

ITNG 2007
ADVANCE PROGRAM

The International Conference on Information Technology:
New Generations
April 2-4, 2007
The Orleans' Hotel & Casino, Las Vegas, Nevada, USA

April 1, 2007 - SUNDAY

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

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

April 2, 2007 - 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. Colin D. Walter, Head of Cryptography,
Comodo CA, United Kingdom**
Counter Intelligence Against Side Channel Attacks

9:00am - 9:10am: BREAK

PARALLEL SESSIONS:

A SESSIONS (Salon K)

SESSION MA1: **Embedded Cryptographic Systems**

CHAIR: Amir Khatibzadeh, University of Waterloo, Ontario, Canada

Co-CHAIR:

9:10am - 10:10am

9:10-9:30 Programming Highly Parallel Reconfigurable Architectures for Public-Key
Cryptographic Applications
Giovanni Agosta, Luca Breveglieri, Gerardo Pelosi and Martino Sykora

9:30- 9:50 A Reconfigurable Processor for the Cryptographic η_T Pairing in
Characteristic 3
*Robert Ronan, Colm o hEigeartaigh, Colin Murphy, Tim Kerins and
Paulo Barreto*

9:50-10:10 Efficient Hardware for Modular Exponentiation Using the Sliding-Window Method
Nadia Nedjah, Luiza Mourelle and Rodrigo Martins da Silva

10:10-10:30 Coffee Break

SESSION MA2: Mobility & Resource Management in Wireless/Mobile Networks I

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

10:30am - 12:10pm

10:30-10:55 Design of a QoS Signaling API for Advanced Multimedia Applications in NGN
Ognjen Dobrijevic, Miran Mosmondor and Maja Matijasevic

10:55-11:20 TCP Congestion Window Optimization for CDMA2000 Packet Data Networks
Adeel Muhammad

11:20-11:45 Computationally Efficient Resource Allocation in OFDM Systems: Genetic Algorithm Approach
Yenumula Reddy, Gajendar Nandigam, Portia Taylor and Damian Madden

11:45-12:10 No-Beacon GEDIR: Location-Based Ad-Hoc Routing with Less Communication Overhead
Mika Watanabe and Hiroaki Higaki

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

SESSION MA3: Internet and Wireless Network Security

CHAIR:
Co-CHAIR:

1:30pm - 3:30pm

1:30-1:50 SRP-Vegas: Secure Routing Protocol in Mesh Networks
Wei Ren, Yoohwan Kim, Ju-Yeon Jo, Mei Yang, and Yingtao Jiang

1:50-2:10 A Discrete-time Queue Analytical Model based on Dynamic Random Early Drop
Hussein Abdel-jaber, Mike Woodward, Fadi Thabtah and Mahmud Etbega

2:10-2:30 Dynamic Two-Layer Signature-Based IDS with Unequal Databases
Mehdi Salour and Xiao Su

2:30-2:50 A new Dynamic Key Generation Scheme for Fraudulent Internet Payment Prevention
Osama Dandash, Yiling Wang, Phu-Dung Le and Bala Srinivasan

2:50-3:10 THIS: THreshold security of Information aggregation for Sensor networks
Hai Vu, Neeraj Mittal and S Venkatesan

3:10-3:30 Proactive model for Mitigating Internet Denial-of-Service Attacks
Nagesh H.R. and K. Chandra Sekaran

3.30-4.00 Coffee Break

SESSION MA4: SENSOR NETWORKS

CHAIR: Dr. Kenji Yoshigoe, University of Arkansas, Little Rock, USA

Co-CHAIR:

4:00pm – 6:00pm

4:00-4:20 Virtual Sensor Networks - A Resource Efficient Approach for Concurrent Applications
Anura P. Jayasumana, Qi Han and Tissa H. Illangasekare

4:20-4:40 Cell-based Distributed Addressing Technique Using Clustered Backbone Approach
Ashwini Raina, Venketesan Muthukumar and Laxmi Gewali

4:40-5:00 Node Clustering in Wireless Sensor Networks by Considering Structural Characteristics of the Network Graph
Nikos Dimokas, Dimitrios Katsaros and Yannis Manolopoulos

