MOHAMED HESHMAT

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PROFILE

He is a highly skilled and accomplished professional in the field of Computer Science and Information Technology. He serves as the Head of the Information Technology Department at the Faculty of Computers and Artificial intelligence, Sohag University, and holds the position of the Chief Information Officer (CIO) at the same University. He had the position director of the Center for Electronic and Cognitive Services at Sohag University

He earned his Ph.D. in Computer Science in collaboration between Sohag University and Bauhaus-Universität Weimar, Germany, in 2011. His expertise spans multiple advanced areas, including Computer Graphics, Computer Vision, Image Processing, Computer Networks, and Artificial Intelligence. He has further enriched his knowledge with a Post-Doctorate from Bauhaus-Universität Weimar in 2016.

With 25 years of extensive teaching experience, Mohamed Heshmat is a highly skilled and passionate educator committed to inspiring students and cultivating a lifelong love for learning. His expertise lies in promoting research-driven assignments, enhancing educational quality, and contributing with integrity to evaluation and developmental initiatives in the academic field.

Personal Data

Date of birth: Mar 20rd, 1972
Marital status: Married
Nationality: Egyptian

EDUCATION

◆ **Associate Professor** -Faculty of Computers and Artificial Intelligence Sohag university ,(2022- Now)
◆ **PH.D –** Computer Vision- computer Science Department -Faculty of Science.(Sohag University-in collaboration between Sohag University and Bauhaus-Universität Weimar, Germany, (2011).
◆ **Master** - Computer Science - Computer Science Department Faculty of Science. (sohag University) (2002).
◆ **Bachelor** - Computer Science and math at the faculty of Science (Sohag University) (1994).

WORK EXPERIENCE

- Associate Professor Faculty of Computers and Artificial Intelligence Sohag university. 2022-Now
- Post Doctor Mission -Bauhaus-University Weimar, faculty of Media, Germany-2016.
- Assistant professor- Faculty of Computers and Artificial Intelligence, Sohag University 2011-2022.
- Head of the Information Technology Department, Faculty of Computers and Artificial Intelligence, Sohag University, 2022-.2023.
- Director of the Center for Electronic and Cognitive Services, Sohag University 2021-٢٠٢٤.
- Children's University Coordinator, Sohag University 2018-2022
- Sohag University Portal Manager 2011- 2021
- IT Unite Manager Faculty of Science, Sohag University 2012- 2015
- Lecturer-(Phd student), Faculty of Science, Sohag University 2002-2006

PROFESSIONAL ACTIVITIES

- Training of Trainers (TOT), Supreme Council of Universities, Egypt
- Lecturer at National Egyptian E-Learning University(ELUU)
- Member of Information Technology Department, Faculty of Computers and Artificial Intelligence, Sohag University,

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SKILLS

- Project management
- Strong decision
- maker Complex
- problem solver
- Creative design
- Innovative Ability to work under pressure and keeping team work spirit.

Languages

Arabic
Germany
English.

CONTINUED PROFESSIONAL ACTIVITIES

- Participated in the Webinar of Online " Digital Transformation in hair Education" , DAAD Kairo Akademie
- Attended the professional development course of "Publishing in the English language academic market for non-native speakers", Bauhaus-Universität Weimar, Germany
- Head of Huawei Academy, Sohag University
- Certified trainer on the basics of digital transformation and (TOT) from the Supreme Council of Universities, Egypt.
- 11th IEEE International Conference on Computer Engineering and Systems (ICCES 2016). Cairo, Egypt December 20-21, 2016(Best Paper Award).
- The Professional development course "Publishing in the English academic market for non-native
- 10th IEEE International Conference on Computer Engineering and Systems ,Cairo, Egypt , December 23-24, 2016.
- 3nd International Conference on mathematics and information Sciences. Luxer, Egypt. 2014
- Fourth International Conference on e-Learning Best Practices in Management, Design and Development of e-Courses: Standards of Excellence and Creativity, Manama, Bahrain, 2013
- 2nd International Conference on mathematics and information Sciences. sohag, Egypt. 2012
- International Conference on Cloud Computer, ITI, Cairo, Egypt, 2012
- workshop on "Proposal Writing". Sohag University and DAAD, sohag, Egypt , 2010

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TEACHING EXPERIENCE

- Software Engineering
- Web design
- Database
- Computer Architecture
- C++
- Computer Vision
- Computer Programming
- Algorithms
- Computer Networks
- Image Processing
- Internet Applications
- Artificial Intelligence
- Computer Graphics
- Cloud Computing
- Computer Animation
- Multimedia
- Android Programming

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PUBLICATIONS

- Hybrid Bag-of-Visual-Words and FeatureWiz Selection for Content-Based Visual Information Retrieval Web design, Bakheet, SAl-Hamadi, A., Soliman, E., Heshmat, M., Sensors,, 23(3), 1653, 2023

- Mohamed Heshmat, Video Encryption Technique Based on Hybrid Chaotic Maps and Multi-Operation keys, "Information Sciences Letters ", Volume 11, Issue 6 Nov. 2022.

- Omar Reyad, Hanaa M. Mansour, Mohamed Heshmat, Elnomery A. Zanaty, Key-Based Enhancement of Data Encryption Standard For Text Security, IEEE, National Computing Colleges Conference (NCCC), March 2021.

- 3. Mahmoud Mofaddel, Samy Sadek, Emaddeldeen Soliman, and Mohamed Heshmat. A survey on content-based visual information retrieval. International Journal of Engineering Research Technology 14:499-505, 2020.

