# ICCTA 2007 Program

## DAY 1 - Saturday, September 1st , 2007

09:00 Registration

10:00 Opening Session

11:00 Coffee Break

11:30 Invited Talk
**FOCALE - A Novel Autonomic Networking Architecture for Seamless Mobility**
*Dr. John Strassner*, Motorola Fellow and Vice President, Autonomic Networking, Motorola Labs, USA

12:30 Company Presentation (NEC - AT&C)
**High Availability and Data Security Solutions**
*Vakis Chimonides* - Sales Director - NEC Computers B.D.U.
*Ahmed El Guindy* – Sales & Marketing Director – AT&C

13:30 Company Presentation (Vodafone)
**Mobile phones and its relation to health**
*Dr. Hamdy el Laithy*, Regulatory Director, Vodafone Egypt

15:00 Lunch

16:00 Company Presentation (NCR)
**Data Warehouse Maturity Assessment**
*Eng. Mohamed Helmy*

17:00 Company Presentation (ORASCOM Technology)

# DAY 2 - Sunday, September 2nd, 2007

## 9:00 - 11:00 Two Parallel Sessions

| Session I: Computer Control and Industrial Applications |
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| Chairs: *Prof. A. Elkashlan and Prof. E. Zakzouk* |
| **Computer Software for Designing Ventilation Systems of Underground Car Parks**<br>*M.M. Abo Elazm, A.F. Elsafty, A.A. El-Ahwani, and R. Hamouda* |
| **Computer Aides in the Design and Performance of Linear Induction Motor**<br>*Ahmed. F. Abd El-Halim, Mohamed .A. Ashraf, and Ibrahim. F. Al-Arabawy* |
| **Subsea Pipeline Design Using a New Computational Tool**<br>*M Shehadeh, T Elsayed, and M Hegazy* |
| **Microcontroller Based Hybrid Renewable Energy System**<br>*Alaa E. Khalil and Medhat Elsingaby* |
| **Computer Based Design Analysis for a Marine Hydrogen Internal Combustion Engine**<br>*Mohamed M. El-Gohary,  Khaled M. Abdou, and Hossam A. El-Sherif* |
| **Modelling & Operation of Linear Permanent Magnet Stepper Motor**<br>*M. Abuzeid, A. Anas El-Wogood, and A. Menesy* |
| **Operation Control of Multilevel Inverters for Induction Motors**<br>*Hamdy A. Ashour, Yasser G. Dessouky, and Samia A. Mahmoud* |

| Session II: Computer Networks and Internet Technology |
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| ***Chairs:*** *Prof. Nazieh Elderini and Prof. Y. Hanafy* |
| **Autonomic Operation of the Next Generation Internet**<br>*John Strassner, Mícheál Ó Foghlú, Willie Donnelly, and Nazim Agoulmine* |
| **Cheating Avoidance Algorithms for an Overlay Multicast protocol**<br>*Ayman El-Sayed*<br>Egypt |
| **A New Web 3D GIS Visualization Technique**<br>*M. A. Sherif, H.S. Ahmed, F.A.Tokery, and H. M. Nassar* |

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| **Enhancing Fault Recovery in MPLS Networks Using p-Cycle Structure**<br>*Sahar A. El Shazely, Omayma A.M. Abdel Mohsen, and Khaled Shehatta* |
| **Random Multiple Access Method for Wire and Wireless Local Networks**<br>*V. Zagursky and Dz.Zibin* |
| **Source specific QoS Based Multicast Routing for IP Networks**<br>*Ibrahim. I. Ibrahim, Ahmed. S. Ali  and Ahmed. M. Abd El-Haleem* |
| **Feedback Control for OBS Networks**<br>*Wael Hosny Fouad Aly, Mohamed Faten Zhani, and Halima Elbiaze* |
| **Analysis of Energy Consumption in Multi-hop Wireless Sensor Networks**<br>*Mohamed Hefeeda* |

11:00 Coffee Break

11:30 Invited Talk
      Real and Virtual Shared Places for Communication and
                  Collaboration

      *Dr. Denis Gracanin*, Department of Computer Science
                Virginia Tech, USA

12:30 – 14.30 Two Parallel Sessions

| Session III: Artificial Intelligence-1 |
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| Chairs: *Prof. A. Shoukry and Prof. O. Badawy* |
| **LARGE-SCALE OPTIMAL SCHEDULING VIA GENETIC ALGORITHMS WITH EMPHASIS ON URBAN TRANSIT NETWORK SYSTEMS**<br>*Professor Doctor Nabil Hassan* |
| **An Analytical Method for learning Cellular Neural Networks Template based on Rough Sets Theory**<br>*Elsayed Radwan and Omaima Nomir* |
| **Application of reactive scheduling using CBR in Steel Industry**<br>*M.S.A.Ibrahim and G.ElGohary* |

