



Moez HAMMAMI

dr. Assistant Professor



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About me

Dr. Moez Hammami has twenty-four years of experience in teaching and research in the most prestigious universities and laboratories in Tunisia such as the National school of computer science of the University of Manouba and the higher institute of management of Tunis. He taught several subjects such as the theory of languages and automata, compiler techniques, theory of complexity of algorithms, web Programming, combinatorial optimization and soft-computing. He participated in the foundation of the research laboratory SOIE, and the Tunisian association of artificial intelligence, in which he held the position of treasurer and within the framework of which he participated in the organization of several national and international conferences. He published many papers in the field of combinatorial optimization and meta-heuristics which objective is to reduce costs and increase profits in many industrial and economic fields such as logistics, transport and airport management. He has supervised many master and PhD thesis.

Diplomas

- 2006 PhD. Higher Institute of Management, Tunis University
computer science for management
- 1999 Master Degree. Higher Institute of Management, Tunis University
computer modeling
- 1996 Bachelor degree. Higher Institute of Management, Tunis University
computer science applied to management
- 1992 Baccalaureate. high school Inb Abi Dhief La manouba
Mathematics

Teaching Experience

- 2008-2024 Assistant professor at the Higher Institute of management of Tunis
Computer science applied to management department
- 2005-2008 Lecturer at the Higher Institute of management of Tunis Computer
science applied to management department
- 2002-2005 Lecturer at the National school of computer science of Manouba
computer-science department
- 1999-2002 Lecturer at the Preparatory Institute for Engineering Studies of Tunis

courses taught

- Theory of languages and automata
- compiler techniques
- soft-computing and combinatorial optimisation
- algorithms and complexity
- Algorithmic and data structures
- Optimization and complexity for data science
- web programming

Professional Experience

- 1999 Participation in the implementation of the information system for the
Courts of Tunisia, within the Consulting and IT development Software
developer
- 1998 Realization of a truck tours optimization project for the French com-
pany France Distribution System, in collaboration with the Polytech-
nic school of Tunis Software Developer

Research areas

NP-Hard combinatorial optimisation problems

- Graph partitioning problem
- Cutting-stock problem
- Airport Gate assignment problem
- Bi-Level Multi Depot Vehicle Routing Problem
- Lowest Hamiltonien circuit in superimposed graphs problem.
- Patient Admission Scheduling problem.

used techniques

- Natural inspired meta-heuristics (genetic algorithms, particle swarm optimisation algorithms, ant colony optimisation algorithms, Honey bee optimisation algorithms, simulated annealing)
- Hyper-heuristics

PhD co-direction

- 2017-2022 Meta-heuristics for the optimization of Hamiltonian circuits in super-imposed graphs
defended by Kaoula Bouazzi in 29 Jun 2022 (National school of computer science, University of Manouba)
- 2012-2017 Optimizing the management of aircraft on the ground
defended by Hamadi Ghazouani in 10 october 2017 (National school of computer science, University of Manouba)
- 2011-2016 Drift Detection and Monitoring in Non-Stationary Environment
Defended by Imen Khamassi in 7 June 2016 (Higher institute of management, university of Tunis)

Affiliations

- 2018-2023 Member of SMART Research Laboratory
- 2015-2017 Founding member of COSMOS Research Laboratory and head of research pole for optimization under constraints
- 2000-2015 Member of SOIE Research Laboratory and founding member and treasurer of the Tunisian Association of Artificial Intelligence

Programming skills

Python , C, C++, HTML5, CSS, JavaScript, PHP, SQL

Software design methodologies

Merise, SCRUM, Unified Process.

Mastered languages

Arabic, English, French, Italian

Scientific Publications

- 2024 Imen Oueslati, Moez Hammami, Maha El Arbi, Lamjed Ben Said, Issam Nouaouri, Hamid Allaoui
A NSGAI based Hyperheuristic for multi-objective,scheduling problems 27Th International Conference On Multiple Criteria Decision Making (MCDM2024) 2 to 7 June 2024, Hammamet, Tunisia
- 2023 Imen Oueslati , Moez Hammami , Issam Nouaouri , Lamjed Bensaid , Hamid Allaoui
A honey bee mating optimization hyperHeuristic for patient admission scheduling problem" In proceedings of The 9th International Conference on Metaheuristics and Nature Inspired Computing META Marakech, Nov 01-04, 2023
- 2021 Khaoula Bouazzi, Moez Hammami, Sadok Bouamama
Application of an improved genetic algorithm to Hamiltonian circuit problem, , special issue: Knowledge-Based and Intelligent Information and Engineering Systems: Proceedings of the 25th International Conference KES2021, Volume 192, 2021, Pages 4337-4347
- 2021 Imen Oueslati, Moez Hammami
Honey Bee Cooperative HyperHeuristic, special issue: Knowledge-Based and Intelligent Information and Engineering Systems: Proceedings of the 25th International Conference KES2021 Volume 192, 2021, Pages 2871-2880

