



Amira Hamdi

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Date of birth: 13/03/1980

POSITION

Permanent Research. @ REGIM-Lab., National Engineering School of Sfax, University of Sfax, Tunisia,

Assistant Professor, National Engineering School of Gafsa, University of Gafsa, Tunisia.

WORK EXPERIENCE

- [2018 – Current] **Assistant Professor in Computer Science**
National Engineering School of Gafsa, University of Gafsa
City: Gafsa | Country: Tunisia
- [2013 – 2018] **Assistant in Computer Science**
Higher institute of business administration, University of Gafsa
City: Gafsa | Country: Tunisia
- [2008 – 2013] **Teacher**
Higher institute of business administration, University of Gafsa
City: Gafsa | Country: Tunisia
- [2002 – 2008] **Secondary School Teacher**
Metlaoui Secondary School
City: Gafsa | Country: Tunisia

EDUCATION AND TRAINING

- [2006 – 2017] **Doctoral Philosophy in Computer Science**
National Engineering School of Sfax, University of Sfax <https://enis.rnu.tn/>
City: Sfax | Country: Tunisia |
- [2003 – 2005] **Master degree in Computer Science**
National Engineering School of Sfax, University of Sfax <https://enis.rnu.tn/>
City: Sfax | Country: Tunisia |
- [1999 – 2002] **Bachelor's degree in Computer Science for Management**
Faculty of Economic and Management Sciences of Sfax <https://fsegs.rnu.tn/>
City: Sfax | Country: Tunisia |

PEDAGOGICAL, SOFT SKILLS AND CONTINUOUS TRAININGS

- [23/03/2021 – 25/03/2021] **Training of Trainers in Leadership, University of Gafsa, Tunisia.**

- [21/10/2021 – 30/10/2021] **Training of 4C UGAF advisors, University of Gafsa, Tunisia..**
- [10/2020 – 2020] **Staff Training Program as part of the NePRev Project - Setting up a multidisciplinary joint master degree dedicated to the next production revolution, Politecnico of Milano, Italy.**
- [28/10/2020] **Participation in the Info-Session on ICM mobility for academic staff, Erasmus+ office, Tunisia.**
- [03/12/2019 – 06/12/2019] **Training of Trainers in Entrepreneurship, University of Gafsa, Tunisia.**
- [27/11/2019] **ECo-C examen certification**
- [11/03/2019 – 15/03/2019] **Preparation for IBM/UVT certification - Artificial Intelligence, The Virtual University of Tunis, Tunisia.**
- [05/11/2019] **Training on project development for CBHE Erasmus+ projects according to ISO 21500 standards, University of Gafsa, Tunisia.**
- [2014 – 2015] **Pedagogical Training Session : Student group work-tutoring approach.**
- [2014 – 2015] **Pedagogical Training Session : Preparation of courses and tutorials.**
- [2013 – 2014] **Pedagogical Training Session : Managing a group of students.**
- [2013 – 2014] **Pedagogical Training Session : Teaching and learning.**
- [2013 – 2014] **Pedagogical Training Session : Pedagogy of higher education-the role of the teacher.**
- [2013 – 2014] **Pedagogical Training Session : Research strategy in the knowledge society.**
- [2013 – 2014] **Pedagogical Training Session : Preparation and correction of exams.**
- [02/2013] **English for Academic Purposes - Speaking in academic settings,National Engineering School of Sfax, University of Sfax, Tunisia.**
- [02/2013] **English for Academic Purposes - Listening in academic settings,National Engineering School of Sfax, University of Sfax, Tunisia.**
- [02/2013] **English for Academic Purposes - Writing Research Articles, National Engineering School of Sfax, University of Sfax, Tunisia.**
- [02/2013] **English for Academic Purposes - Reading Research Articles, National Engineering School of Sfax, University of Sfax, Tunisia.**
- [27/01/2009 – 29/01/2009] **Training program on distance learning with Moodle, The Virtual University of Tunis, Tunisia.**
- [07/2006] **Summer school on the use of new information technologies, University of Gafsa, Tunisia.**
- [04/2005] **Pedagogical Training Session, National Engineering School of Sfax, University of Sfax, Tunisia.**
- [13/04/2004 – 14/04/2004] **Pedagogical Training Session, National Engineering School of Sfax, University of Sfax, Tunisia.**