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| **ROUGH SETS ANALYSIS FOR FEATURE SELECTION AND REDUCTION** |
| *Mostafa Abdel Aziem Mostafa and Hoda Saleh Ahmed* |
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| **Mobile Agents Migration in peer-to-peer Based on machine Learning** |
| *Yasser K. Ali, Hesham N. Elmahdy, and Sanaa El Olla Hanfy Ahmed* |

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| Session IV: Electronics & Wireless Communications-1 |
| Chairs: *Prof. Said Elkhamy and Prof. N. Hamdy* |
| **Optimum Parameters for High Efficiency Quantum Well Solar Cell** |
| *Mohamed Bashir Saleh, Mohamed Shawky and Alaa S. Hafez* |
| **Double-Sided Printed Triangular Bow-Tie Antenna for UWB Communications** |
| *Ahmed M. Gomaa, Darwish A. E. Mohamed, and Mohab Mangoud* |
| **Effect of Microwave Weapons on Electronic Systems** |
| *Amr Mokhtar, Ahmed M. Ghareeb, Mohamed El-Amir Attalah, and Alaa S. Hafez* |
| **The Analysis of Ultra-Wideband Driven Triple Slotted Trapezoidal Antenna Using L-Shaped Ground Plane for Networks Applications** |
| *Yasser M. Madany* |
| **Parallel Interference Cancellation and Linear Equalization for Multirate Downlink CDMA Systems** |
| *Faisal S. Al-Kamali, M. I. Dessouky, B. M. Sallam, and F. E. Abd El-Samie* |

15:00 Lunch

16:00 - 18:00 Two Parallel Sessions

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| Session V: Artificial Intelligence-2 |
| Chairs: *Dr. A. Hegazy and Dr. E. Kosba* |
| **Scheduling and Cost Optimization of Repetitive Projects Using Genetic Algorithms** |
| *Emad E. El-Beltagi, Ehab M. El-Kassas, Ibrahim Abdel Rasheed, and Shadi N. El-Tawil* |

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| **MYOCARDIAL-INFRACTION BASED ON NEURAL NETWORKS AND SUPPORT VECTOR MACHINES**<br>*Ibrahim Abdulrab Ahmed* |

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| **A Fast convergence Adaptive Multi-Objective Genetic Algorithm to Solve Large Scale Optimization Problems**<br>*Osama A. Abd EL-Rahman, Waiel F. Abd EL-Wahed, and Mohie M. HadHoud* |

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| **Chatter Prediction By Monitoring Power Consumption Via An Artificial Neural Network (ANN)**<br>*M.A.Helaly* |

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| **Stochastic Simulation of the Regulatory Pathways involved in Diabetes using Petri-nets**<br>*Ken McGarry, Mohamed Loutfi, and Alfredo Moscardini* |

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| **Quantum Gate Network based on adiabatic theorem**<br>*Rigui Zhou* |

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| Session VI: Electronics & Wireless Communications-2 |
| Chairs: *: Prof. M. Hussein and Dr. M. Abouzeid* |

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| **Design and Simulation of Electrostatic Actuated Tunable MEMS Capacitors**<br>*A.Khairy Aboul-Soud, Ahmed I. Salem, and Alaa S. Hafez* |

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| **Code residual Crowded Partitioning Adaptive Code Assignment (CRCPACA) for Orthogonal Variable Spreading Factor codes in wideband CDMA**<br>*Mohamed E. Khedr, Roshdy A. AbdelRassoul, and Mahmoud Mohamed Youssef* |

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| **Erbium Doped Waveguide Amplifier Gain for Different Erbium Concentration Profiles: Effect of Chip Area and Pump Power**<br>*Ange A. Malek, Moustafa H. Aly, and Khamis El-Shennawy* |

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| **Tunable Multi-Wavelength Erbium Doped Fiber Laser Using Cascaded Apodized Fiber Bragg Gratings**<br>*Islam A. Ashry, Mohamed M. Keshk, Moustafa H. Aly, and Ali M. Okaz* |

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| **A Novel Multilevel Biphase Pulse Compression Codes**<br>*El-Sayed A. Youssef, Amr Mokhtar, Mohamed Madkour, Mohamed Abdel-Latif* |