5:00-5:20 Reliable Data Transfer in Wireless Sensor Networks via Out-of-Sequence Forwarding and Delayed Request for Missing Packet
Damayanti Datta and Sukhamay Kundu

5:20-5:40 Genetic Algorithm for Energy Efficient Clusters in Wireless Sensor Networks
Sajid Hussain and Abdul Matin

5:40-6:00 Interference Aware Routing in Sensor Networks
Min Tun, Laxmi Gewali and Henry Selvaraj

B SESSIONS (Salon L)

SESSION MB1: Mobile Enterprise

CHAIR: Dr. Elaine Lawrence, University of Technology, Australia

Co-CHAIR:

9:10am - 10:10am

9:10-9:40 Wireless Communities: Public Assets for 21st Century Society

Elaine Lawrence

9:50-10:10 DPQ: Using A Distributed Priority Queue to Improve Ad hoc TCP Performance
Allan Zhang

10:10-10:30 Coffee Break

SESSION MB2: New Trends in Image Processing I

CHAIR: Dr. Dilip Khairnar, SPANN Laboratory , India
Co-CHAIR:

10:30am - 12:30pm

10:30-10:50 Novel Edge Detection
Mohammad Saleem, Imran Touqir and Adil Siddique

10:50-11:10 Octree-Based 3D Animation Compression with Motion Vector Sharing
Jinghua Zhang, Jinsheng Xu and Huiming Yu

11:10-11:30 Comparison of Pyramidal and Packet Wavelet Coder for Image Compression using Cellular Neural Network (CNN) with Thresholding and Quantization
Rahul S, Vignesh J, Santhosh Kumar S, Bharadwaj M and Venkateswaran

11:30-11:50 An Optimum RBF Network for Signal Detection In Non-Gaussian Noise
Dilip Khairnar, S Merchant and U Desai

11:50-12:10 Structurally Efficient Video Codec for Wireless Mobile Applications
Premkumar Elangovan, Gaoyong Luo and Geoff Lawday

12:10-12:30 Design of a Low Power Multiply-Accumulator for 2D Convolution in Video Processing Applications
Hau Ngo and Vijayan Asari

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

SESSION MB3: New Trends in Image Processing II

CHAIR: Dr. Luc Gillibert, France
Co-CHAIR:

1:30pm - 3:30pm

1:30-1:50 Input Fuzzy Modeling for the Recognition of Handwritten Hindi Numerals
Hanmandlu M, Jyotsana grover, Vamsi Madasu and Shantaram Vasikarla

1:50-2:15 Color Image Compression on Spiral Architecture using optimized domain blocks in Fractal Coding
Nileshsingh Thakur and Dr. O. G. Kakde

- 2:15-2:40 Polygonal Approximation of 2-D Binary Images
Seema Jadhav, Balasaheb Tarle and Jayshree Patil
- 2:40-3:05 Image Resolution Enhancement Using a Hopfield Neural Network
Shuangteng Zhang and Yihong Lu
- 3:05-3:30 Hypergraphs for Near-lossless Volumetric Compression
Luc Gillibert and Alain Bretto
- 3:30-4:00 Coffee Break

SESSION MB4: IT Applications

CHAIR: Dr. Jamal Bentahar, Concordia University, USA
Co-CHAIR:

4:00pm - 6:40pm

- 4:00-4:20 A Probabilistic Approach to Source Code Authorship Identification
Jay Kothari, Maxim Shevertalov, Edward Stehle and Spiros Mancoridis
- 4:20-4:40 Efficient Spam Email Filtering using Adaptive Ontology
Seongwook Youn and Dennis McLeod
- 4:40-5:00 Neural Networks in Cultivation
Dangeti Ravi Shankar, Kodali Akhil, Beerla Pradeep and Dangeti Venkata Srinivas Mohan Nimai
- 5:00-5:20 Exploration of Autism Using Expert Systems
Sampathkumar Veeraraghavan and Karthik Srinivasan
- 5:20-5:40 Results of Real Time Simulation of Medical Knowledge Technology (MKT) System for Medical Diagnosis on Distributed Knowledge Nodes
Narongrit Waraporn
- 5:40-6:00 Practical Challenges Facing Communities of Interest in the Net-Centric Department of Defense
Mary Ann Malloy and Cheryl Connors
- 6:00-6:20 A Novel Multi-agent Framework for the Design of Home Automation
Wen-Hui Chen and Wen-Shang Tseng
- 6:20-6:40 A Social Integrity Model of Agent Autonomy
Marcus Huber