- 2019 Imen Khamassi, Moamar Sayed-Mouchaweh, Moez Hammami, Khaled Ghédira
A new combination of diversity techniques in ensemble classifiers for handling complex concept drift, book-chapter in learning from data streams in evolving environments, pp 39-61. Springer International Publishing, January 2019.
- 2018 K.Bouazzi, M.Hammami, S.Bouamama
CSOP Framework for Lowest Hamiltonian Circuit in Superimposed Graph. : Iser ISCTEM, New York, USA.
- 2016 Imen Khamassi, Moamar Sayed Mouchaweh, Moez Hammami, Khaled Ghédira
"Discussion and review on evolving data streams and concept drift adapting", Evolving Systems, Springer-Verlag Berlin Heidelberg 2016
- 2015 Khamassi, I., Sayed-Mouchaweh, M., Hammami, M., Ghédira, K
"Self-adaptive windowing approach for handling complex concept drift." Cognitive Computation Journal, Springer. vol.7, issue.6 (2015), Evolving Systems, Springer-Verlag Berlin Heidelberg 2016
- 2013 Hamadi.GHAZOUANI, Moez.HAMMAMI, Ouajdi.KORBAA
Solving airport gate assignment problem using genetic algorithms approach: 4th IEEE International Conference on Advanced Logistics and Transport (ICALT), At Valenciennes. DOI: 10.1109/ICALT.2015.7136615
- 2013 Hamadi.GHAZOUANI, Moez.HAMMAMI, Ouajdi.KORBAA
"Airport Gate Assignment problem:Mathematical formulation and resolution », ROIS 2013 : International Conference on Reasoning and Optimization in Information Systems, Hammam Sousse, Tunisia, 6-7 September 2013
- 2013 Imen Khamassi , Moamar Sayed-Mouchaweh , Moez Hammami , Khaled Ghédira
Ensemble classifiers for drift detection and monitoring in dynamical Environments", Annual Conference of the Prognostics and Health Management Society 2013
- 2013 Imen Khamassi , Moamar Sayed-Mouchaweh , Moez Hammami , Khaled Ghédira
Nouvelle méthode de détection de dérive basée sur la distance entre les erreurs de classification » 5e Journées Doctorales Journées Nationales MACS, Strasbourg : France (2013)
- 2011 Nesrine Said, Moez Hammami, Khaled Ghédira
"MulO-AntMiner: A New Ant Colony Algorithm for The Multi-Objective Classification Problem ", ICCSA 2011, Part II Lecture Notes in Computer Science (LNCS), 6783, pp. 594-609, Berlin Heidelberg (2011).
- 2011 Imen Khamassi, Moez Hammami, Khaled Ghédira
"Ant-Q Hyper-Heuristic Approach for solving 2-Dimensional Cutting Stock Problem" IEEE Symposium on Swarm Intelligence organized in IEEE Symposium Series in Computational Intelligence Paris, april 2011.
- 2007 Lotfi Derbali, Sadok Bouamama, Moez Hammami, Khaled Ghedira
"D3G2A: The Dynamic Distributed Double Guided Genetic Algorithm for the K-Graph Partitioning Problem", Parallel and Distributed Computing and Systems, November 19-21, 2007, Cambridge, MA, USA ISBN Hardcopy 978-0-88986-703-1.
- 2006 Moez Hammami, Khaled Ghédira
"Cooperation between Metaheuristics for the K-Graph Partitioning Problem", First workshop on Metaheuristics, Hammamet, November 2-4 2006.
- 2005 Moez Hammami, Khaled Ghédira
"COSATS, X-COSATS: Two multi-agent systems cooperating Simulated Annealing, Tabu Search and X-over operator for the K-Graph Partitioning Problem" Lecture Notes in Computer Science as part of the LNCS/LNAI series Volume 3684/2005, Pages: 647-653 ISBN 978-3-540-28897-8,

- 2005 Moez Hammami, Khaled Ghédira
"Cooperation between Simulated Annealing, Tabu Search, X-over operator and Kernighan and Lin Heuristic for the K-Graph Partitioning Problem" The 6th Metaheuristics International Conference, Vienna 22-26 August 2005.
- 2005 Moez Hammami, Khaled Ghédira
"The Tunneling Algorithm for the K-Graph Partitioning Problem" 17ème Congrès Mondial IMACS, Calcul Scientifique, Mathématiques Appliquées et Simulation, Paris 11-15 July 2005.
- 2005 Moez Hammami, Khaled Ghédira
"COSATS: A new Cooperation Model between Simulated Annealing and Tabu Search for the K-Graph Partitioning Problem", The Fourth IEEE International Workshop on Soft Computing as Transdisciplinary Science and Technology, Muroran, Japan, May 25-27, 2005
- 2005 Moez Hammami, Khaled Ghédira
«Tabu Search for the k-Graph Partitioning Problem» Proceedings of the ACS/IEEE International Conference on Computer Systems and Applications (AICCSA'03) Tunis, Tunisia, July 14-18, 2003

References

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