- Mahmoud Mofaddel, Samy Sadek, Emaddeldeen Soliman, and Mohamed Heshmat. Adaptive multimodal feature fusion for content-based image classification and retrieval. Applie Mathematics Information Sciences (AMIS), 14:699-708, 2020.

- Walaa m. Abd-elhafiez, Mohamed Heshmat, Medical image encryption via lifting method, Journal of Intelligent & Fuzzy Systems, IOS Press, March 2020.

- Walaa M. Abd-Elhafiez, Wajeb Gharibi, Mohamed Heshmat, A novel color image compression method using the adaptive threshold, TELKOMNIKA Telecommunication, Computing, Electronics and Control, Vol. 18, No. 1, February 2020,

- Seham Elaw, Walaa M. Abd-Elhafiez, Mohamed Heshmat, A Comparison of New Video Face Detection methods Using HSV, HSL and HSI Color Spaces, IEEE, 2019 14th International Conference on Computer Engineering and Systems (ICCES), Dec. 2019

- Marghny h. Mohamed, Hosam E. Refaat, hanan H. Amin and Mahmed H. Abdellh, PFSG: Parallel Frequent SubGraphs by HoriVertical Partition using Cloud, International Journal of Informatics and medical data processing (JIMDP), Vo2, No 3 ,. PP 46-56, 2017

- Mohamed Heshmat. WM Abd-Elhafiez, M Girgis, S Elaw, Face identification system in video, 11th IEEE International Conference on Computer Engineering and Systems (ICCES), PP. 147-154, 2016

- Mohamed Heshmat. M Girgis, WM Abd-Elhafiez, S Elaw, An efficient scheme for face detection based on contours and feature skin recognition, 10th IEEE International Conference on Computer Engineering and Systems (ICCES). PP. 255-260 , 2015.

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PUBLICATIONS

- WM Abd-Elhafiez, Mohamed Heshmat, S. Elaw Efficient Method for Face Recognition and Its Role in Supporting E-Learning Systems, Fifth International Conference on e-Learning (econf), PP. 216-219, 2015.

- Walaa M Abdel-Hafiez, Mohamed Heshmat, Moheb Girgis. S. Elaw. A new face recognition scheme for faces with expressions, glasses and rotation International Journal of Computer Engineering & Technology (IJCET) .Volume 5. Issue , PP. 11-23, , April 2014.

- A.E. A. Elaraby, Hassan Badry Mohamed A. El-Owny, M. Heshmat, A. S. Abdel Rady, New Algorithm for Edge Detection in Medical Images Based on Minimum Cross Entropy Thresholding, JCSI International ournal of Computer Science Issues, Vol. 11, Issue 2, No 1, PP 196-200, March 2014

- A.E. A. Elaraby, Hassan Badry Mohamed A. El-Owny, M. Heshmat, A. S. Abdel Rady, New Algorithm for Edge Detection in Medical Images Based on Minimum Cross Entropy Thresholding, JCSI International Journal of Computer Science Issues, Vol. 11, Issue 2, No 1, PP 196-200, March 2014

- Walaa Mohamed Mohamed Heshmat, Moheb Girgis and Seham Elaw. A new Method for Face Recognition Using Variance Estimation and Feature Extraction, International Journal of Emerging Trends & Technology in Computer Science (IJETTCS), Volume 2, Issue 2, March, PP. 134-141, -April 2013

- A. E. A. Elaraby, El-Owny, Hassan Badry Mohamed A. M. Heshmat; M. Hassaballah, A. S. Abdel Rady. Edge Detection of Noisy Medical Images Based Mixed Entropy. Computer Engineering and Intelligent Systems, Vol.4, No 13, 2013, PP 97-106

- A. E. A. Elaraby, El-Owny, Hassan Badry M. Ahmed, M. Heshmat. M. Hassaballah and A. S. Abel Rardy, A Novel Algorithm for Edge Detection of Noisy Medical Images. International Journal of Signal Processing, Image Processing and Pattern Recognition Vol.6. No.6 , pp.365-374, 2013.

- WM Abdel-Hafiez, M Heshmat, Effectiveness of the Image/Video Compression and Its Role in upporting e-Learning Systems, Fourth International Conference on e-Learning" Best Practices in Management, Design and Development of e-Courses: Standards of Excellence and Creativity", 2013.

- Ahmed Elarab Hassan Badry Mohamed A. El-Owny AS Abdel Rady M. Heshmat Proposed Algorithm for Edge Detection in Biomedical Images based Numerical Approach, International Journal of Computer Applications (0975-8887) ,Volume 84 ,No 1, PP. 15-17, December, 2013.

- E.A. Zanaty, M. Hassan, M.H. Abd-Ellah, Samer E Shaheen and Chales A Wüthnch Low Cost system for 3D Points Acquisition Sohag Bulletin of Pure and Applied Science, Volume 13 PP 85-115, July, 2011,.

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PUBLICATIONS

- Y.B. Mandy, A Younes, M.A. Soliman. M.H. Abd-Eliah, A modified algorithm for computing the upper bound reliability of computer networks, Applied mathematics and computation ,160 (2),PP 523-538, 2005.
- 22. E. A. Zanaty, M. Hassan, M. Heshmat, An algorithm for data reduction in reverse. engineering Second international Conference on Intelligent Computing and Information System Faculty of Computer & information Sciences, 2005