C SESSIONS (Salon J)

SESSION MC1: Pervasive Computing

CHAIR: Dr. Sang Keun Lee, Korea University, Republic of Korea

Co-CHAIR:

9:10am - 10:10am

9:10-9:30 Search Reverse Nearest Neighbor Query On Air
InHo Jang and SangKeun Lee

9:30-9:50 CoCA: A Collaborative Context-Aware Service Platform for Pervasive Computing
Dejene Ejigu, Marian Scuturici and Lionel Brunie

9:50-10:10 S-MARKS: A Middleware Secure by Design for the Pervasive Computing Environment
Sheikh Ahamed, Munirul Haque and KM Asif

10:10-10:30 Coffee Break

SESSION MC2: E-Learning, Education and Curriculum

CHAIR: Dr. Azita Bahrami, Armstrong Atlantic University, USA

Co-CHAIR: Dilip Khairnar, Indian Institute of Technology, India

10:30am - 12:30pm

10:30-10:50 Description and composition of services for distant learning and research activities
Oussama Kassem Zein and Yvon Kermarrec

10:55-11:20 Design Engineering Educational Framework Using ShareFast: A Semantic Web-Based E-Learning System
Kazuo Hiekata, Hiroyuki Yamato, Piroon Rojanakamolsan and Wataru Oishi

11:20-11:45 Lectures for Mobile Devices, Evaluating "iPOD/PDA-casting" Technology and Pedagogy
Kenneth Hoganson and David Lebron

11:45-12:10 An L-Tree Based Analysis of E-lessons
Azita Bahrami

12:10-12:30 Acquiring Information Technology Skills by Freshmen Students at Kuwait University: The Language Factor
Samir Hamade

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

SESSION MC3: Data Mining I

CHAIR: Dr. Jesus Ubaldo Quevedo, University of Wisconsin, Parkside, USA

Co-CHAIR:

1:30pm - 3:30pm

1:30-1:50 Specification of a Near-Real Time Commanding System Using Statecharts and AADL

Hassan Reza

1:50-2:10 Association Rule Discovery of Privacy Information

Kazem Taghva, Pavankumar Bondugula and Darshana Gala

2:10-2:30 A Method to Test GUI Based on High Level Petri Nets

Hassan Reza

2:30-2:50 Discovery of Association Rules in Temporal Databases¹

Abdullah Uz Tansel and Susan P. Imberman

2:50-3:10 Implementation of Unsupervised and Supervised Learning Systems for Multilingual Text Categorization

Chung-Hong Lee and Hsin-Chang Yang

3:10-3:30 Binary Classification by SVM based Neural Trees and Nonlinear SVMs

M. Arun Kumar and Madan Gopal

3:30-4:00 Coffee Break

SESSION MC4: Data Mining II

CHAIR: Dr. Hassan Reza, University of North Dakota, USA

Co-CHAIR:

4:00pm - 6:40pm

4:00-4:20 Quality Metrics for Object-Based Data Mining Applications

Mark Smith and Alireza Khotanzad

4:20-4:40 Extracting Document Structure to Facilitate a Knowledge Base Creation for The UML Superstructure Specification

Mehrdad Nojournian and Timothy Lethbridge

4:40-5:00 A Data mining approach for resolving cases of Multiple Parsing in Machine Aided Translation of Indian Languages

Saranga Dhar Samantaray

5:00-5:20 Analysis of Subspace-Based Face Recognition Techniques under Changes in Imaging Factors

