





Hichem Haouassi

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PROFILE

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LANGUAGE

Arabe 

French 

English 



Studies

2006 - 2012
Batna, Algérie

Computer engineer

Université of Batna

2001 - 2004
Batna, Algérie

Magister

Université of Batna

2006 - 2012
Batna, Algérie

Doctorat



Profesional experience

University center of Khenchela

Maitre assistant
Date : 2004-2012

University Abbas Laghrour of Khenchela, Algeria

Maitre de conference classe B
Date : 2012-2019

University Abbas Laghrour of Khenchela, Algeria

Maitre de conference classe A
Date : 2019-2024

University Abbas Laghrour of Khenchela, Algeria

Professor
Date : Since 2024

→ International publications

- Mahdaoui, R., Mouss, L. H., Haboussi, A., Chouhal, O., **Haouassi, H.**, & Maarouk, T. M. (2019). A Temporal Neuro-Fuzzy System for Estimating Remaining Useful Life in Preheater Cement Cyclones. *International Journal of Reliability, Quality and Safety Engineering*, 26(03), 1950012.
- **Hichem, H.**, Rafik, M., & Mesaaoud, M. T. (2018). PSO with crossover operator applied to feature selection problem in classification. *Informatica*, 42(2).
- **Hichem Houassi**, Toufik Mesaoud Maarouk and Rafik Mahdaoui «IP Address Lookup in an IP Router Based On a Reorganized Binary Prefixes Value Tree (RBPVT) », *International Journal of Computer Networks and Applications*. Volume 3, Issue 1, January – February (2016).
- **Hichem Houassi** and Azeddine Bilami «IP Address Lookup Algorithm using a dynamic content binary trie », *International Review on Computers and Software (I.RE.CO.S.)*, Vol. 5, n.3, Mai 2010
- **Hichem, H.**, & Azeddine, B. (2010). IP address lookup for Internet routers using cache routing table. *IJCSI*, 35.
- Boussalem, M., Aitouche, S., Hamouma, M., **Haouassi, H.**, Rahab, H., & Bekhouche, A. (2023). BBMA-MDS: Binary Biology Migration Algorithm for Multi-Document Text Summarization. *Revue d'Intelligence Artificielle*, 37(5). <https://doi.org/10.18280/ria.370506>
- **Haouassi, H.**, Bekhouche, A., Rahab, H. et al. Discrete Student Psychology Optimization Algorithm for the Word Sense Disambiguation Problem. *Arab J Sci Eng* (2023). <https://doi.org/10.1007/s13369-023-07993-5>.
- Bekhouche, M., **Haouassi, H.**, Bakhouche, A., Rahab, H., & Mahdaoui, R. Improved binary crocodiles hunting strategy optimization for feature selection in sentiment analysis. *Journal of Intelligent & Fuzzy Systems*, (Preprint), 1-21. (2023).
- Rahab, H., **Haouassi, H.** & Laouid, A. Rule-Based Arabic Sentiment Analysis using Binary Equilibrium Optimization Algorithm. *Arab J Sci Eng* **48**, 2359–2374 (2023).
- Rahab, H., **Haouassi, H.**, Souidi, M.E.H. *et al.* A Modified Binary Rat Swarm Optimization Algorithm for Feature Selection in Arabic Sentiment Analysis. *Arab J Sci Eng* (2022). <https://doi.org/10.1007/s13369-022-07466-1>
- Mohammed El Habib Souidi, **Hichem Houassi** , Makhoul Ledmi, Toufik Messaoud Maarouk, Abdeldjalil Ledmi, A Discrete Particle Swarm Optimization coalition formation algorithm for Multi-Pursuer Multi-Evader Game. *Journal of Intelligent & Fuzzy Systems*, 2022
- Abdelaali Bekhouche, **Hichem Haouassi**, Mahdaoui Rafik, Hichem Rahab, Makhoul Ledmi. (2022). ADCSA-WSD: Adapted discrete crow search algorithm for word sense disambiguation. *Revue d'Intelligence Artificielle*, Vol. 36, No. 1, pp. 131-138.
- **Haouassi, H.**, Mahdaoui, R., Chouhal, O., & Bekhouche, A. (2022). An efficient classification rule generation for coronary artery disease diagnosis using a novel discrete equilibrium optimizer algorithm. *Journal of Intelligent & Fuzzy Systems*, 43(3), 2315-2331.
- **Hichem, H.**, Rafik, M., & Ouahiba, C. (2022). New discrete crow search algorithm for class association rule mining. *International Journal of Swarm Intelligence Research (IJSIR)*, 13(1), 1-21.

- Malik, M. M., & **Haouassi, H.** (2022). Efficient sequential covering strategy for classification rules mining using a discrete equilibrium optimization algorithm. *Journal of King Saud University-Computer and Information Sciences*, 34(9), 7559-7569.
- LEDMI Makhoulf, MOUMEN Hamouma, SIAM Abderrahim, **Hichem HAOUASSI**. A Discrete Crow Search Algorithm for Mining Quantitative Association Rules. *International Journal of Swarm Intelligence Research (IJSIR)*, 2021, vol. 12, no 4, p. 101-124.
- **Hichem, H.**, Elkamel, M., Rafik, M., Mesaaoud, M. T., & Ouahiba, C. (2022). A new binary grasshopper optimization algorithm for feature selection problem. *Journal of King Saud University-Computer and Information Sciences*, 34(2), 316-328.
- **Hichem Haouassi**, RAFIK Mahdaoui, et OUAHIBA Chouhal. A discrete equilibrium optimization algorithm for breast cancer diagnosis. *Intelligent Data Analysis*, 2023, vol. 27, no. 4, pp. 1185-1204, 2023