PARTICIPATION IN UNIVERSITY LIFE

- [2022 – 2023] **Member of the project UGAF-ANTI-COVID19 at the University of Gafsa.**
- [2020 – 2023] **Member of the project PAQ-MAGIE-UGAF at the University of Gafsa.**
- [2019 – 2023] **Member of the Erasmus+ cell at the University of Gafsa.**
- [2019 – 2021] **Director of 4C-ENIS center**
- [2019 – 2022] **Member of the project NePRev (Erasmus+ project).**

JOB-RELATED SKILLS

Artificial Intelligence, Machine Learning, Deep Learning

Swarm Intelligence

Ant Algorithms

Programming languages : Java, Java Script, C, C++, Matlab, Python

Data Science

Data Classification

LANGUAGE SKILLS

Mother tongue(s): Arabic

Other language(s):

French

LISTENING C2 WRITING C2

English

LISTENING A2 WRITING C2

SPOKEN INTERACTION A2

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

PUBLICATIONS

Intelligent hybrid algorithm for unsupervised data clustering problem.

Reference: Hamdi A., Monmarché N., Slimane M., Alimi A.M., 16th International Conference on Hybrid Intelligent Systems (HIS 16), Springer International Publishing, pp. 442-455, 2016.

FlyAntClass: Intelligent move for ants based clustering algorithm.

Reference: Hamdi A., Monmarché N., Slimane M., Alimi A.M., 13th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA 16), Agadir, Morocco, 2016.

FractAntBee algorithm for data clustering problem

Reference: Hamdi A., Monmarché N., Slimane M., Alimi A.M., International Journal of Computer Science and Information Security (IJCSIS), ISSN 1947 5500, Vol. 14, No. 7, 2016.

Fuzzy rules for ant based clustering algorithm.

Reference: Hamdi A., Monmarché N., Slimane M., Alimi A.M., International Journal of Advances in Fuzzy System, Article ID 8198915, 2016.

Spiders' behaviour for data clustering algorithm.

Reference: Hamdi A., Monmarché N., Slimane M., Alimi A.M., International Conference on Intelligent systems and applications (ISDA 15), ISBN 978-1 4673-8709-5, pp.254-259, 2015.

AntBee: clustering with artificial ants in hexagonal grid.

Reference: Hamdi A., Monmarché N., Slimane M., Alimi A.M., 10th International Conference on Artificial Evolution, (EA), pp. 462-427, ISBN 978 2-9539267-1-2, 2011.

Artificial ants for automatic classification.

Reference: Hamdi A., Monmarché N., Slimane M., Alimi A.M. Artificial Ants: from collective intelligence to real life optimization and beyond, chapter 13, ISTE-Wiley, pp. 265-290, 2010.

Bee-based algorithms: a review.

Reference: Hamdi A., Monmarché N., Slimane M., Alimi A.M., International Conference on Metaheuristics and Nature Inspired Computing (META'10), 27-31 October, Djerba, Tunisia, 2010.

TspClass: a novel data clustering approach by artificial ants.

Reference: Hamdi A., Monmarché N., Slimane M., Alimi A.M., International Conference on Metaheuristics and Nature Inspired Computing (META'10), 27-31 October, Djerba, Tunisia, 2010.

Fourmis artificielles et classification automatique. Monmarché.

Reference: Hamdi A., Monmarché N., Slimane M., Alimi A.M. Fourmis Artificielles2:nouvelles directions pour une intelligence collective, chapitre 1, Hermès-Lavoisier, pp. 21-47, 2009.

SwarmClass: a novel data clustering approach by a hybridization of an ant colony with flying insects.

Reference: Hamdi A., Monmarché N., Slimane M., Alimi A.M.,6th International Conference on Ant Colony Optimization and Swarm Intelligence (ANTS 2008), Lecture Notes in Computer Science, Springer Berlin / Heidelberg, vol.5217, pp. 411-412, 2008.