Rabia Jafri and Hamid R. Arabnia

5:20-5:40 Concordance Analysis of DEXA Data

Ray Hashemi, Alexander A. Tyler, Christopher Childers and Arthur Chausmer

- 5:40-6:00 Process Capability for Non Normal Quality Characteristics Data
S. Ahmad, Mali Abdollahian and P. Zeephongsekul
- 6:00-6:20 Capability Analysis for Non Normal Quality Characteristics Using Gamma Distribution
S Ahmad, Mali Abdollahian and P Zeephongsekul
- 6:20-6:40 SEQUENCE PACKAGE ANALYSIS: A New Natural Language Understanding Method for Intelligent Mining of Recordings of Doctor-Patient Interviews and Health-Related Blogs
Amy Neustein

April 3, 2007 - Tuesday

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

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

8:00am -9:00am: Keynote by **Dr. Sharad Mehrotra , University of California, Irvine, USA**

Information Technology to the RESCUE

(Location: Salons K&L)

9:00am - 9:10am: BREAK

PARALLEL SESSIONS:

A SESSIONS (Salon K)

SESSION TA1: Web Technologies I

CHAIR: Dr Amanda Spink, Queensland University of Technology, Australia

Co-Chair: Dr. Jamal Bentahar, Concordia University, Candada

9:10am - 10:10am

9:10-9:30 Prediction of Query Modifications During Web Searching Using Probability Transition Sequences

Bernard Jansen, Amanda Spink and Vinish Kathuria

9:30-9:50 An abandoned web page finds its audience

Terrence A. Brooks and Brian P. Flaherty

9:50-10:10 An Architecture for Web Services Authentication and Authorization in a Maritime Environment

Anya Kim, Amit Khashnobish and Myong Kang

10:10-10:30 Coffee Break

SESSION TA2: Web Technologies II

CHAIR: Dr. Myong Kang, US Naval Research Laboratory, USA

Co-CHAIR: Dr Amanda Spink, Queensland University of Technology, Australia

10:30am-12:50pm

10:30-10:50 Design and Implementation of JSwitch: a Web-based Transaction Coordination Framework

Juan Correa and Manuel Rodriguez

10:50-11:10 Web Accessibility and Information System Curriculum

Mohammad Eyadat and Dorothy Fisher

11:10-11:30 Using Web Search Logs to Identify Query Classification Terms

Isak Taksa, Sarah Zelikovitz and Amanda Spink

11:30-11:50 Mining Web Logs to Improve WebGIS Application Response Times

Richard Holowczak, Isak Taksa and Ilan Levine

11:50-12:10 Multimedia Chinese Web Search Engines: A Survey

Yun Ke Chang, Miguel Morales and Amanda Spink

12:10-12:30 Construction of Semantic Web-based Knowledge Using Text Processing

Hanmin Jung, Seung-Woo Lee, In-Su Kang, Hee-Kwan Koo and Won-Kyung Sung

12:30-12:50 Web Browsing for Visually Impaired People

Gaël Dias and Bruno Conde

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

SESSION TA3:Intelligent/Object-Oriented Computing, Information Systems

CHAIR: Dr. Gail Dias, Portugal

Co-CHAIR: Dr. Mei Yang, University of Nevada, Las Vegas, USA

1:30pm - 3:30pm

1:30-1:50 Presenting a Rule Based Loan Evaluation Expert System

Mahmood Houshmand and Mohammad Daneshvar Kakhki

1:50-2:10 Development of a Model-Based Dynamic Recurrent Neural Network for Modeling of Nonlinear Systems

Marc Karam and Mohamed Zohdy

2:10-2:30 Securing Agent-Oriented Systems: An Argumentation and Reputation-based Approach

Jamal Bentahar, John-Jules Ch. Meyer and Bernard Moulin

- 2:30-2:50 Vehicle recognition Using Curvelet transform and SVM
Farhad Mohamad Kazemi, Saeed Samadi, Hamid Reza Poorreza and Mohamad-R. Akbarzadeh-T
- 2:50-3:10 Memory Garbage Collection for an Object-Oriented Processor
Ho Chung Yan
- 3:10-3:30 A Study of Dynamic Branch Predictors: Counter versus Perceptron
Ho Chung Yan
- 3:30-3:50 Coffee Break

