



Faten A. Khalifa

Date of birth: 8 Mar 1987

Nationality: Egyptian

Gender: Female

CONTACT

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🌐 <https://scholar.google.es/citations?user=2abNp2cAAAAJ&hl=en&oi=ao>

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WORK EXPERIENCE

2024 – CURRENT Menoufia , Egypt

● **Assistant Professor** Information Systems Dept., Faculty of Computers and Information, Menoufia University

- Teaching undergraduate courses (Data mining, Database systems, System analysis and Design, Data analysis, Recommender systems).
- Examining and evaluating students.
- Supervising undergraduate and postgraduate students.
- Participation in the weekly postgraduate seminars.
- Involvement in various workshops and conferences inside and outside the working organisation.
- Volunteering to help others during workshops and motivating them.
- Doing some administrative works.

2016 – 2023 Menoufia, Egypt

● **Assistant Lecturer (Teaching Assistant) and Researcher** Information Systems Dept., Faculty of Computers and Information, Menoufia University

In addition to the previous work duties:

- Guiding the last-year-students through their graduation projects.
- Doing some administrative works.
- Participation in tasks related to final exams and results.

2009 – 2016 Menoufia, Egypt

● **Demonstrator and Researcher** Information Systems Dept., Faculty of Computers and Information, Menoufia University

- Preparing and achieving research assignments and presentations.
- Doing the required research work that is required for the Master degree and its publications.
- Programming and writing code to analyse data and produce results.
- Reading many scientific papers for writing and producing publications.
- Subscription in different research directions and projects.
- Participation in the weekly postgraduate seminars.
- Involvement in various workshops and conferences inside and outside the working organisation.
- Volunteering to help others during workshops and motivating them.
- Transferring expertise to other academic staff and learning from others.
- Cooperating with the teaching staff to prepare and teach undergraduate courses (Information Retrieval, Data Mining, Big Data, Recommender systems and GIS).
- Supervising and directing students during their academic study via sessions or office hours.
- Examining and Evaluating students.

EDUCATION AND TRAINING

JAN 2021 – AUG 2024 Menoufia, Egypt

● **Ph.D. of Computers and Information** Information Technology Dept., Faculty of Computers and Information, Menoufia University.

MAY 2011 – JAN 2016 Menoufia, Egypt

● **M.Sc. in Computers and Information** Information Systems Dept., Faculty of Computers and Information, Menoufia University.

Thesis title "Markerless Object Tracking for Augmented Reality". ([link](#))

SEP 2004 – JUL 2008 Menoufia, Egypt

B.Sc. of Computers and Information Information Technology Dept., Faculty of Computers and Information, Menoufia University.

- Very Good with honor degree (84.05%), The 1st rank of all colleagues.
- Graduation Project "Bioinformatics, clustering using self-organizing maps and similarity" (Grade 100%).

LANGUAGE SKILLS

MOTHER TONGUE(S): Arabic

Other language(s):

English (IELTS Score 7.0 in 2019)

Listening C1

Spoken production C1

Reading C1

Spoken interaction C1

Writing B2

French

Listening A2

Spoken production A2

Reading A2

Spoken interaction A2

Writing A2

Spanish

Listening A1

Spoken production A2

Reading A2

Spoken interaction A2

Writing A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

Publications

- **Faten. A. Khalifa**, Noura. A. Semary, Hatem. M. El-Sayed, and Mohiy. M. Hadhoud, "Local Detectors and Descriptors for Object Class Recognition," *International Journal of Intelligent Systems and Applications (IJISA)*, vol. 7, no. 10, 2015, pp. 12-18. ([link](#))
- **Faten. A. Khalifa**, Noura. A. Semary, Hatem. M. El-Sayed, and Mohiy. M. Hadhoud, "A Comparison of Local Detectors and Descriptors for Multi-Object Applications," *Proceedings of the International Conference on Intelligent Information Processing, Security and Advanced Communication (IPAC '15)*, 2015, pp. 23:1-23:5, Algeria, ACM. ([link](#))
- **Faten. A. Khalifa**, Noura. A. Semary, Hatem. M. El-Sayed, and Mohiy. M. Hadhoud, "Markerless Tracking for Augmented Reality Using Different Classifiers," *International Conference on Advanced Intelligent Systems and Informatics (AISI'2015)*, vol. 407, 2015, pp. 25-35, Egypt, Springer. ([link](#))
- **Khalifa, Faten**, Asmaa H. Ali, and Hatem Abdel-Kader. "Improved version of explainable decision forest: Forest-Based Tree." *IJCI. International Journal of Computers and Information* 10.1 (2023): 54-64. ([link](#))
- **Khalifa, Faten A.**, Hatem M. Abdelkader, and Asmaa H. Elsaid. "An analysis of ensemble pruning methods under the explanation of Random Forest." *Information Systems* 120 (2024): 102310. ([link](#))

RECOMMENDATIONS

References available on request.

JOB-RELATED SKILLS

Job-related skills

- Strong programming skills using a wide range of programming languages.
- Strong research skills and ability to efficiently read and write scientific research papers.
- Conceptual knowledge and deep understanding of :
 - Artificial Intelligence and XAI.
 - Machine and Deep Learning techniques
 - Big Data and data mining approaches
 - Advanced statistical methods such as Regression and Cluster Analysis
 - Database design
 - Object Orientated and data stuctures
 - Software Engineering and System Analysis
 - UML and Flowcharts
- Working under pressure
- Good Research Abilities
- Self-Motivated

QUALIFICATIONS

Qualifications

- Operating System: Windows and Linux as Administrator.
- Programming: Python, JAVA, C/C++, R, CLIPS, VHDL, Matlab/Simulink.
- Networking: CCNA, Fundamentals of LANs, WANs and Wireless networks, Network Simulator v.2(NS2).
- Database: Microsoft Access, SQL/SQL server, Oracle 10g, NoSQL, NewSQL.
- Graphics: 3DMax, Maya, OpenGL.
- GIS: ArcGIS, ArcMap, ArcCatalog, ArcToolbox.

FUTURE INTERESTS

Future interests

- Generative AI
- Prompt engineering
- Big data
- Data mining and information retrieval
- Data analytics, Machine Learning, Deep Learning
- Database, NoSQL, NewSQL
- Virtual and Augmented Reality
- Mobile Applications

CERTIFICATIONS

Certifications

Academic records ([link](#))
English language ([link](#))
Other certificates ([link](#))

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- Good communication skills gained through my experience as a teaching and research assistant.
- Good leading skills gained through my leadership in my graduation project.
- Ability to work in groups.