International Communications

- Hichem Houassi et Azeddine Bilami «Une Architecture Parallèle pour la Consultation des Tables de Routage IP », 5th International Conference: Sciences of Electronic, Technologies of Information and Telecommunications (SETIT'09) Mars, 2009, Tunisie.
- Hichem Houassi et Azeddine Bilami «Une architecture parallèle pour la consultation d'adresses IP », CITIC'09, Conférence Internationale des Technologies de l'Information et de la Communication, Mai, 2009, Université Ferhat Abbes de Sétif.
- Mahdaoui Rafik, Hayet mouss, Ouahiba chouhal, Ouahab kadri et Hichem houassi «La Surveillance Industriel Dynamique par les Systèmes Neuro-Flous Temporels : Application à un système de Production » 5th International Conference: Sciences of Electronic, Technologies of Information and Telecommunications (SETIT'09) Mars, 2009, Tunisie.
- Hichem Houassi et Azeddine Bilami «Une technique de recherche de route par une table de routage cache », First International Conference on Industrial engineering & Manufacturing, May, 2010, Université de Batna, Algérie.
- Hichem Houassi et Azeddine Bilami «Recherche de route dans un routeur par table cache », Colloque sur l'Optimisation et les Systèmes d'Information, Avril 2010, Université de Ouargla, Algérie.
- Hichem Houassi et Azeddine Bilami « IP address lookup for Internet routers using cache routing table », E-Medisys 2010 Third International Conference: E-Medical Systems, May, 2010, Maroc.
- Houassi Hichem, Mahdaoui Rafik, Marouk Toufik Mesaaoud, « Consultation d'adresses IP dans un routeur IP basée sur un arbre binaire réorganisé », Colloque sur l'Optimisation et les Systèmes d'Information, Mai 2015, Université d'Oran, Algérie.
- Mahdaoui Rafik, Chouhal Ouahiba, Marouk Toufik Mesaaoud, **Houassi Hichem**, Leila Hayet Mouss, «Temporal Neuro Fuzzy System for Fault Prognostic in Manufacturing System » International Conference on Applied Automation and industrial Diagnostic (ICAAID 2015)

- Amine, D., **Hichem, H.**, & Soumia, Z. (2022, October). Binary Archimedes Optimization Algorithm based Feature Selection for Regression Problem. In 2022 4th International Conference on Pattern Analysis and Intelligent Systems (PAIS) (pp. 1-7). IEEE. DOI: 10.1109/PAIS56586.2022.9946903
- Aicha Bouhantala, Rafik Mahdaoui, **Hichem Haouassi**, Ouahiba Chouhal, Slimi Abderahamane, Aoun amir, Leila hayet Mouss, Remaining useful life estimation by web services composition in industry 4.0 context, 2nd International seminar on industrial engineering and applied mathematics, University of Skikda, Algeria, 23 & 34 Octobre 2022.
- Rafik Mahdaoui, Aicha Bouhantala, Ouahiba chouhal, **Hichem Haouassi** and Leila hayet Mouss, A web application for faults detection of a solar water heating system in industry 4.0 context, 1st international conference on Materials Sciences And Technology, University Abbas Laghrour, Khenchela,, 2022. (MatScience-2022) <https://matscience2022.wixsite.com/uakh>
- Chouaib Maarouk , **Hichem Haouassi** , Karima Saidi , Hybrid Grey Wolf Optimizer and Elitism Genetic Algorithm for Multi-objective IoT Service Placement in Fog Computing, First international conference on advances in electrical and computer engineering ICAECE 2023, University of Tebessa, Algeria. Mai 2023.

National communications

- Benkhaled Sihem, **Haouassi Hichem**, Hemam Mounir, A quantum particle swarm optimization approach for feature selection in the data classification, RIF2019, Université Abdelhamid Mehri Constantine2, 2019.
- **Hichem Haouassi** et Azeddine Bilami « Une Architecture Parallèle pour la Consultation des Tables de Routage IP », JSIA'09. Les Journées Scientifiques sur L'informatique et ses applications, Avril, 2009, Université de 08 Mai 45, Guelma, Algérie.
- Mahdaoui Rafik, **Haouassi Hichem**, Chouhal Ouahiba, Rahab Hichem, Bekhouche Abdelaali and Mouss Hayet. Type 2 fuzzy logic for fault detection and diagnosis in solar heating system” MSE22, Université Abbas Laghrour Khenchela, 2022
- **Hichem Haouassi**, Rafik Mahdaoui, Ouahiba Chouhal. Machine Learning Model for Interpretable Wind Turbine Fault Prediction using Artificial Intelligence Approach, MSE22, Université Abbas Laghrour Khenchela, 2022.
- **Haouassi Hichem**, Mehdaoui Rafik, Chouhal Ouahiba « Student Academic Performance Prediction using Data Mining Techniques: A Case Study of Department of Mathematics and Computer Science at Abbas Laghrour University of Khenchela, Algeria” 3rd Conference on Informatics and Applied Mathematics, 21-22 Octobre 2020, Université 05 Mai 1945, Guelma.

- Chouhal Ouahiba, Mahdaoui Rafik, **Haouassi Hichem**, Anser Bachir, Foughali Selma and Mouss Hayet « Type 2 fuzzy logic approach to fault prediction in preheater cement cyclones », 2nd Conference on Informatics and Applied Mathematics, 12-13 June 2019, Université 05 Mai 1945, Guelma.

Chapter book

- Toufik Mesaoud Maarouk, Saidouni Djamel eddine, Rafik Mahdaoui and **Houassi Hichem**, « Interpretation of DD-LOTUS specification by C-DATA* », dans le livre : New trends in databases and information systems, Springer 2015. ISBN : 978-3-319-23201-0