



22nd International Conference on Computer Theory and Applications

ICCTA 2012

13-15 October 2012
Alexandria, Egypt

Conference Program

Day 1

Saturday, October 13th, 2012

DAY 1 - Saturday, October 13th, 2012

09:00 Registration

10:30 Opening Session

11:30 Coffee Break

12:00 Keynote Speech

"Trends in Recent and Future Technologies"

H.E. Prof. Dr. Yousry El Gamal

Chairman-Board of Trustees

Egypt-Japan University for Science and Technology

Former Minister of Education

President, Computer Scientific Society

13:00 Keynote Speech

**"The Information Technology Academia Collaboration (ITAC)
Initiative: A Model for Empowering Cooperation between the
ICT industry and the Research Community"**

Prof. Dr. Sherif Hashem

Executive Vice President

Information Technology Industry Development Agency (ITIDA)

Egypt

14:00 Keynote Speech

"Economic Impact of the Internet"

Eng. Wael Fakharany

Egypt and North Africa Regional Manager

Google

15:00 Lunch

Day 2

Sunday, October 14th, 2012

DAY 2 - Sunday, October 14th, 2012

9:00 - 11:00 Two Parallel Sessions

Session I Networks, Security, and High Performance Computing -1	Session II Information Systems -1
<i>Chairs: Prof. Dr. Mohamad Abou El-Nasr and Dr. Ayman Abdel-Hamid</i>	<i>Chairs: Dr. Essam Kosba and Dr. Mahmoud Farouk</i>
HPRDG : A Scalable Framework Hypercube-P2P-based for Resource Discovery in Computational Grid Hesham A. Ali (Mansoura University, Egypt) and Mohammed A. Ahmed (Assuit University, Egypt)	Skyline Sets Queries from Databases with Missing Values Mohammad Shamsul Arefin and Yasuhiko Morimoto (Hiroshima University, Japan)
LU Factorization Using Multithreaded System Mohammad Osama Badawy, Yasser Hanafy, and Ramy Eltarras (Arab Academy for Science and Technology, Egypt)	GIS-Based Decision Support System for Criminal Tracking Eman Mohamed Abd El-Aziz, Saleh Mesbah, and Khaled Mahar (Arab Academy for Science and Technology, Egypt)

Session I Networks, Security, and High Performance Computing -1	Session II Information Systems -1
PA-SET: Privacy-Aware SET Protocol Ayman Abdel-Hamid, Ossama Badawy and Shreif Bahaa (Arab Academy for Science and Technology, Egypt)	A GIS-Based DSS for Evacuation Planning Reham Ebada, Saleh Mesbah, Essam Kosba, and Khaled Mahar (Arab Academy for Science and Technology, Egypt)
	A GIS Vectorization Model for Quad-Tree Satellite Images Saleh Mesbah, Mohamed Kholief and Ahmed Mahdy (Arab Academy for Science and Technology, Egypt)

DAY 2 - Sunday, October 14th, 2012 (Cont'd)

11:00 Coffee Break

11:30 - 1:30 Two Parallel Sessions

Session III Networks, Security, and High Performance Computing -2	Session IV Information Systems -2
Chairs: Dr. Mohamed E. Khedr	Chairs: Prof. Dr. Ossama Ismail and Dr. Saleh Mesbah
Intelligent State-based XML Firewall Gihan Thabet, Sherif Khattab, Hesham A. Hassan and Fatma A. Oamara (Cairo University, Egypt)	Collaboration Network Organization Grid-Cloud Convergence Architecture (CNOGCA) Morcous M. Yassa, Hesham A. Hassan and Fatma A. Oamara (Cairo University, Egypt)
A Framework for Developing Cross-Browser Intensive Arabic Data Web Applications Mahmoud Youssef, Nourhan Hamdi, and Salma Rayan (Arab Academy for Science and Technology, Egypt)	Transforming Business Patterns to Colored Petri Nets using Graph Grammars Karima Mahdi (Ecole Normale Supérieure (ENS) Constantine, Algeria) Raida Elmansouri and Allaoua Chaoui (University Mentouri, Constantine, Algeria)

Session III Networks, Security, and High Performance Computing -2	Session IV Information Systems -2
On Balance between Security and Performance for LTE Wireless Networks Khaled Y. Youssef (Alcatel-Lucent, incl. Bell Labs, France) , Hesham Kamel (Pakistan Mobile Comm., Pakistan), Ahmed A. Hafez (Military Technical College, Egypt) and Abdel Halim A. Zekry (Ain Shams University, Egypt)	Semantic Derivation of Enterprise Information Architecture from Business Process Architecture Mahmoud Ahmad and Mohammed Odeh (University of the West of England, UK)
	Semantic Form-based Guided Search System Reham Hesham El-Deeb, Abdel Fatah. A. Hegazy (Arab Academy for Science and Technology, Egypt) and Aly Aly Fahmy (Cairo University, Egypt)

