



28th International Conference on Computer Theory and Applications

ICCTA 2018

30 October - 1 November 2018 Alexandria, Egypt

Conference Program

Day 1

Tuesday, October 30th, 2018

DAY 1 - Tuesday, October 30th, 2018

Venue: AASTMT Presidency Building, AbuQir

09:30 Registration

10:30 Opening Session

"Recent Technology Trends"

H.E. Prof. Dr. Yousry El Gamal

Former Minister of Education President, Computer Scientific Society

11:30 Coffee Break

12:00 Keynote Speech

Microsoft Presentation

Mr. Khaled Abdel Kader

General Manager, Microsoft Egypt

12:45 Keynote Speech

"Autonomous and Connected Electric Vehicles Deployment in Smart Cities"

Prof. Dr. Hussein Mouftah

Tier 1 Canada Research Chair and Distinguished University Professor

School of Electrical Engineering and Computer Science University of Ottawa, Ottawa, Ontario, Canada

DAY 1 - Tuesday, October 30th, 2018 (Cont'd) Venue: AASTMT Presidency Building, AbuQir

13:30 Keynote Speech

"Evaluating a System's Effectiveness with Approximate Data"

Prof. Dr. Michael Gr. Voskoglou

Professor Emeritus of Mathematical Sciences School of Technological Applications Graduate Technological Educational Institute of Western Greece, Greece

14:15 Keynote Speech

Knowledge Engineering Paradigms in Smart Education: Methodologies, Applications and Challenges

Prof. Dr. Abdel-Badeeh M. Salem

Professor of Computer Science Head of Artificial Intelligence and Knowledge Engineering Research Labs

Faculty of Computer and Information Sciences
Ain Shams University, Cairo, Egypt

15:00 Lunch

End of ICCTA 2018 - Day 1 Activities

Day 2

Wednesday, October 31st, 2018

DAY 2 - Wednesday, October 31st, 2018

Venue: Farsi Hall, College of Engineering and Technology, AbuQir

9:30 - 12:00

Session I Cloud Computing, Big Data, and Security

Chairs: Prof. Dr. Ayman Abdel-Hamid and Prof. Dr. Ahmed Abou Elfarag

Full Papers:

CloudWar: A New Schema for Securing and Querying Data Warehouse Hosted in The Cloud

Kawthar karkouda, Ahlem Nabli, and Faiez Gargouri (University of Sfax, Tunisia)

Modified Elliptic Curve Cryptography in Wireless Sensor Networks Security

Mohamed Abd El Hafez Bakr, Amr Mohamed Mokhtar (Alexandria University, Egypt), and Ali El Sherbini Takieldeen (Delta University, Egypt)

Performance Comparison of Intrusion Detection Machine Learning Classifiers on Benchmark and New Datasets

Mohammed F. Suleiman (Teesside University, United Kingdom) and Biju Issac (Northumbria University, United Kingdom)

Session I Cloud Computing, Big Data, and Security

Unclonable key Generator Based on Chip signature and SRAM-PUF of ATmega328P chip

Amr Elmestekawi, Ashraf Tammam, and Hanady Issa (Arab Academy for Science, Technology and Maritime Transport, Egypt)

Secure Translation Using Fully Homomorphic Encryption and Sequence-to-Sequence Neural Networks

Michael Lahzi Gaid, Mohamed Waleed Fakhr, and Gamal Ibrahim Selim (Arab Academy for Science, Technology and Maritime Transport, Egypt)

Enhancing AES Algorithm with DNA Computing

Omar G. Abood (Alexandria University, Egypt), Saleh Mesbah (Arab Academy for Science, Technology and Maritime Transport, Egypt), and Shawkat K. Guirguis (Alexandria University, Egypt)

Evaluation of Virtual Machine Scheduling Algorithms within Cloud Environment

Nawel KORTAS and Habib YOUSSEF (University of Sousse, Tunisia)

Session I Cloud Computing, Big Data, and Security

Caching Techniques for Flight Delays Prediction in Big Data Using SparkR

Ahmed Elsayed, Mohamed Shaheen, and Osama Badawy (Arab Academy for Science, Technology and Maritime Transport, Egypt)

DAY 2 - Wednesday, October 31st, 2018 (Cont'd)

Venue: Farsi Hall, College of Engineering and Technology, AbuQir

12:00 Coffee Break

12:30 - 15:00

Session II Information Systems and Intelligent Systems

Chairs: Prof. Dr. Mohamed Shaheen and Prof. Dr. Mohamed Kholief

Full Papers:

Towards a Multidimensional Model for Terrorist Attacks Analysis and Mining

Firas Saidi (National School of Computer Sciences, Tunisia), Zouheir Trabelsi (UAE University, UAE), and Henda Ben Ghezala (Natinonal School of Computer Sciences, Tunisia)

Multi-step Ahead Time Series Prediction via Bagging Trees Based Neighborhood

Ahmed R. Elshami, Aliaa Youssef, and Mohamed W. Fakhr (Arab Academy for Science, Technology and Maritime Transport, Egypt)

