
Chee Wee Leong and Samer Hassan
- 9:55-10:10 A Suffix Based Part-of-Speech Tagger for Turkish
Taner Dincer, Bahar Karaoglan and Tarik Kisla
- 10:10-10:30 Coffee Break

SESSION TC2: New Trends in Image Processing

CHAIR: Dr. Piyush Kumar Shukla, Technical University of M.P., Bhopal, India

Co-CHAIR:

10:30am - 12:30pm

10:30-10:50 Novel Multiple Spatial Watermarking Technique in Color Images
Ibrahim Nasir, Ying Weng and Jianmin Jiang

10:50-11:10 Fusion of Hand Based Biometrics using Particle Swarm optimization
Madasu Hanmandlu, Amioy Kumar, Vamsi Krishna Madasu and Prasad Yarlagadda

11:10-11:30 Computer aided detection of suspicious masses and micro-calcifications
Madasu Hanmandlu, D Vineel, Vamsi Krishna Madasu and Shantaram Vasikarla

11:30-11:50 Watermarking: New Approach
Imad Muhi El-Ddin, Hedley Morris and Mohammad Eyadat

11:50-12:10 Miner: A Suit of Classifiers for Spatial, Temporal, Ancillary, and Remote Sensing Data Mining
Ranga Raju Vatsavai, Shashi Shekhar, Thomas E. Burk and Budhendra Bhaduri

12:10-12:30 A New Human Interactive Proofs System for Deaf Persons
Sajad Shirali-Shahreza and Mohammad Shirali-Shahreza

12:30 - 1:30 Lunch (On Your Own)

SESSION TC3: Informatics

CHAIR: Dr. Boris Verkhovsky, New Jersey Institute of Technology USA

Co-CHAIR:

1:30pm - 3:30pm

1:30-1:50 GlycoVault: A Bioinformatics Infrastructure for Glycan Pathway Visualization, Analysis and Modeling
Shravya Nimmagadda, Amrita Basu, Matthew Evenson, Jun Han, Maciej Janik, Rajesh Narra, Kishore Nimmagadda, Arpan Sharma, Krys Kochut, John Miller and Will York

1:50-2:10 Information Assurance and Secure Streaming Algorithm Based on Cubic Roots of Integers
Boris S. Verkhovsky

2:10-2:25 A Search-Free Intersection Algorithm
Akadej Udomchaiporn

2:25-2:40 An Experiment Study on Text Transformation for Compression using Stoplists and Frequent Words
Jirapond Tadrat and Veera Boonjing

2:40-2:55 Automatic Revising Keyword Knowledge Base in Semantic-based Keyword Extraction
Kosin Chamnongthai and Rachada Kongkachandra

2:55-3:10 Adaptive Transport Protocols in Multi Agent System
Amjad Mehmood

3:10-3:30 The Impact of Business Process Outsourcing on Firm Performance
Pisit Chanvarasuth

3:30-3:50 Coffee Break

SESSION TC4: SENSOR NETWORKS

CHAIR: Dr. Fahim Gohar Awan, University of Engineering and Technology, Lahore, Pakistan

Co-CHAIR:

3:50pm - 5:50pm

3:50-4:10 A Two Layered Deployment Schema for Wireless Sensor Network based Location Tracking
Werner Kurschl, Wolfgang Gotteshim, Stefan Mitsch, Rene Prokop and Wolfgang Beer

4:10-4:30 Chord-based Key Establishment Schemes for Sensor Networks
Fan Zhang, Zhijie Shi and Bing Wang

4:30-4:50 SNMP-proxy for Wireless Sensor Network
Yen Yang Lim, Marco Messina, Frank Kargl, Leena Ganguli, Martin Fischer and Tommy Tsang

4:50-5:10 A Secure Group Key Management Scheme for Sensor Networks
A.S. Poornima and B.B. Amberker

5:10-5:30 Processing Ad-Hoc Queries in Wireless Sensor Networks
Sanghun Yun, Haengrae Cho and Xingcheng Liu

5:30-5:50 Overlapped Layers for Prolonging Network Lifetime in Multi-Hop Wireless Sensor Networks
Hongyan Wang, Mei Yang, Yingtao Jiang, Shupeng Wang and Laximi Gewali

6:30pm-7:00pm Award Ceremony (Location: Salon K)

7:30pm-8:00pm CASH BAR (Location: Toulouse Ballroom)

8:00pm-9:30pm CONFERENCE RECEPTION & DINNER (Location: Toulouse Ballroom)

SESSION TD1 – POSTERS

Poster Coordinator:

9:30am -11:30am (Location: Hallway)

Gradient and Principal Component Analysis Based Texture Recognition System: A Comparative Study
Ratika Pradhan, Zangpo Gyalsten Bhutia, Mita Nasipuri and Mohan P. Pradhan

Utilizing User Behaviors with Semantic Metadata
Lili Jiang (to be presented by Dr. Jian Zhan)