SESSION TA4: Potpourri

CHAIR: Dr. Muammer Zerenler, Turkey

CO-CHAIR: Dr. Raluca Gera, Naval Postgraduate School, USA

3:50pm - 5:50pm

- 3:50-4:10 Incorporating a New Hash Function in OpenPGP and SSL/
Christina Michael and Xiao Su
- 4:10-4:30 Information Technology and Business Performance in Agile Manufacturing: An Empirical Study in Textile Industry
Muammer Zerenler
- 4:30-4:50 Efficient and Lightweight File System for Desktop Grids
Sachin Singh, Uday Joshi and Prem Uppuluri
- 4:50-5:10 Authority, Deontics and Joint Intentions
Marcus Huber, Sanjeev Kumar and David McGee
- 5:10-5:30 On the Dominator Colorings in Bipartite Graphs
Raluca Gera
- 5:30-5:50 On the Dominator Colorings in Bipartite Graphs
Emanuele G. Fusco

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: Bioinformatics

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

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

9: 10-9: 30 Detecting Blood Clots using Neural Networks
Leon Sanders and Reddy Yenumula

9: 30-9: 50 Overfitting in protein name recognition on biomedical literature and method of preventing it through use of transductive SVM
Masaki Murata, Tomohiro Mitsumori and Kouichi Doi

9: 50-10: 10 Partial Geometric Hashing for Retrieving Similar Interaction Protein Using Profile
Yasuhiro Kiuchi, Tomonobu Ozaki and Takenao Ohkawa

10: 10-10: 30 Coffee Break

SESSION TB2: Software Engineering I

CHAIR: Dr. Jamal Bentahar, Concordia University, Canada
Co-CHAIR: Dr. Mohammad Eyadat, California State University, USA

10: 30am-12: 30pm

10: 30-10: 50 Enhanced Component Reuse with Atomic Domains: Application Scenarios
Hisham Haddad and Mauricio Ordoñez

10: 50-11: 15 A Tool Support for Design and Validation of Communication Protocol using State Transition Diagrams
YoungJoon Byun

11: 15-11: 40 Engineering Documents into XML File Formats
Chia-Chu Chiang

11: 40-12: 05 AETA: Algorithm Explanation Teaching Agent
Brian Demmings, Elhadi Shakshuki and Tomasz Müldner

12: 05-12: 30 OPEN SLOT

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

SESSION TB3: Software Engineering II & Algorithms

CHAIR: Dr. Elhadi Shakshuki, Acadia University, Canada
CO-CHAIR: Dr. Mohammad Eyadat, California State University, USA

1: 30pm - 3: 10pm

- 1:30-1:55 Negotiation Strategies for Agent-Based Meeting Scheduling System
Elhadi Shakshuki, Hsiang-Hwa Koo and Darcy Benoit
- 1:55-2:20 Integration of Multilevel Security Features into Loosely Coupled Inter-organizational Workflow
Nirmal Gami and Boleslaw Mikolajczak
- 2:20-2:45 Sorting by Block-Interchanges and Signed Reversals
Cleber Mira
- 2:45-3:10 New Approaches to Modify Bully and Ring Election Algorithms and Modified Bully Algorithm with Fault Tolerant Mechanism
Mehdi Effatparvar
- 3:30-3:50 Coffee Break

SESSION TB4: Software Specification and Modeling- Techniques, Tools and Applications

CHAIR: Dr. Sergiu Dascalu, University of Nevada, Reno, USA

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

3:50pm - 6:10pm

- 3:50-4:10 Function, Data and Super Iterator A design pattern for Algorithm and Data structure collections
Andre Oboler, Charles Twardy and David Albrecht
- 4:10-4:30 Research Documentation Guidelines Capturing knowledge, improving research
Andre Oboler and Ian Sommerville
- 4:30-4:50 SERT: Software Tool for Generating Student Engagement Reports
Judith Ann Ouimet, Sermsak Buntha and Sergiu Dascalu
- 4:50-5:10 On Irregular Behaviours of Interactive Stacks
Walter Dosch
- 5:10-5:30 ArchKriti : A Software Architecture Based Design and Evaluation Tool Suite
Vallieswaran V
- 5:30-5:50 High-Level Design of a Request Driven Sender Component
Walter Dosch and Annette Stuempel
- 5:50-6:10 A Model Checking based Test Case Generation Framework for Web Services

