29th International Conference on Computer Theory and Applications

ICCTA 2019

29-31 October 2019
Alexandria, Egypt

Conference Program
Day 1

Tuesday, October 29th, 2019
DAY 1 - Tuesday, October 29th, 2019
Venue: AASTMT Presidency Building, AbuQir

09:30 Registration

10:30 Opening Session

“ICT 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

“Smart University Reference Architecture”

Prof. Dr. Hossam Osman
Vice President of Information Technology Industry Development Agency (ITIDA), Egypt
ICT Minister Advisor for Technology Innovation, Electronics, and Training, Egypt

12:40 Keynote Speech

“Readiness for the Impact of Emerging Technologies”

Prof. Dr. Ahmed Tantawy
International Strategy and ICT Consultant
DAY 1 - Tuesday, October 29th, 2019 (Cont'd)
Venue: AASTMT Presidency Building, AbuQir

13:20 Company Presentation

"Integrated Technologies & Solutions for Digital Transformation"

Eng. Mahmoud Kassem
eSmartSoft Chairman and CEO

14:00 Keynote Speech

"How to Make IT Business Success by Academia?"

Prof. Dr. Satoshi Goto
Vice President, Egypt-Japan University of Science and Technology (E-JUST), Egypt

14:40 Keynote Speech

"Towards Building the Egyptian Artificial Intelligence Ecosystem"

Prof. Dr. Mohamed Aborizka
Dean, College of Computing and Information Technology, Heliopolis Campus
Arab Academy for Science, Technology & Maritime Transport, Egypt

15:15 Lunch

End of ICCTA 2019 - Day 1 Activities
Day 2

Wednesday, October 30th, 2019
### Session I
**Intelligent Applications, Embedded Systems, and Robotics**

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

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<th>Full Papers</th>
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<td>New Real Time (M-Bug) Algorithm for Path Planning and Obstacle Avoidance In 2D Unknown Environment</td>
<td>Ahmed Mohamed Mohsen, Maha Ahmed Sharkas, and Mohamed Saad Zaghloul (Arab Academy for Science, Technology and Maritime Transport, Egypt)</td>
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<td>Deep Learning Approach for Detecting Digital Elevation Model (DEM) Uncertainty to Enhance Assessment of Water Resources</td>
<td>Hanaa A. Sayed, Ahmed M. Sefelnasr, and Essam KH. Abd-Elmaged (Assiut University, Egypt)</td>
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<td>Fuzzy Knowledge Base System For Floating Car Data On SUMO</td>
<td>Eman Mahmoud, D. S. Abdul Minaam (Benha university, Egypt), and H. M. Abdul Kader (Menoufia University, Egypt)</td>
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<td>Intelligent Applications, Embedded Systems, and Robotics</td>
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<td>Signal Processing Framework for Interactive Architecture</td>
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<td>Eman S. Metwally, Khalid Eskaf, and Walid M. Abdlmoez (Arab Academy for Science, Technology and Maritime Transport, Egypt)</td>
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<td>A Decomposed and Feature-based Deep Learning Model for Power Load Forecasting</td>
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<td>Ahmed Saied El-Berawi and Mohamed Belal (Helwan University, Egypt)</td>
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Venue: Farsi Hall, College of Engineering and Technology, AbuQir

12:00 Coffee Break

12:30 Keynote Speech

“Artificial Intelligence Computing Paradigms in Smart Healthcare Informatics”

Prof. Dr. Abdel-Badeeh M. Salem
Professor of Computer Science
Founder and Head of Artificial Intelligence and Knowledge Engineering Research Labs (AIKERL)
Faculty of Computer and Information Sciences
Ain Shams University, Cairo, Egypt

13:10 Keynote Speech

“Private Blockchain Platforms for Business Education in Enterprise Architecture”

Prof. Dr. Rossitsa M. Yalamova
Associate Professor, Dhillon School of Business
University of Lethbridge, Alberta, Canada
DAY 2 - Wednesday, October 30th, 2019 (Cont’d)
Venue: Farsi Hall, College of Engineering and Technology, AbuQir

13:50 Keynote Speech

“Smart Sensors and Computer Devices for Agriculture, Food Production Process Control and Medicine”

Prof. Dr. Volodymyr Romanov
Head of Data Acquisition Systems, Department Glushkov, Institute of Cybernetics of Ukrainian National Academy of Sciences, Ukraine

14:30 Keynote Speech

“The Role of Modelling in Business Software Development: Case Study of Teaching and Industrial Practice in Zrenjanin, Serbia”

Dr. Ljubica Kazi
Vice Dean for Education, University of Novi Sad
Technical faculty “Mihajlo Pupin”
Zrenjanin, Serbia

15:15 Lunch

End of ICCTA 2019 – Day 2 Activities
Day 3

Thursday, October 31st, 2019
### Session II

**Cloud, High Performance Computing, and E-learning**

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

**Full Papers:**

- Enhanced Fuzzy AHP-TOPSIS for Cloud Service Selection
  
  Safia N. Mohallel, Ayman A. Abdel-Hamid, and Khaled A. Eskaf (Arab Academy for Science, Technology and Maritime Transport, Egypt)

- Hybrid Fault Tolerance Approach Based on Replication Impact Heuristic for Cloud Computing
  
  Eman AbdElfattah, Mohamed Elkawkagy, and Ashraf El-Sisi (Menoufia University, Egypt)

- Improving Opinion Mining in Social Networks Data
  
  Shaimaa Mahmoud, Mahmoud Hussein, and Arabi Keshk (Menoufia University, Egypt)

- Detecting Students Learning Styles and Knowledge Level in E-Learning Environment
  
  Norhan Kamal and Mohamed Abo-Rizka (Arab Academy for Science, Technology and Maritime Transport, Egypt)
Short Papers:

Data Layout Organization effect on Communication in Parallel Programs


12:00 Coffee Break
**Session III**

**Image Processing and Artificial Intelligence**

**Chairs:** Prof. Dr. Ossama Badawy and Prof. Dr. Khaled Mahar

**Full Papers:**

- **Automatic Classification of Gastrointestinal Diseases Based on Machine Learning Techniques**
  - Bahaa Rabi, Omneya Attallah, Mohamed S. Zaghlool, and Maha A. Sharkas (Arab Academy For Science, Technology and Maritime Transport, Egypt)

- **X-Ray Image Enhancement using Global Histogram Equalization**
  - Muhammad Hameed Siddiqi (Jouf University, Kingdom of Saudi Arabia)

- **A Novel Approach for Reducing RFID Uncertainty Using Variational Bayesian Inference**
  - Ahmed Yousif and Hatem M. Abdikader (Menoufia University, Egypt)

**Short Papers:**

- **A Deep Learning Approach for Text Generation**
  - Ahmed Elmogy (Prince Sattam Bin Abdelaziz University, Kingdom of Saudi Arabia), Belal Mahmoud, and Mohamed Salah (Cairo University, Egypt)
Session III
Image Processing and Artificial Intelligence

An Adaptive Approach to Enhance The Quality of Hazy Images

Madallah Alruwaili (Jouf University, Kingdom of Saudi Arabia)

15:00 Coffee Break

End of ICCTA 2019 Activities
ICCTA 2019 Committees

Honorary Chair
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President, Computer Scientific Society

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Vice President for Postgraduate Studies and Scientific Research, AASTMT

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Dr. Essam Kosba, AASTMT, Alex., Egypt.

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