Session II Information Systems and Intelligent Systems

Predictive Analytics for Loan Default in Banking Sector Using Machine Learning Techniques

Salma Khaled Shaheen and Essam ElFakharany (Arab Academy for Science, Technology and Maritime Transport, Egypt)

Short Papers:

A Modified Multinomial Platform Architecture for Computer Adaptive Testing (CAT)

Farida Orabi, Essam Kosba, and Walid AbdelMoez (Arab Academy for Science, Technology and Maritime Transport, Egypt)

Improving Performance of Robust and Efficient E-Learning Platform using Distributed Computing Technologies for Saudi Arabia's institutes

Hassen Hamdi (Taibah University, KSA - University of Sfax, Tunisia), Walid Dabour (Menoufia University, Egypt) and Maher Khemakhem (University of King Abulaziz, KSA - University of Sfax, Tunisia)

The Impact of Using Inbound Open Innovation Product Platforming by Egyptian SMEs on New Software Product Introduction

AbdelMalek Mohamed ElBarrawy (Savvy Arabia Company, Egypt)

Session II Information Systems and Intelligent Systems

Enhance Job Candidate Learning Path using Gamification

Lamiaa Mostafa (Arab Academy for Science, Technology and Maritime Transport, Egypt) and AbdelMalek Mohamed ElBarrawy (Savvy Arabia Company, Egypt)

Gamified Mathematics Learning for K 12

Mona Saad, Essam Kosba, and Khaled Eskaf (Arab Academy for Science, Technology and Maritime Transport, Egypt)

15:00 Lunch

End of ICCTA 2018 – Day 2 Activities

Day 3

Thursday, November 1st, 2018

DAY 3-Thursday November 1st, 2018

Venue: Farsi Hall, College of Engineering and Technology, AbuQir

9:30 - 12:00

Session III Computers in Industry and Scientific Computing

Chairs: Prof. Dr. Moustafa Hussein and Prof. Dr. Ahmed Farouk

Full Papers:

Modeling Municipal Solid Waste Management System with Consideration of the Informal Sector

Amr El-Banna, Noha M. Galal, and Aziz E. El-Sayed (Arab Academy for Science, Technology and Maritime Transport, Egypt)

Neuro Fuzzy DC-DC Converter

Mohamed Sherif Nabil (Arab Academy for Science, Technology and Maritime Transport, Egypt), Mohamed Misbah ElKhatib (Military Technical College, Egypt), and Ashraf Tammam (Arab Academy for Science, Technology and Maritime Transport, Egypt)

A New Approach for Pressure Sore Prevention

Ahmed Ezzet, Ahmed El-shenawy, and Ezz El-Din Zakzouk (Arab Academy for Science, Technology and Maritime Transport, Egypt)

Session III Computers in Industry and Scientific Computing

DNA Computing Modeling of HEMT transistor Noise Parameters

Roshdy AbdelRassoul, Abd El-Menem Abd El-Bary, and Aya Mohamed El-Ebshihy (Arab Academy for Science, Technology and Maritime Transport, Egypt)

Application of the Grey System Theory to Assessment with Approximate Data

Michael Gr. Voskoglou (Graduate Technological Educational Institute of Western Greece, Greece)

Numerical Solution of One Dimensional Generalized Thermoelastic Problem by Using Adomian's Decomposition Method and Laplace's Transform Method

Hamdy M. Youssef (Umm Al-Qura University, KSA) and Alaa A. El-Bary (Arab Academy for Science, Technology and Maritime Transport, Egypt)

Short Papers:

Application of Pattern Recognition Algorithms in Assessing Phytoequivalency of Phytomedicines using NMR Metabolomics Data: A Case Study of Artichoke

Amira Khattab (Arab Academy for Science, Technology and Maritime Transport, Egypt) and Mohamed Farag (Cairo University, Egypt - The American University in Cairo, Egypt)

Session III Computers in Industry and Scientific Computing

A Computer Simulator to Study the Effect of the Spiral Curves on Driver's Speed Behavior on Two-Lane Rural Highway

Mohmmed Foda (Arab Academy for Science, Technology and Maritime Transport, Egypt), Alfonso Montella (University of Naples, Italy), and Noureldin Sheta (Arab Academy for Science, Technology and Maritime Transport, Egypt)

12:00 Coffee Break

End of ICCTA 2018 Activities

ICCTA 2018 Committees

Honorary Chair

Prof. Dr. Ismail Abdel Ghafar Ismail Farag

President, Arab Academy for Science, Technology, and Maritime Transport (AASTMT), Egypt

Conference Chair

H. E. Prof. Dr. Yousry S. El-Gamal

Former Minister of Education President, Computer Scientific Society

Conference co-Chair

Prof. Dr. Alaa Abdel Bary

Vice President for Postgraduate Studies and Scientific Research, AASTMT

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Eng. Hassan Bakr, AASTMT, Alex., Egypt

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ICCTA 2018 Committees (Cont'd)

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Head of Marketing Unit, Postgraduate Studies and Scientific Research, AASTMT