Yongyan Zheng, Jiong Zhou and Paul Krause

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: High Performance Computing Architectures

CHAIR: Dr. S.D.Samantaray, College of Technology, Pantnagar, India

Co-CHAIR:

9:10am - 10:10am

9:10-9:30 A Novel VLSI Divide and Conquer Implementation of the Iterative Array Multiplier
Thomas Poonnen and Adly T. Fam

9:30-9:50 On the Physical Layout of PRDT-Based NoCs
Guoqiang Yang, Mei Yang, Yulu Yang and Yingtao Jiang

9:50-10:10 Multi-path Routing for Mesh/Torus-Based NoCs
Yaoting Jiao, Yulu Yang, Mei Yang and Yingtao Jiang

10:10-10:30 Coffee Break

SESSION TC2: Information Security and Privacy I

CHAIR: Dr. Sung Seok Kang, Republic of Korea

Co-CHAIR:

10:30am - 12:30pm

10:30-10:50 Location Based Security Architecture Based on Smart Client Model For Mobile Environment
Sung-Seok Kang, Young-Sang Kim, Hyo-Sun Kim, Young-Joong Lee and Ki-Cheol Jang

10:50-11:10 Untraceability of Group Signature Schemes based on Bilinear Mapping and Their Improvement
Haeryong Park, Seongan Lim, Ikkwon Yie and Kilsoo Chun

11:10-11:30 Protection Against Web-based Password Phishing
Chik How Tan and Joseph Chee Ming Teo

11:30-11:50 Using Shibboleth for Authorization and Authentication to the Subversion Version Control Repository System
Linh Ngo and Amy Apon

11:50-12:10 An improved signcryption scheme and its variation
Raylin Tso, Takeshi Okamoto and Eiji Okamoto

12:10-12:30 A Simple Shell Bidding Agent
Jarrod Trevathan and Wayne Read

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

SESSION TC3: Information Security and Privacy II

CHAIR: Dr. Sahel Alouneh, Canada

Co-CHAIR: Amir Khatibzadeh, University of Waterloo, Ontario, Canada

1:30pm - 3:30pm

1:30-1:50 Research Directions in Quantum Cryptography
Anteneh Girma, Rajni Goel and Moses Garuba

1:50-2:10 Comparative Analysis of Email Filtering Technologies
Jiang Li, Moses Garuba and Matthew Miller

2:10-2:30 Preventing parameterized vulnerability in Web based applications
Moses Garuba, Jiang Li and Matthew Miller

2:30-2:50 The Security Threat Posed by Steganographic Content on the Internet
Rajni Goel, Moses Garuba and Chunmei Liu

2:50-3:10 Detecting Collusive Shill Bidding
Jarrod Trevathan and Wayne Read

3:10-3:30 Securing MPLS Network Using Multi-path Routing
Sahel Alouneh, Abdeslam En-Nouaary and Anjali Agarwal

3:30-3:50 Coffee Break

SESSION TC4: Information Security and Privacy III

CHAIR: Amy Neustein, Linguistic Technology Systems, New Jersey, USA

Co-CHAIR:

3:50pm - 5:30pm

3:50-4:10 Materialized View Selection In Data Warehousing
Chandrashekhar A. Dhote and Dr. M. S. Ali
Fengying Li, Qingshui Xue and Zhenfu Cao

- 4:10-4:30 Analysis of Traffic-Groomed Optical Networks with Alternate Routing
Nicki Washington
- 4:30-4:50 Semantically Secure Authenticated Encryption Scheme and the Same Scheme for Ad-hoc Group Called a Ring
Ji-Seon Lee and Jik Hyun Chang
- 4:50-5:10 Secure Network Authentication with PassText
Roman Yampolskiy
- 5:10-5:30 Human Computer Interaction Based Intrusion Detection
Roman Yampolskiy
- 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