Session III Networks, Security, and High Performance Computing -2	Session IV Information Systems -2
	<p>Cloud-based Service for Secure Electronic Medical Record Exchange</p> <p>Asmaa Radwan (Alexandria University, Egypt), Ayman Abdel-Hamid and Yasser Hanafy (Arab Academy for Science and Technology, Egypt)</p>

14:00 Lunch

Day 3

Monday, October 15th, 2012

DAY 3-Monday October 15th, 2012

9:00 - 11:00 Two Parallel Sessions

Session V Computer Control and Industrial Applications	Session VI Artificial Intelligence
Chairs: Prof. Dr. Mahmoud Abou Zeid and Prof. Dr. Hamdy Ashour	Chairs: Prof. Dr. Amin Shoukry and Prof. Dr. Osama Badawy
Solving The Singularity of Car Like Robot With Back Trailer Ahmed K. El-Shenawy and Tarek El-Derini (Arab Academy for Science and Technology, Egypt)	Towards Retail Market Recommendations using Termite Colony Optimization Radwa Ali (Al-Azhar University, Egypt), Soumya Banerjee (Birla Institute of Technology, India), Neveen I. Ghali (Al-Azhar University, Egypt), and Aboul Ella Hassanein (Cairo University, Egypt)
Maximum Power Battery Charging from PV System Microcontroller Based Ahmed Gaber Hassan, Haitham Hassan and Mahmoud Abu zeid (Arab Academy for Science and Technology, Egypt) and Moataz Soliman (Alexandria University, Egypt)	A Hybrid Method for User Query Reformation and Classification Said M. Fathalla, Yasser F. Hassan and Maged El-Sayed (Alexandria University, Egypt)

Session V Computer Control and Industrial Applications	Session VI Artificial Intelligence
Simulation Aides in Comparison between Different Methodology of Field Oriented Control of Induction Motor Based on Flux and Speed Estimation Ahmed. F. Abd El-Halim (Sidi Kerier Petrochemical Alexandria, Egypt) Mohamed . M. Abdulla and Ibrahim. F. El-Arabawy (Alexandria University, Egypt)	Fuzzy-Based Framework for Enterprise Resource Planning System Selection Abd El-Fatah A.Hegazy (Arab Academy for Science and Technology, Egypt) , Mahmoud El-Battah (Modern University For Technology & Information, Egypt) and Mona Kadry (Arab Academy for Science and Technology, Egypt)
Practical Methodology of Control and Protection of Field Oriented Induction Machine Using Digital Signal Processing Ahmed. F. Abd El-Halim (Sidi Kerier Petrochemical Alexandria, Egypt) and Mohamed . M. Abdulla and Ibrahim. F. El-Arabawy (Alexandria University, Egypt)	Satellite Image Encryption Using Neural Networks Backpropagation I. A. Ismail (Zagazic University, Egypt), Galal H. Galal-Edeen, Sherif Khattab, and Mohamed Abd Elhamid M. El Bahtity (Cairo University, Egypt)

11:00 Coffee Break

DAY 3-Monday October 15th, 2012 (Cont'd)

11:30 - 1:30 Two Parallel Sessions

Session VII Software Engineering	Session VIII Image Processing and Pattern Recognition
Chairs: Prof. Dr. Shawkat Guirguis and Dr. Mohamed Kholief	Chairs: Prof. Dr. Taher El-Sonny and Prof. Dr. Khaled Mahar
Novel Sensitive Object Oriented Cohesion Metric Safwat M. Ibrahim, Sameh A. Salem, Manal A. Ismail and Mohamed Eladawy (Helwan University, Egypt)	A Non-Linear Model For Fingerprints Matching Based On Minutiae-Core Pairs Interaction Khaled Ahmed Nagati (The British University, Egypt)
Software Testing Suite Prioritization Using Multi-Criteria Fitness Function Amr AbdelFatah Ahmed (Alexandria High Institute of Engineering and Technology, Egypt), Mohamed Shaheen and Essam Kosba (Arab Academy for Science and Technology, Egypt)	Parameter Determination Of Support Vector Machine Using Scatter Search Approach Mohammed H. Afif, Abdel-Rahman Hedar ,Taysir H. Abdel Hamid and Yousef B. Mahdy (Assiut Univ, Egypt)

Session VII Software Engineering	Session VIII Image Processing and Pattern Recognition
Bug Fix-Time Prediction Model Using Naïve Bayes Classifier Walid Abdelmoez, Mohamed Kholief, and Fayrouz M. Elsalmy (Arab Academy for Science and Technology, Egypt)	A Steganographic method based on DCT and new quantization technique Ahmed Saber Sakr, Hani Mohamed Ibrahim, Hatem M. Abdulkader and Mohamed Amin (Menoufia University, Egypt)
	Utilizing Support Vector Machines in Mining Online Customer Reviews Taysir Hassan A. Soliman, (Assiut University, Egypt) , Mostafa A. Elmasry (Fayoum University, Egypt) and Abdel Rahman Hedar and M. M. Doss (Assiut University, Egypt)
	Scene Analysis Under Closed World Assumption Nabil Hassan (WVS Tubman College, Liberia)

14:00 Lunch

End of ICCTA 2012 Activities

ICCTA 2012 Committees

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