

CURRICULUM VITAE



Personal information

- **Personal**
 - Dr. Zakaria LABOUDI
 - Associate professor, Mathematics & Computer Sciences department, University of Oum El Bouaghi, Algeria.
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- **Researcher identity**
 - Google Scholar: <https://scholar.google.com/citations?user=GxdXgf4AAAAJ&hl=fr>
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Education

- **Ph.D.'s degree** in Computer sciences
- **Master's degree** (MEng & MSc) in Computer sciences

Functions and Affiliations

- **Associate professor**, at the Department of Mathematics and Computer Sciences, University of Oum El Bouaghi, from 03/2017 to today
- **Assistant professor**, at the Department of Mathematics and Computer Sciences, University of Oum El Bouaghi, from 10/2009 to 03/2017
- **Head of domain**, at the Department of Mathematics and Computer Sciences, University of Oum El Bouaghi, from 10/2021 to today
- **Head of specialty**, at the Department of Mathematics and Computer Sciences, University of Oum El Bouaghi, from 12/2016 to 10/2021

Teaching modules

- Algorithms & data structures
- Operating systems
- Databases
- Web application development
- Algorithmic methods

International publications

- Ayadi, A., Saighi, A., Laboudi, Z. (2023). Multimedia Adaptation in Ubiquitous Systems: Literature Review, Critical Analysis and Future Trends. In: Laouar, M.R., Balas, V.E., Lejdel, B., Eom, S., Boudia, M.A. (eds) 12th International Conference on Information Systems and Advanced Technologies “ICISAT 2022”. ICISAT 2022. Lecture Notes in Networks and Systems, vol 624. Springer, Cham. https://doi.org/10.1007/978-3-031-25344-7_50
- Oubadi, S., Derdouri, L., Laboudi, Z. (2023). Clustering Algorithms for Wireless Sensor Networks: A Review. In: Laouar, M.R., Balas, V.E., Lejdel, B., Eom, S., Boudia, M.A. (eds) 12th International Conference on Information Systems and Advanced Technologies “ICISAT 2022”. ICISAT 2022. Lecture Notes in Networks and Systems, vol 624. Springer, Cham. https://doi.org/10.1007/978-3-031-25344-7_9
- Laboudi, Z., Moudjari, A., Saighi, A. et al. An adaptive context-aware optimization framework for multimedia adaptation service selection. *Neural Comput & Applic* 34, 14239–14251 (2022). <https://doi.org/10.1007/s00521-021-06644-w>
- Taouche, C., Belhadef, H. & Laboudi, Z. (2022). Palmprint Recognition System Based on Multi-Block Local Line Directional Pattern and Feature Selection. *International Journal of Information Technologies and Systems Approach (IJITSA, ISSN 1935 – 570X)*, 15(1).
- Benlaharhe Keltoum, Zakaria Laboudi, Nabila Nouaouria, Djamel Eddine Zegour. (2021). An ontology driven question answering system for fatawa retrieval. *Indonesian Journal of Electrical Engineering and Computer Science* 23(2).
- Laboudi Z., Moudjari A., Saighi A., Hamri H.N. (2021) Efficient Service Selection in Multimedia Documents Adaptation Processes. In: Djeddi C., Kessentini Y., Siddiqi I., Jmaiel M. (eds) *Pattern Recognition and Artificial Intelligence. MedPRAI 2020. Communications in Computer and Information Science*, vol 1322. Springer, Cham.
- Zertal, S., Batouche, M. C. & Laboudi, Z. (2020). A Novel Hybrid Optimization-Based Approach for Efficient Development of Business-Applications in Cloud. *International Journal of Information Systems in the Service Sector (IJISSS, ISSN 1935 – 5688)*, 12(4).
- Laboudi, Z. (2020). Efficient solutions of the density classification task in one-dimensional cellular automata: where can they be found?. *Complex systems (CS, ISSN 0891-2513)*, 29(3).
- Saighi, A., Laboudi, Z., Roose, P., Laborie, S. & Ghouli, N. (2020). On Using Multiple Disabilities Profiles to Adapt Multimedia Documents: A Novel Graph-Based Method. *International Journal of Information Technology and Web Engineering (IJITWE, ISSN 1554 – 1045)*, 15(3).