- 9:30am -11:30am (Location: Hallway)
- A Phase Substitution Technique for DEMA of Embedded Cryptographic Systems
Catherine Gebotys and Brian White
- Decoupling Relational Database from Object Oriented Layers
Fabio Dias Fagundez, Ricardo Niederberger Cabral and Gustavo do Carmo Melim
- iIDENTM Smartphone Embedded Software Testing
Hoo Chong Wei
- A Quick and Energy Efficient Algorithm to Maximize Lifetime of Wireless Sensor Networks
Sajid Hussain, Richard Peters and Obidul Islam
- Performance Analysis of Error Control Codes for Wireless Sensor Networks
Gopinath Balakrishnan, Mei Yang, Yingtao Jiang and Yoohwan Kim
- Exponentially Aggressive Preservation of Nearly Depleted Nodes for Wireless Sensor Networks
Kenji Yoshigoe and Shinya Ito
- Simulation of Localized Performance-Guided Reconfiguration of Distributed Sensor Networks
Parag Joshi and Thomas Jannett
- Improving Mobile Banking Security Using Steganography

Mohammad Shirali-Shahreza

An Efficient Periodic Broadcast Scheme for Mobile Video-on-Demand System
Yi Qi Gui, Eysuk Jung, Young Choi and Hwang Kyu Choi

Classification of Mobile Internet User Behaviors using Qualitative Transition Patterns
Toshihiko Yamakami

Enhanced Current-Balanced Logic (ECBL): An Area Efficient Solution to Secure Smart Cards against Differential Power Attack
Amir Khatibzadeh and Catherine Gebotys

Power Analysis Attacks on ECC Randomized Automata
Fan Zhang and Zhijie Jerry Shi

A Novel Vector-based Keyword Extracting Tool
Tien Nguyen

Creating an Effective Infrastructure to Develop GIS
Emilia Colonese and Adilson Cunha

SuperCache: A Mechanism to Minimize the Front End Latency
Allan Zhang

Cellular Nonlinear Network with Spin Wave Bus
Alexander Khitun, Mingqiang Bao, Joo-Young Lee, Kang Wang, Dok Won Lee and Shan Wang

Topology and Binary Routing Schemes of A PRDT-Based NoC
Xinming Duan, Yulu Yang, Mei Yang, Lei Li and Yingtao Jiang

A Smart Card Mediated Mobile Platform For Secure E-Mail Communication
Geylani Kardas and Ebru Celikel

Sensos:A Sensor Node Operating System with a Device Management Scheme for Sensor Nodes
Manseok Yang, Sun Sup So, Steve Eun, Brian Kim and Jinchun Kim

SESSION TD2 – POSTERS

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

Design and Implementation of a High Performance MPI for Large Scale Computing Systems
Prabu D, Vanamala V, Sanjeeb Kumar Deka, Sridharan R, Prahlada Rao BB and Mohan Ram N

A new approach to avoiding the local extrema trap
Alan McCabe and Jarrod Trevathan

NeuroFuzzy Agent Programming for Processing of EEG/ECG/EMG Waveforms

Tholkappia Arasu Govindarajan

Vehicle Recognition Based on Fourier, Wavelet and Curvelet Transforms - a Comparative Study
Farhad Mohamad Kazemi, Saeed Samadi, Hamid Reza Poorreza and Mohamad-R. Akbarzadeh-T

Efficient location management scheme using MLR considering local usages
Eui-Jong Jeong and Goo-Yeon Lee

uKey: A Unified Key Management and Authentication Automation Middleware For Heterogeneous System
Allan Zhang

Design of a RFID Transponder for Application on Security
Kun-Yo Liu and Tim Yao

Goal Oriented Templates to Dynamically Assess Knowledge
Jesus Ubaldo Quevedo-Torrero and Alma Delia Rodríguez-Bernal

Individuation Learning Components in Intelligent Education Games
Fengyuan Xu and Zhiyi Fang

Mobile Interface for Domain specific Machine Translation Using Short Messaging Service
Avinash Agrawal and Manoj Chandak

Utilizing the Fuzzy Logic Model to Develop the Arab Management System Performance
Mazin Alhadidi

A Distributed Geometric Routing Algorithm for Ad hoc Wireless Networks
Rashid Bin Muhammad

PAD: A Design Space Exploration Model For Reconfigurable Systems
Kang Sun, Xuezheng Pan, Jimin Wang and Lingdi Ping

