



27th International Conference on Computer Theory and Applications

ICCTA 2017

28-30 October 2017
Alexandria, Egypt

Conference Program

Day 1

Saturday, October 28th, 2017

DAY 1 - Saturday, October 28th, 2017

09:00 Registration

10:30 Opening Session

“The Endless Opportunities of 3D Printing”

H.E. Prof. Dr. Yousry El Gamal

Former Minister of Education

President, Computer Scientific Society

11:30 Coffee Break

12:00 Keynote Speech

**“Computational Thinking Skills for Today and
Tomorrow’s Talent”**

Dr. Heba Saleh

Chairwoman – Information Technology Institute

Ministry of Communications and Information Technology

Egypt

13:00 Keynote Speech

“Smart Campus: Step Towards Smart Cities”

Dr. Abdel-Hamid Soliman

Associate Professor

Faculty of Computing, Engineering and Sciences

Staffordshire University – United Kingdom

14:00 Lunch

End of ICCTA 2017 - Day 1 Activities

Day 2

Sunday, October 29th, 2017

DAY 2 - Sunday, October 29th, 2017

9:00 - 11:30

Session I Image Processing and Pattern Recognition
Chairs: <i>Prof. Dr. Khaled Mahar and Prof. Dr. Mohamed Shaheen</i>
Enhancing The Capability of Color based CBIR by Voting of Color Histograms Ahmed S. Bakair, Taha M. Mohamed, and Rowayda A. Sadek (Helwan university, Egypt)
Segmentation Method for Myanmar Character Recognition Using Block based Pixel Count and Aspect Ratio Kyi Pyar Zaw and Zin Mar Kyu (University of Computer Studies, Myanmar)
Arabic Sign Language Recognition (ArSL) Approach Using Support Vector Machine Mohamed Arafa Ali, Mohamed Rabie Ewis, Gamal Eid Mohamed, Heba Hamdy Ali, and Hossam M. Moftah (Beni Suef University, Egypt)
Face Sketch Synthesis with Joint Training Model Weiguo Wan and Hyo Jong Lee (Chonbuk National University, Korea)

Session I

Image Processing and Pattern Recognition

Irregular ROI-Based Tamper Detection and Recovery of Medical Images using Data Hiding

Shimaa S. Younes, Taha M. Mohamed, Rowyda A. Sadek (Helwan University, Egypt), and Khaled M. Elsayed (Cairo University, Egypt)

Annotated Outdoor Image Compression Based on Sky Replacement

Khaled F. Hussain and Hanaa A. Sayed (Assiut University, Egypt)

DAY 2 - Sunday, October 29th, 2017 (Cont'd)

11:30 Coffee Break

12:00 - 14:30

Session II
Operating Systems, Security and Software Engineering
<i>Chairs: Prof. Dr. Ayman Adel and Dr. Walid Abdel Moez</i>
Turning a Highly Reliable, Self-Repairing μ -Kernel OS into a Multicore-Based OS Hatem A. EL-Azab (Arab Academy for Science, Technology and Maritime Transport, Egypt), Moheb R. Girgis (Minia University, Egypt), Essameldin F. Elfakharany, and Mohamed Elemam Shehab (Arab Academy for Science, Technology and Maritime Transport, Egypt)
Design and SystemC Implementation of Chaos-Based Enhancements for the Advanced Encryption Standard Fatma Sbiaa, Medien ZEGHID, and Mohsen MACHHOUT (University of Monastir, Tunisia)
Bug Localization Approach Based on Similar Bug Report, Stack Trace and Source Code Structure Kyaw Ei Ei Swe and Hnin Min Oo (University of Computer Studies, Myanmar)

Session II

Operating Systems, Security and Software Engineering

Improving Branch Coverage for White-box Testing

Myint Myitzu Aung and Kay Thi Win ((University of Computer Studies, Myanmar)

A Novel Model for Uncertainty Challenge in Software Release Planning

Asmaa H. Elsaid, Rashed K. Salem, Hatem M. Abdulkader, and Mohiy M.Hadhoud (Menoufia University, Egypt)

Multi secret Sharing Based on Hill Cipher and Blakley Secret Sharing

Mervat AA, Osama S. Younes, and Hatem S. Abdul-kader (Menoufia University, Egypt)

14:30 Lunch

End of ICCTA 2017 – Day 2 Activities

Day 3

Monday, October 30th, 2017

DAY 3-Monday October 30th, 2017

9:00 - 11:30

Session III AI and Industrial Applications
Chairs: Prof. Dr Amin Shoukry and Prof. Dr. Ossama Badawy
AHP Method for Selecting Emergency Care Key Performance Indicators Emna Ammar El Hadj Amor and Sonia Ayachi Ghannouchi (RIADI Laboratory-ENSI Manouba, Tunisia)
Predicting Train Derailments Using Vibration Sensors And Wireless Transmitters Mohga Maged Mostafa, Khalid Eskaf, and Osama Badawy (Arab Academy for Science, Technology and Maritime Transport, Egypt)
Machine Learning Approach for Big Data Classification Amira M. El-Mandouh (Beni Suef University, Egypt), Laila A. Abd-Elmegid (Helwan University, Egypt), Hamdi A. Mahmoud (Beni Suef University, Egypt), and Mohamed H. Haggag (Helwan University, Egypt)

Session III AI and Industrial Applications
<p>People Counting with Extended Convolutional Neural Network</p> <p>Htet Htet Lin and Kay Thi Win (University of Computer Studies, Myanmar)</p>
<p>Breast Cancer Subtype Classification using Clinical and Gene Expression Integration</p> <p>Ala'a El-Nabawy, Nahla Belal, and Nashwa El-Bendary (Arab Academy for Science, Technology and Maritime Transport, Egypt)</p>
<p>Improving Performance of Distributed Data Mining</p> <p>Ahmed Hamad, Sherine Nagy Saleh, and Ahmed Abouelfarag (Arab Academy for Science, Technology and Maritime Transport, Egypt)</p>

11:30 Coffee Break

End of ICCTA 2017 Activities

ICCTA 2017 Committees

Conference Chair

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

Former Minister of Education

President, Computer Scientific Society

Honorary Chair

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

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