

Abdeldjalil Ledmi

Associate professor in
Computer Science

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🌐 <https://github.com/djalilled>



Education

- 2020 **Ph.D. in Computer Science**, *Laarbi tebessi University*, Algeria
 - Title: Contribution to fault tolerance in distributed systems
 - Advisors: Bendjena Hakim
- 2014 **M.Sc. in Computer Science**, *University of Khenchela*, Algeria
- 2010 **B.Sc. in Computer Science**, *University of Khenchela*, Algeria

Experience

- Since Mar 2020 **Associate professor in Computer Science**, *University of Khenchela*, Algeria
- 2014–2020 **Computer Science Engineer**, *University of Khenchela*, Algeria

Research activities

Research themes

- **Distributed System**: Fault tolerance, Load Balancing, Server Virtualization
- **Soft computing**: Swarm intelligence (PSO, CSA), Evolutionary computing.
- **Cloud Computin**: Task Scheduling.

List of publications and preprints

International journals papers

- [1] Abdeldjalil Ledmi, Hakim Bendjenna, and Sofiane Mounine Hemam. Fault tolerance in distributed systems: A survey. In *2018 3rd International Conference on Pattern Analysis and Intelligent Systems (PAIS)*, pages 1–5. IEEE, 2018.
- [2] Abdeldjalil Ledmi, Hakim Bendjenna, and Hemam Sofiane Mounine. Optimizing both the user requirements and the load balancing in the volunteer computing system by using markov chain model. *International Journal of Enterprise Information Systems (IJEIS)*, 14(1):35–62, 2018.
- [3] Mohammed El Habib Souidi, Makhlof Ledmi, Toufik Messaoud Maarouk, Abderrahim Siam, and Abdeldjalil Ledmi. Multi-agent dynamic leader-follower path planning applied to the multi-pursuer multi-evader game. *Computing and Informatics*, 42(5):1158–1183, 2023.

- [4] Mohammed El Habib Souidi, Hichem Haouassi, Makhoulf Ledmi, Toufik Messaoud Maarouk, and Abdeldjalil Ledmi. A discrete particle swarm optimization coalition formation algorithm for multi-pursuer multi-evader game. *Journal of Intelligent & Fuzzy Systems*, (Preprint):1–17, 2023.
- [5] Mohammed El Habib Souidi, Toufik Messaoud Maarouk, and Abdeldjalil Ledmi. Multi-agent ludo game collaborative path planning based on markov decision process. In *Inventive Systems and Control: Proceedings of ICISC 2021*, pages 37–51. Springer, 2021.
- [6] Makhoulf Ledmi, Mohammed El Habib Souidi, Michael Hahsler, Abdeldjalil Ledmi, and Chafia Kara-Mohamed. Mining association rules for classification using frequent generator itemsets in arules package. *International Journal of Data Mining, Modelling and Management*, 15(2):203–221, 2023.
- [7] Abdeldjalil Ledmi, Makhoulf Ledmi, and Mohammed El Habib Souidi. Fault tolerance in cloud computing: A survey. In *2021 International Conference on Recent Advances in Mathematics and Informatics (ICRAMI)*, pages 1–6. IEEE, 2021.
- [8] Mohammed El Habib Souidi, Toufik Messaoud Maarouk, Makhoulf Ledmi, Abdeldjalil Ledmi, and Hichem Rahab. Multi-pursuer multi-evader games based on dynamic elimination priorities of the dominated strategies. *Journal of Computer and Systems Sciences International*, pages 1–14, 2023.
- [9] Makhoulf Ledmi, Abdeldjalil Ledmi, and Mohammed El Habib Souidi. Classification of xml documents using semantic resources. In *2021 International Conference on Recent Advances in Mathematics and Informatics (ICRAMI)*, pages 1–5. IEEE, 2021.

Teaching activities

Teaching experience

Since 2020 **Associate professor**, *Abbes Laghrour University*, Khenchela, Algeria

- Advanced Software Engineering to Master students from UAL de Khenchela (lectures exercises and practical work)
- Operating System to to Undergraduate students from UAL de Khenchela (lectures, exercises and practical work)
- Advanced algorithmic and complexity to Master students from UAL de Khenchela (exercises and practical work)
- Research Methodology to Master students from UAL de Khenchela (exercises and practical work)

Supervised students

Master thesis

- 2023 Bouziane H., student in Master of Software Engineering and Distributed Systems, University of Khenchela on “Load balancing in cloud computing based on swarm algorithm.”

2022 Ardjouné M, Malki M., student in Master of Software Engineering and Distributed Systems, University of Khenchela on “Comparative Study of Image Quality Evaluation Methods”

Professional service

Committee member

- Fev. 2023 **Member of the Scientific Committee**, *1st International Conference on Materials Sciences and Applications (ISMSA '23)*, University of Khenchela, Algeria
- Jun. 2023 **Member of the Scientific Committee**, *1st National Conference on Materials Sciences and Engineering (MSE'22)*, University of Khenchela, Algeria
- Sep. 2021 **Member of the Scientific Committee**, *The IEEE International Conference on Recent Advances in Mathematics and Informatics (ICRAMI'2021)*, University of Tebessa, Algeria

Computing and language skills

Software

- Programming languages: C, Java, C#, Python.
- Others: L^AT_EX, Office.

Languages

Arabic (Native tongue), English (Intermediate), French (Fluent)