Data Fusion Support for Intrusion Detection and Prevention
Richard Wasniowski and Mohsen Beheshti

Economic Evaluation of IT Security
Mohammed Ketel

Erratic Cryptosystem for Elevated Message Security
F. Sheeja Mary

Mobility Aware Transmission Power Control in Mobile Ad-hoc Network
SangKwon Moon, YongJoo Song, Keuntae Park and Daeyeon Park

Generating a Proxy Signature on a Confidential Message
Ji-Seon Lee and Jik Hyun Chang

April 4, 2007 - Wednesday

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

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

8:00am - 9:00am: Technical Panel - **Dr. Sandra Gorka, Pennsylvania College of Technology, USA**
Computing Accreditation and IT Curriculum

A SESSIONS (Salon K)

SESSION WA1: Embedded Systems and Reconfigurable Architectures I

CHAIR: Dr. Rabindra Ku Jena, IT, India

Co-CHAIR:

9:10am - 10:10am

9:10-9:30 A Multi-Objective Evolutionary Algorithm Based Optimization Model for Network-on-Chip Synthesis
Rabindra Jena and G.K Sharma

9:30-9:50 Runtime Partial Reconfiguration for Embedded Vector Processors
Muhammad Hasan and Sotirios Ziavras

9:50-10:10 FPGA-based Vector Processing for Matrix Operations
Hongyan Yang, Sotirios Ziavras and Jie Hu

10:10-10:30 Coffee Break

SESSION WA2: Embedded Systems and Reconfigurable Architectures II

CHAIR: Mr. Tony Benavides, Benedict College, USA

Co-CHAIR:

10:30am - 12:50pm

10:30-10:50 SPA resistant Elliptic Curve Cryptosystem using Addition Chains
Andrew Byrne, Nicolas Meloni, Francis Crowe, William P. Marnane, Arnaud Tisserand and Emanuel M. Popovici

10:50-11:10 The Apparatus and Enabling of a Code Balanced System
Tony Benavides, Justin Treon and Weide Chang

11:10-11:30 Compact FPGA-based systolic array architecture suitable for vision systems
Griselda Saldaña

- 11:30-11:50 Gray Code Chaining: A High Performance Hashing Algorithm for Limited Storage Applications
Mitchell Loeb and Alan Tharp
- 11:50-12:10 Efficient Finite Field Processor for GF(2¹⁶³) and its VLSI Implementation
Bijan Ansari and Huapeng Wu
- 12:10-12:30 A Fault tolerant mechanism for handling Permanent and Transient Failures in a Network on Chip
Muhammad Ali, Michael Welzl and Sybille Hellebrand
- 12:30-12:50 On Design and Analysis of a Feasible Network-on-Chip (NoC) Architecture
Jun Ho Bahn, Seung Eun Lee and Nader Bagherzadeh
- 12:50 - 1:30 Lunch (On Your Own)

SESSION WA3: Potpourri

CHAIR: Dr. Daniela Ferrero, USA
Co-CHAIR:

1:30pm - 4:10pm

- 1:30-1:50 Implementation and Performance Analysis of an IPv6 Multicast Forwarder for the IXP2400 Network Processor
Woojin Park, Kyungsoo Lim and Sinam Woo
- 1:50-2:10 On the Design of a Parallel Link Using Rigid-Flex PCB Technology
Guenter Knittel
- 2:10-2:30 Some properties of superline digraphs
Daniela Ferrero
- 2:30-2:50 Collaborative Pricing for eService Bundle Delivery: A Framework
Wei-Lun Chang and Soe-Tysr Yuan
- 2:50-3:10 Adaptive Pattern Movement for Mobile Games
Ron Coleman
- 3:10-3:30 A Bottleneck Eliminating Approximate Algorithm for PON Layout
Samee Khan
- 3:30-3:50 Investigation of Effective Factors on e-Readiness of Iranian Manufacturing SMEs
Mohammad Fathian and Babak Amiri
- 3:50-4:10 Performance Evaluation Cache Memory Organizations in Embedded Systems
Mohsen Sharifi, Mohsen Soryani and Mohammad Hossein Rezyani

Conference Conclusion

END OF SCHEDULE.....