- A. Saighi and Z. Laboudi, "A novel self-organizing multi agent-based approach for multimedia documents adaptation," 2020 International Conference on Electrical, Communication, and Computer Engineering (ICECCE), IEEE(2020), pp. 1-6, doi: 10.1109/ICECCE49384.2020.9179378.
- S. Zertal, Z. Laboudi and S. Bechoua, "A Novel Ontology-based Approach for Describing Cloud Services," 2019 International Conference on Theoretical and Applicative Aspects of Computer Science (ICTAACS), IEEE(2019), pp. 1-8, doi: 10.1109/ICTAACS48474.2019.8988129.
- Laboudi, Z. & Chikhi, S. (2019). Computational mechanisms for solving the Density Classification Task by Cellular Automata. *Journal of Cellular Automata (JCA, ISSN 1557 – 5969)*, 14(1-2).
- Laboudi, Z. & Chikhi, S. (2019). New Solutions for the Density Classification Task in One Dimensional Cellular Automata. In: Chikhi S., Amine A., Chaoui A., Saidouni D. (eds) *Modelling and Implementation of Complex Systems. MISC 2018. Lecture Notes in Networks and Systems*, vol 64. Springer, Cham.
- Z. Laboudi, "An Effective Approach for Solving the Density Classification Task by Cellular Automata," 2019 4th World Conference on Complex Systems (WCCS), IEEE(2019), pp. 1-8, doi: 10.1109/ICoCS.2019.8930805.
- Saighi, A., Roose, P., Ghouami, N., Laborie, S. & Laboudi, Z. (2017). HaMA: A Handicap-based Architecture for Multimedia Document Adaptation. *International Journal of Multimedia Data Engineering and Management (IJMDEM, ISSN 1947 – 8534)*, 8(4).
- Laboudi Z, Chikhi S & Lakhdari S. (2016). Scalability Property in Solving the Density Classification Task. *Journal of Information Technology Research (JITR, ISSN 1938 – 7857)*, 10(2).
- Laboudi Z, Chikhi S & Lakhdari S. (2016). Effects of Initial Configurations Size in Solving the DCT. In *International Conference on Complex Systems and their Applications (ICCSA'16)*.
- Saighi A., Roose, P., Ghouami, N., Laborie, S. & Laboudi, Z. (2016). Ontological Reasoning for the Personalization of Multimedia Adaptation Services in Smart Home Domain. In *Second International Symposium on Informatics and its Applications (ISIA'16)*.
- Saighi, A., Roose, P., Ghouami, N., Laborie, S. & Laboudi, Z. (2016). Multimedia Presentation Adaptation Architecture Assisted by Ontological Reasoning. In IEEE (editor), *Proc. of The 2nd International Conference on Pattern Analysis and Intelligent Systems (PAIS'16)*.
- Boucherkha S, Laboudi Z & Benmohamed M. (2015). A Low Cost Multipurpose Algorithm for Secure Transfer of Medical Images, *International Review on Information Technology (IREIT, ISSN 2281-2911)*, 3(5).
- Laboudi Z & Chikhi S. (2012). Comparison of Genetic Algorithm and Quantum Genetic Algorithm. *International Arab Journal Information Technology (IAJIT, ISSN 1683 – 3198)*, 9(3).

- Laboudi Z & Chikhi S. (2010). Efficiency and performance analysis between Genetic Algorithm and Parallel Quantum Genetic Algorithm through the density classification and the Knapsack problems, Journal of Networking Technology (JNT, ISSN 0976-898X), 1(4).
- Laboudi Z & Chikhi S. (2010). A Retroactive Quantum-inspired Genetic Algorithm. Arab Conference on Information Technology (ACIT'10).
- Laboudi Z & Chikhi S. (2009). Evolving Cellular Automata by parallel Quantum Genetic Algorithm. IEEE Proc. Of the 2009 Conference on Networked Digital Technologies (NDT'09).
- Laboudi Z & Chikhi S. (2009). Evolution d'Automates Cellulaires par Algorithmes Génétiques Quantiques, Conférence Internationale sur l'Informatique et ses Applications, (CIIA'09).

Interests and Qualifications

- **Interests:** Artificial intelligence – machine learning – context-aware pervasive systems – optimization and meta-heuristics – complex systems – parallel and distributed computing.
- **Qualifications:** Programming languages (Java, C/C++, Matlab, XML, XSLT, HTML, PHP, JSP, CSS, JavaScript, JSON) – Databases (MySQL, Access, PostGis and PostgreSQL) - Application analysis and design methods (UML).
- **Other:** Reading – travelling.