# DAY 3-Monday September 3rd, 2007

9:00 - 11:00 Two Parallel Sessions

| Session VII<br>Algorithms and Optimization |
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| Chairs: *Prof. N. Sorial and Prof. O. Ismail* |
| **A Parallel Scatter Search Algorithm for Solving Optimization Problems**<br>*Saber M. El-Sayed, Waiel F. Abd EL-Wahed, and Nabil A. Ismail* |
| **Labeling Connected Components of a Binary Image**<br>*Yahia S. AL-Halabi* |
| **Modeling industrial process quality using Taguchi's experimental design**<br>*Mazin Baker Adel and Tamather N. Al-shimmari* |
| **Design of Combinational Logic Circuits Using a New Metaheuristic Based Algorithm**<br>*Walid M. Aly* |
| **Approximate Implicitization of Offset and Sweep Surfaces**<br>*Mohamed Shalaby* |
| **A Randomization Method to Correctly Estimate Overall Significance in Best Subsets Regression**<br>*Y. A. Shehata and P. White* |
| **Memory Hierarchy Exploration for Accelerating the Parallel Computation of Singular Value Decompositions**<br>*Mostafa I. Soliman* |

| Session VIII<br>Distributed Systems and Architecture |
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| Chairs: *: Prof. M. Saeb and Prof. T. Elsonni* |
| **Development of New Messaging Service on a Platform Service of Next Generation Network**<br>*Walid TRABELSI, ASMA BEN LETAIFA and SAMI TABBANE* |

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| **GSM Security Using Standard Encryption Algorithm**<br>*Zaher Jabr Haddad, Imane Aly Saroit Ismail, and Mohamad Mahmoud Abd-ElDayem* |
| **Opacity based security**<br>*Damas P. GRUSKA* |
| **Application of Kano's Model for Evaluating Information Quality of University Websites**<br>*Md. Saifuddin Khalid, Anwar Mustafa, and Indrani Haque* |
| **MPICH-T: a Trust Model Based Fault-tolerant Model for Grid Platform**<br>*Ling SHANG, Zhijian WANG, Xiaofeng ZHOU, Xiaoping HUANG, and Yongshang CHENG* |
| **A Chip Multi-Processor for High Performance Embedded System**<br>*Zhang Shengbing, Wang Jing, Wang Hai, and Zhang Meng* |

11:00 Coffee Break

11:30 – 13:30 Two Parallel Sessions

| Session IX: Software Engineering and Database Systems |
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| Chairs: *Prof. Meer Hamza and Dr. Medhat Fakhry* |
| **Query Optimization Based on Time Scheduling Approach**<br>*M. Amin, H. M. Abdull-Kader, Ayman Mousa, and N. El Ramaly* |
| **Tactile Information Flow Ontology**<br>*Eirini V. Myrgioti, Vasileios G. Chouvardas, Amalia N. Miliou, and Miltiadis K. Hatalis* |
| **A Branching Mechanism for Software Change Management and Version Control**<br>*Ramadan Moawad and Ahmed El Demallawy* |
| **Formal Model of Computer-Based Air Traffic Control System Using Z Notation**<br>*Maryam Jamal and Nazir Ahmad Zafar* |
| **Formal Specification of a Particular Critical Domain Using RSL**<br>*Mohammad Reza Nami* |

| Modeling user cognitive task using requirement engineering process in an information retrieval context |
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| *Amina Sayeb Belhassen, Henda Hadjami Ben Ghezala* |

| Detection of Malicious User in Oracle 10g DBMS and Cost of Elimination |
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| *Md. Saifuddin Khalid, Md. Ruhul Amin and M. Abdus Sobhan, and Indrani Haque* |

| Session X: Image Processing and Pattern Recognition |
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| Chairs: *Prof. Y. Elsonbaty and Prof. K. Mahar* |

| Human Identification Based on Fusing Matching Algorithms Using Dental X-Ray Radiographs |
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| *Omaima Nomir and Mohamed Abdel-Mottaleb* |

| 3D Reconstruction from MRI Images Using Combined Rational Gaussian and Partition of Unity Implicits |
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| *Amira El Gamal, Essam Atta, Hamed Nassar and Taymor Nazmi* |

| A Refined Approach for Genomic Clustering Of DNA Microarray in Bioinformatics |
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| *Sherin M. Youssef* |

| An Automatically detecting the Existing of Hidden Messages in an Images |
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| *A. Baith M. and Abuarafah A. G.* |

| Interactive Volumetric Textures based on reconstruction method |
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| *Babahenini Mohamed Chaouki and Djedi NourEddine* |

14:00 Lunch