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| CV | Rana Fareed Ghani Al_Tuma (PhD.) Assistant Professor University of Technology Department of Computer Science |
| Address, Email, and Phone No. | Department of Computer Science, University of Technology, Al-Sinaa' Street, Baghdad-Iraq. Email: 110016@uotechnology.edu.iq |
| Education | |
| <ul style="list-style-type: none"> • Ph.D. Computer Science- Computer networks Dissertation: Quantum Computing Based Routing Algorithms Department of Computer Science / University of Technology / 2006 • MSc. Computer Science- Image processing Thesis: "Cellular Automata for Image Analysis" Department of Computer Science / University of Technology / 2001 • BSc. Computer Science University of Technology / 1997 | |
| Work experience | |
| Teaching <ul style="list-style-type: none"> • Assistant Professor at Department of computer Sciences- University of Technology Since April 2010 till Now. • Lecturer at Department of computer Sciences - University of Technology Since June 2006 till April 2010. • Assistant lecturer at Department of computer Sciences -University of Technology Since July 2001 till June 2006. Management <ul style="list-style-type: none"> • Director of Computer Center – University of Technology since June 2015-till now. • Deputy Dean for Scientific Affairs and Post-Graduation from September 2011 till November 2012. • Head of Information System Branch (College), Department of Computer Science (School) University of Technology from June 2006 till September 2011. • Director of laboratories at Computer Science Department from 2002 till 2006. | |

Other activities

- Supervisor of number of thesis and dissertations.
- MSc. and PhD Examiner.
- Supervisor of more than thirty B.Sc. projects 2006-2016.
- Member of The Consultant Committee for the project of The National Center of Languages and Translation- 2012.
- Participating and attending many conferences and workshops.
- Member of number of committees at Dept. of computer sciences 2001-2016.
- Reviewer of many journals and conferences.

Certifications and Training Programs

- Teaching Certification / University of Technology /Baghdad – Iraq, 2001
- Cisco Certification – CCNA, 2009.
- Workshop for Preparation of Curricula at Berlin Technical University-ZIHK, Germany, September 2010.
- Training Academic program Computer Science and Electronic Engineering School- University of Essex-UK, September 2014.

Publications

- Abdulhadi, S., Al-Tuma, Rana F. G., "Objective Quality Assessment of 3D stereoscopic Video Based on Motion Vectors and Depth Map Features", 7th International Conference for Computer Science and Electronic Engineering (CEECS2015), United Kingdom, September,2015.
- Abdulhameed S., Salih, H., Al-Tuma, Rana F. G., "Analyze Feature Extraction for Audio Signal with Six emotions Expression", International Journal of Engineering and advanced technology, ISSN. 2249-8958, Volume 4 Issue 6, August 2015.
- Mohammed, M., AbdulMajid M., Mustafa ., Al-Tuma, Rana F. G., " CPU Thread Prioritization Using a Dynamic Quantum Time Round-Robin Algorithm, Malaysian Technical Universities Conference on Engineering and Technology, October 2015.
- Mohammed, M., AbdulMajid M., Mustafa ., Al-Tuma, Rana F. G., "Queuing Theory Study Of Round Robin Versus Priority Dynamic Quantum Time Round Robin Scheduling Algorithms" , Software Engineering and Computer Systems (ICSECS), 2015 4th International Conference on , August, 2015.
- Abdulhameed S., Salih, H., Al-Tuma, Rana F. G., "Facial Emotion Expression Extraction Based on Eigen face for 3D video", proceeding of First Israa university international engineering conference, Jordan, April-2015.
- Nima, Z., Al-Tuma, Rana F. G., "Quality Test for 3D Video Streaming System

over WLAN", 7th International Conference for Computer Science and Electronic Engineering (CEEC2015), United Kingdom, September, 2015.

- Nima, Z., Al-Tuma, Rana F. G., "Kinect 3D Point Cloud Live Video Streaming" , International Conference on Communication, Management and Information Technology (ICCMIT 2015), Journal of Procedia Computer Science ELSEVIER, Czech Republic, 2015.
- Abdulhadi, S., Al-Tuma, Rana F. G., "3D Face Recognition Using Pose Invariant Nose Region Detector", 6th International Conference for Computer Science and Electronic Engineering (CEEC2014), United Kingdom, 2014.
- Abdulhadi, S., Al-Tuma, Rana F. G., "Robust Alignment of salient Facial Regions for Recognition of 3-D Partial Faces Scans", 2nd International conference on electronic Design (ICED), IEEE, 2014.
- Abdulhadi, S., Al-Tuma, Rana F. G., "Tip Detection Using Shape Index and Energy Effective for 3d Face Recognition", International Journal of Modern Engineering Research (IJMER), Volume 3, Issus 5 September _October 2013.
- Rahma, A., Al-Tuma, Rana F. G., Athab S., "Multi Pattern Search Algorithm (MPSA) for Motion Estimation", Al-Mansour Journal No. 13, 2010.
- Al-Tuma, Rana, "A Proposed Modification on the Four Way Handshake Protocol for Wireless Network Security", Babylon Journal, 2010 .
- Al-Tuma, Rana, "Quantum Simulated Annealing Algorithm", Engineering and Technology Journal, University of Technology, Vol.28, No.10, 2010.
- Al-Tuma, Rana F., Kareem, A., " Panoramic Image Construction Using Edge Pixel Connectivity", 1st Computer Science Conference Proceeding, Computer Science Department, University of Technology, 2010.
- Al-Tuma, Rana F., Kareem, A., "Multi Focus Image Fusion Using Statistical Approach", Engineering and Technology Journal, University of Technology, Vol. 28, No. 2, 2010.
- Al-Tuma, Rana F., Kareem, A., "Data Fusion Approach for Image Noise Removing", 1st Scientific Conference Proceeding, Iraqi Association of Information Technology, 2009.
- Al-Tuma, Rana F. G., Abdulwahab, H., "Quantum Description of Curve Cryptography Technique to Implement Key Distribution system", Iraqi Journal of Information Technology, Vol. 2, No. 1 2008.
- Al- Tuma, Rana F. G., Sadiq, Ahmed, "Quantum improvement on Dijkstra's Algorithm for computer Network Routing", Al-Anbar Journal, Vol. 2, No.1, Al-Anbar University, 2008.

Skills

Technical

- Programming skills: C++, Matlab, C#.
- Technique: Microsoft Visual Studio
- Applications: Microsoft Office.
- Operating Systems: Windows, Linux

Teaching Modules

- Undergraduate study
 - Operating System 2006-2011
 - Windows Programming 2002
 - C++ Programming 2011-2015
 - Object Oriented Programming 2011-2015
 - Data Structures 2002-2006
- Graduation study
 - Computer Networks 2013-2016
 - Multimedia 2012-2014
 - Operating System 2013-2016
 - Computer Architecture 2007-2008