

# Dr. Eng. Ahlem ABOUD

**Nationality:** Tunisian

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**Google Scholar:** h-index = 4, i-index = 2 (2023)

<https://scholar.google.com/citations?user=TT9DTbYAAAAJ&hl=en>

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## EDUCATION AND TRAINING

### Doctorate in Computer Science

*Higher Institute of Computer Science and Communication Techniques* [2016 – 2022]

**Address:** 4054 Hammam Sousse (Tunisia)

**Website:** <http://www.infcom.rnu.tn>

### National Engineering Diploma in Computer Science, Web Technology and Multimedia

*Higher Institute of Informatics and Multimedia of Sfax (ISIMS)* [2012 – 2015]

**Address:** Technological center of sfax ‘Sakiet Ezzit, 3021 Sfax (Tunisia)

**Website:** <http://www.isimsf.rnu.tn>

**Field(s) of study:** Information and Communication Technologies: *Software and applications development and analysis*

**Final grade:** Software Engineer

### Bachelor's Degree in Information Technologies (IT)

*Higher Institute of Technological Studies of Mahdia (ISET)* [2008 – 2011]

**Address:** Hiboun, 5111 Mahdia (Tunisia)

**Website:** <http://www.isetma.rnu.tn>

### Professional Certificate, Google Data Analytics

*Coursera BambooGeeks Scholarship Program* [02/2022 – 04/2022]

**Address:** Online Course, Coursera,

### Baccalaureate in Economics and Management

*High School March 2, 1934 Ksar Hellal*

**Address:** Avenue Aghlabité, Ksar Hellal, 5070 Monastir (Tunisia)

## WORK EXPERIENCE

### Contractual Assistant Lecturer

*Higher Institute of Applied Sciences and Technology of Sousse (ISSATSO)* [2022 – Current]

**City:** Sousse,

**Country:** Tunisia

### Temporary Assistant Lecturer

*Private School of Engineering and Applied Technology (IHE-ESPITA-Sousse)* [2020 –2021]

**City:** Sousse

**Country:** Tunisia

### Research Internship

*School of Computing, Data Science and Cyber Analytics (DSCA) Research Group. Napier*

### **University [2019]**

**City:** Edinburgh, Scotland

**Country:** United Kingdom

### **Contractual Assistant Lecturer**

**Higher Institute of Computer Science of Mahdia (ISIMA), University of Monastir [2018 -2019]**

**City:** Mahdia

**Country:** Tunisia

### **Temporary Assistant Lecturer**

**Higher Institute of Computer Science of Mahdia (ISIMA), University of Monastir [ 2015 -2018]**

**City:** Mahdia

**Country:** Tunisia

## **DIGITAL SKILLS**

Operating system: Windows / Sufficient competence in Python and machine learning methodologies / scientific article reading / Web: HTML, CSS / Web Programming: HTML, CSS, Javascript (front-end), Java (back-end) / PHP Symfony / Microsoft Office, Microsoft Word, Microsoft Excel, Outlook, Facebook, Google / MATLAB (Only Optimization) / Mono and multi-objective optimization / Artificial Intelligence and Machine Learning concepts/ Artificial Intelligence related problem solving. / Bioinspired Techniques

## **PUBLICATIONS**

### **A Beta Multi-Objective Whale Optimization Algorithm [2023]**

IEEE ISCC 2023 (Rank C)

A. Aboud, N. Rokbani and A. M. Alimi, "A Beta Multi-Objective Whale Optimization Algorithm," *2023 IEEE Symposium on Computers and Communications (ISCC)*, Gammarth, Tunisia, 2023, pp. 876-879, doi: 10.1109/ISCC58397.2023.10217944.

### **DPb-MOPSO: A Novel Dynamic Pareto bi-level Multi-Objective Particle Swarm Optimization Algorithm [2022]**

Applied Soft Computing Journal (Impact Factor: 8.7)

Ahlem Aboud, Nizar Rokbani, Raja Fdhila, Abdulrahman M. Qahtani, Omar Almutiry, Habib Dhahri, Amir Hussain, Adel M. Alimi, DPb-MOPSO: A Dynamic Pareto bi-level Multi-objective Particle Swarm Optimization Algorithm, *Applied Soft Computing*, Volume 129,2022,109622, ISSN 1568-4946, <https://doi.org/10.1016/j.asoc.2022.109622>.

### **A Distributed Bi-behaviors Crow Search Algorithm for Dynamic Multi-Objective Optimization and Many-Objective Optimization [2022]**

Applied Sciences Journal (Impact Factor: 2.7)

About, A.; Rokbani, N.; Neji, B.; Al Barakeh, Z.; Mirjalili, S.; Alimi, A.M. A Distributed Bi-Behaviors Crow Search Algorithm for Dynamic Multi-Objective Optimization and Many-Objective Optimization Problems. *Appl. Sci.* **2022**, *12*, 9627. <https://doi.org/10.3390/app12199627>

### **A Distributed Multifactorial Particle Swarm Optimization Approach [2022]**

About, Ahlem; Rokbani, Nizar; Mirjalili, Seyedali; Qahtani, Abdulrahman M.; Almutiry, Omar; dhahri, habib; et al. (2022): A Distributed Multifactorial Particle Swarm Optimization Approach. TechRxiv. Preprint. <https://doi.org/10.36227/techrxiv.17260040.v1>.

### **A Quantum Beta Distributed Multi-Objective Particle Swarm Optimization Algorithm for Twitter Fake Accounts Detection [2022]**

About, Ahlem; Rokbani, Nizar; Mirjalili, Seyedali; Qahtani, Abdulrahman M.; Alharithi, Fahd S.; Almutiry, Omar; et al. (2022): A Quantum Beta Distributed Multi-Objective Particle Swarm Optimization Algorithm for Twitter Fake Accounts Detection. TechRxiv. Preprint. <https://doi.org/10.36227/techrxiv.19461080.v1>.

### **Dynamic Multi Objective Particle Swarm Optimization Based on a New Environment Change Detection Strategy [2017]**

ICONIP 2017 conference **(Rank A)**

About, A., Fdhila, R., Alimi, A.M. (2017). Dynamic Multi Objective Particle Swarm Optimization Based on a New Environment Change Detection Strategy. In: Liu, D., Xie, S., Li, Y., Zhao, D., El-Alfy, ES. (eds) Neural Information Processing. ICONIP 2017. Lecture Notes in Computer Science (), vol 10637. Springer, Cham. [https://doi.org/10.1007/978-3-319-70093-9\\_27](https://doi.org/10.1007/978-3-319-70093-9_27).

### **MOPSO for dynamic feature selection problem based big data fusion [2016]**

SMC 2016 conference **(Rank B)**

A. About, R. Fdhila and A. M. Alimi, "MOPSO for dynamic feature selection problem based big data fusion," *2016 IEEE International Conference on Systems, Man, and Cybernetics (SMC)*, 2016, pp. 003918-003923, doi:10.1109/SMC.2016.7844846.

## **NETWORKS AND MEMBERSHIPS**

**IEEE Student Member**, Region-8, Tunisia Chapter **[2015 – Current]**

**Member of Tunisian Order of Engineers (OIT)** **[2015 – Current]**

I am registered on the board of the Tunisian Order of Engineers (OIT) under the number: **46249**

## **LANGUAGE SKILLS**

- Arabic
- English
- French