Data/Information Lifecycle Management; A Solution for Taming Data Beast
Jivesh Govil and Jivika Govil

Plastic Fiber Optics Simulations
Galathara Kahanda and Syed Ahamed

Advanced Collage CAPTCHA
Mohammad Shirali-Shahreza and Sajad Shirali-Shahreza

A New Congestion control algorithm based on RBFNN
Shan Weifeng, Meng Baohong and Zhu Wei

Very Fast Multi Operand Addition Method by Bitwise Subtraction
Kooroush Manochehri, Saadat Pourmozafari and Babak Sadeghian

Analysis of threats on EPC based RFID systems
Joaquin Garcia-Alfaro, Michel Barbeau and Evangelos Kranakis

A Set Associative Cache Model with Energy Saving
S. Subha

Transformation Matrix System for Reducing the Computational Complexity of Wireless Multi-user Receivers for DS-CDMA Systems
Syed Rizvi, Khaled Elleithy and Aasia Riasat

Modularization of the UML Metamodel using Model Slicing
Jung Ho Bae, Kwang Min Lee and Heung Seok Chae

On Formal Description of Synchronization Requirements in Multimedia Systems
ACM Fong and Andrew Simpson

User Modeling in a Collaborative Learning Environment for UML
Kalliopi Tourtoglou and Maria Virvou

From Use Cases to Framelets for Building Application Frameworks
Sarun Intakosum

ArmSim: a Complete System Simulation Environment of the ARM Embedded System
Wan Han, Gao Xiaopeng, Deng Libo and Yu Ting

A Novel EKF-TDIF Algorithm for GPS Deformation Monitoring System
Jing Yang, Yongquan Wang, Min He, Fei Wang and Xiaolong Wu

SESSION TD2 – POSTERS

Poster Coordinator: Dr. Alicia Washington, Howard University, USA

1:30pm - 3:30pm (Location: Hallway)

Classification of dynamic load balancing strategies in a Network of Workstations
sandeep waraich

Online examination
Sophal Chao and Yenumula Reddy

Adaptive Configuration for Multi-Agent-based Supply Network: A Taxonomy, Critique, and Future Perspective
Khaled Ghoneim and Jamal Bentahar

FPGA Based Implementation of Robust Watermarking System
Hesham Elzouka

Database Support for Discovering Patterns in Large Datasets Collected From Multiple Sensors
Richard Wasniowski

Parallel Steiner tree Construction on Server-Client Model
Rashid Bin Muhammad

Reliable Metal-fill Monitoring System
Phaneeth Kumar Reddy Junga, Mohamed Abdelrahman, Clayton Thurmer and Wael Abdelrahman Deabes

Investigation into the Creation and Application of a Composite Application Software Development Process Framework (CASDPF)
Mohammed Maharmeh and Bhuvan Unhelkar

Kernel-based Speaker Clustering for Rapid Speaker Adaptation
Oldooz Hazrati, Mohammad Ahadi and Omid Sadjadi

AOP Maintains an Independent Coordinate System
Sumanth Yenduri

Comparing Source Codes Generated by CASE Tools with Hand Coded
Denis S. Loubach, Diogo B. Ramos, Osamu Saotome and Adilson M. da Cunha

Tenable Watermarking for Right Infringement
Yamuna Govindharajan and Sivakumar Dakshinamurthi

Developing Aerospace System using PBL and MDA Approach
Joao Carlos S. Nobre, Denis S. Loubach and Emilia Colonese

Comparison between redundancy techniques for Real Time Applications
Fauser Neves and Osamu Saotome

Epidemic Modeling of Military Networks Using Group and Entity Mobility Models
Temitayo Olajide, Alicia Nicki Washington

April 9, 2008 - Wednesday

7:00am-12:00pm: REGISTRATION (Second Floor, Conference Section)

7:30am - 8:30am: CONTINENTAL BREAKFAST

8:00am - 9:00am: Technical Panel - **Dr. Amy Neustein**
"Medical Informatics"

A SESSIONS (Salon K)

SESSION WA1: Mobile Computing

CHAIR: Dr. Stan Kurkovsky, Central Connecticut State University, USA
Co-CHAIR:

9:10am - 10:10am

9:10-9:30 Scalable Video Transmission for a Surveillance System
Tommi Rätty, Lassi Lehikoinen and Francois Bremond

9:30-9:50 A near-Zero Run-time Energy Overhead within a Computation Outsourcing Framework for Energy Management in Mobile Devices

Ahmed Abukmail and Abdelsalam Helal

9:50-10:10 A Self-Healing Plug-in Parser for NMEA Streams
Ron Coleman

10:10-10:30 Coffee Break

SESSION WA2: Mobile Enterprise

CHAIR: Dr. Ahmed Abukmail, The University of Southern Mississippi, USA

Co-CHAIR:

10:30am - 12:30pm

10:30-10:50 Mobile User Needs: Efficient Transactions
Tarek El-Kiki and Elaine Lawrence

10:50-11:10 Mobile Voice Access in Social Networking Systems
Stan Kurkovsky, David Strimple, Eric Nuzzi and Kerry Verdecchia

11:10-11:30 Implementing and Validating an Environment and Health Monitoring System
Marco Messina, Yen Yang Lim, Elaine Lawrence, Don Martin and Frank Kargl

11:30-11:50 A Trust Evaluation Method for Node Cooperation in Mobile Ad Hoc Networks
wang kun and wu meng

11:50-12:10 Stable and Energy Efficient Routing for Mobile Adhoc Networks
Vinay Rishiwal, Ashwani Kush and Shekhar Verma

12:10 - 1:30 Optimization of WAMDAS: A Web Service-Based Wireless Alarm Monitoring and Data Acquisition System for Pharmaceutical Plants
Edith Quispe, Manuel Rodríguez and Edilberto García

12:30 - 1:30 Lunch (On Your Own)

SESSION WA3: E-Learning

CHAIR: Dr. Javad Soroor, Shiraz University of Technology, Iran

Co-CHAIR:

1:30pm - 3:30pm

1:30-1:50 An Innovative Framework for the New Generation of SCORM 2004 Conformant E-Learning Systems
Javad Soroor, Ali Shemshadi and Mohammad Jafar Tarokh

1:50-2:10 A Novel Method for Effective Use of Implicit Feedback in Adaptive e-Learning
Ahmad Kardan and Hamed Monkaresi

2:10-2:30 Decision Support Models for Personalized Course Composition with a Focus on Learning Styles
Ahmad Kardan and Nima Taghipour

- 2:30-2:50 OPEN SLOT
- 2:50-3:10 OPEN SLOT
- 3:10-3:30 OPEN SLOT
- 3:30-3:50 Coffee Break

Conference Conclusion

B SESSIONS (Salon L)

SESSION WB1: Hardware I

CHAIR: Dr. Roman Ostroumov, Luna Innovations, Inc., USA

Co-CHAIR:

9:10-10:10

9:10-9:30 A Meta Hardware Description Language Melasy for Model-Checking Systems
Naoki Iwasaki and Katsumi Wasaki

9:30-9:50 Pipelined Bus-Invert Coding for FPGAs Driving High-Speed DDR-Channels
Guenter Knittel

9:50-10:10 Spin Wave Logic Circuit on Silicon Platform
Alexander Khitun, Mingqiang Bao, Yina Wu, Ji-Young Kim, Augustin Hong, Ajey Jacob, Kosmas Galatsis and Kang L Wang

10:10-10:30 Coffee Break

SESSION WB2: Network Modeling and Analysis

CHAIR:

Co-CHAIR:

10:30am - 12:30pm

10:30-10:50 System content and packet delay in discrete-time queues with session-based arrivals
Laurence Hoflack, Stijn De Vuyst, Sabine Wittevrongel and Herwig Bruneel

10:50-11:10 Flow loss characteristics in the presence of correlated background traffic
Dieter Fiems, Stijn De Vuyst and Herwig Bruneel

11:10-11:25 Delay in a Discrete-time Queueing Model with Batch Arrivals and Batch Services
Dieter Claeys, Koenraad Laevens, Joris Walraevens and Herwig Bruneel

11:25-11:40 A Hierarchical Queueing Model for Streaming Video over A Hierarchical Queueing Model for Streaming Video over Multi-hop Wireless Networks
Hao Wang

11:40-11:55 System-Level Modeling and Simulation of Uplink WCDMA
Rachod Patachaianand

11:55-12:10 Performance Modeling of Delay-Tolerant Networks
Rotimi Iziduh, Lucky Adike and Alicia Washington

12:10-12:30 Modeling Disruption Tolerant Networks with Random Geographical Barriers
Rotimi Iziduh, Lucky Adike, Alicia Nicki Washington

12:30-12:50 Multicast Using Static Trees
Jiang Li

12:50 - 1:30 Lunch (On Your Own)

SESSION WB3: Hardware II/Networks

CHAIR: Dr. Vladimir Kochergin, Luna Innovations, Inc., USA
Co-CHAIR:

1:30pm - 3:30pm

1:30-1:50 On Power Dissipation in Information Processing
Roman Ostroumov1

1:50-2:10 Programmable Logic Gates for Optical Processing
Vladimir Kochergin

2:10-2:30 Hardware Synthesis for Reconfigurable Heterogeneous Pipelined Accelerators
Lech Jozwiak, Alexander Douglas

2:30-2:50 Hamiltonicity of Simplicial-Connected Graphs: an Algorithm Based on Clique Decomposition
Thierry Vallee and Alain Bretto

2:50-3:10 OPEN SLOT

3:10-3:30 OPEN SLOT

3:30-3:50 Coffee Break

Conference Conclusion

END OF SCHEDULE.....