Ahmed Mahmoud Hamad

Assistant Professor (Lecturer)

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PROFILE

An assistant Professor at information technology department, faculty of computers and information, Menoufia University. With over 18 years of experience in teaching students various computer science courses.
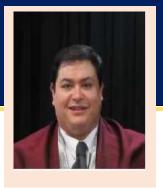
Personal Information

Name:	**Ahmad Mahmoud Ahmed Mahmoud Hamad**
Gender:	**Male**
Date of birth:	**30/10/1978**
Place of birth:	**Menoufia, Egypt.**
Marital status:	**Married**
Military Service:	**Completed**
Nationality:	**Egyptian**

Education

B.Sc. Degree	**B.Sc. in Information Technology with grade Very Good, Faculty of computers and information, Cairo University, May 2000.**
M.Sc. Degree	M.Sc. in Information Technology, Faculty of Computers and Information, Information Technology Department, **Cairo University**, March 2005. *Title*: "**Image Recognition Using Morphological operations**".
PH.D. Degree	PH.D. in Information Science, Graduate school of advanced integration science, **Chiba University, Japan**. March 2012. Title: "**A Robust Background Subtraction and Human Tracking Method**".

Career

Date	Occupational History
December 2002 – October 2005	Demonstrator, Information Technology Dept., Faculty of Computers and Information, **Menofia University**, **Egypt**.
November 2005 – April 2008	Teaching and Research Assistant, Information Technology Dept., Faculty of Computers and Information, **Menofia University**, **Egypt**.
May 2008 – September 2008	Researcher, **Research Center for Frontier Medical Engineering, Chiba University**, **Japan**.
October 2008 – March 2012	Ph.D. Candidate, Tsumura Laboratory, Graduate School of Advanced Integration Science, **Chiba University, Japan**.
August 2012-Present	Lecturer in Information Technology Dept., Faculty of Computers and Information, **Menofia University**, **Egypt**.
September 2014-2016	Delegated Lecturer in Arab Academy for Science, Technology & Maritime Transport.
September 2016- March 2017	Visiting researcher at Graduate School of Advanced Integration Science, Chiba University, Japan.

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General Research directions

- Image and video processing.
- Pattern Recognition.
- Computer Networks.

Research Interests

- Object detection in videos.
- Human fall detection.
- Human action recognition and analysis in videos.
- Motion detection and analysis in videos.
- Crowd analysis using computer vision techniques (crowd density estimation, event detection, people tracking. etc).
- Image retrieval.
- Transferring Videos on concurrent multipaths.

Certifications:

- Cisco Certified Network Associate (CCNA) Instructor.
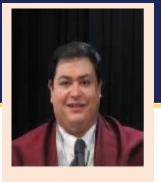- International Computer Driving License (ICDL).

Programming Skills

- **C/C++ programming.**
- **Python.**
- **Matlab.**

Experience

- **Graduation Project:** Image Recognition using Seven Invariant Moments – Grade *Very Good*.
- **Pre-Master Graduation Project:** Tumor Shape Recognition Using Mathematical Morphology – Grade *Good*.
- **Practical Experience:**
  - Cisco Networking Academy Program (CNAP) CCNA instructor in faculty of computers and information, Menuofia University Local CISCO academy supported by National telecommunication Institute (NTI) Regional Academy.

Administrative Experience

- The head of Cisco academy at Menoufia University, Faculty of computers and Information (MoHE 07).
- The Head of Quality Assurance Unit from 2013 till 2018. I was responsible for managing and leading the quality team to prepare the faculty to be accredited Egyptian National Authority for Quality Assurance and accreditation of Education.

- Member of the Faculty of computers and Information council 2018/2019.

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Teaching Experience

As a teaching assistant:
- Algorithms and flowcharts.
- Discrete mathematics.
- Data structure.
- Computer Introduction
- Computer programming.
- Computer Networks (Cisco certified as instructor)

As a lecturer:
- Computer Introduction.
- Data Structure.
- Image processing.
- Programming applications.
- Network fundamentals.
- Information technology Applications.
- Computer Networks.
- Digital Networking (Wide Area Networks Technologies).
- Information Networks.
- Selected topics in information technology.
- Information technology applications.

MSc and Ph.D Supervision

- Automatic People Counting in Crowded Scenes.
- Moving Cast Shadow Detection and Removal Based on Feature Selection.
- Automatic Fall Detection and Activity Monitoring for Elderly.
- Video Chunk Scheduling by Concurrent Multipath Trans Sketch based Image Retrieval based on discriminative features.
- Human Action Recognition using deep learning.

Review Work

- Reviewer at optical review journal, Japan.
- Reviewer at IJCI. International Journal of Computers and Information. Egypt.
- The Mediterranean Conference on Pattern Recognition and Artificial Intelligence 2016, Alegria.
- International Conference on Advanced Intelligent Systems and Informatics 2015, Egypt.

Publications

- Ahmed Mahmoud Hamad and Norimichi Tsumura, "Background Subtraction Based on Time-series Clustering and Statistical Modeling," *Optical Review,* vol. 19, issue 2, p. 110 – 120, March 2012.
- Ahmed Mahmoud Hamad and Norimichi Tsumura, "Background Updating and Shadow Detection Based on Spatial, Color, and Texture Information of Detected Objects," *Optical Review,* vol. 19, issue 3, p. 182 – 197, 2012.
- H. F. Bakr, A. M. Hamad, K. M. Amin, "Mask R-CNN for Moving Shadow Detection and Segmentation", IJCI . International Journal of Computers and Information.
- S. H. Ahmed, M. M. Hadhoud, K. E. Mustafa, A. M. Hammad, "New Approach for image Matching Using Morphological Operations", 21th National Radio Science conference, March 2004.
- Ahmed Hamad and Norimichi Tsumura, "Silhouette Extraction Based on Time-series Statistical Modeling and K-means Clustering," IEEE First Asian Conference on Pattern Recognition (ACPR'11), p. 584-588, November 2011.
- A. F. Gad, A. M. Hamad, K. M. Amin, "Crowd density estimation using multiple features categories and multiple regression models", 12th International Conference on Computer Engineering and Systems (ICCES), 2017.
- H Fetoh, A. M. Hamad, K. M. Amin, "A Framework for Video Transmission Scheduling Using Concurrent Multi-path Transfer", 14th International Conference on Computer Engineering and Systems (ICCES), 2019.
- H. F. Bakr, A. M. Hamad, K. M. Amin, "Detecting Moving Shadow using a Fusion of Local Binary Pattern and Gabor Features" , 13th International Conference on Computer Engineering and Systems (ICCES), 2018.
- H. Abdo, K. M. Amin, and A. M. Hamad, "Fall Detection Based on RetinaNet and MobileNet Convolutional Neural Networks", The 15th IEEE International Conference on Computer Engineering and Systems (ICCES), 2020 (Accepted).