

Dr. Imen BEN HAMIDA

Post-Doctoral Researcher | Electrical
Engineering & Renewable Energy
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CURRENT POSITION

Post-Doctoral Researcher: Laboratory of Automatic, Electrical Systems and Environment (LAS2E), National Engineering School of Monastir (ENIM), University of Monastir, Tunisia.

Project PRC2025-D1P03: "Développement d'un Système de Dessalement Intelligent pour Favoriser l'Agriculture Durable et l'Autosuffisance dans les Zones Rurales"

EDUCATION

Ph.D. in Electrical Engineering: National Engineering School of Sousse (ENISO), University of Sousse, Tunisia (2014–2019)
"Optimal architecture of electrical networks with non-conventional power plants"

Eng. in Industrial Computer Science & Automation: National Institute of Applied Sciences and Technology (INSAT), Tunis (2008–2013)

TEACHING EXPERIENCE

- **Contract assistant professor:** Electrical Systems, ISSATK, University of Kairouan, Tunisia (2019–2023, 4 full years)

SELECTED PUBLICATIONS

- **NEW (2026): I. Ben Hamida**, P.K. Bera, T. Al-Saadi, S.R. Pani, M. Mansouri, "Intelligent Detection of High Impedance Faults in Microgrid Distribution Lines Using Optimized Machine Learning Models," *IEEE Transactions on Industrial Informatics*, accepted May 2026. DOI: 10.1109/11513399. (IF =4.2)
- A.T. Hachemi, M. Hashem, A. Saim, **I. Ben Hamida** et al., "Techno-economic assessment of distribution network supported by renewables and CAES," *Computers & Electrical Engineering*, vol. 127, 2025. (IF = 4.9)
- **I. Ben Hamida** et al., "Multi-objective distribution network reconfiguration and optimal DG insertion," *Arabian Journal for Science and Engineering*, 2019. (IF = 2.05)
- **I. Ben Hamida** et al., "Optimal network reconfiguration and renewable DG integration," *Renewable Energy*, vol. 121, pp. 66–80, 2018. (IF = 6.24)
- **I. Ben Hamida** et al., "Distribution Network Reconfiguration Using SPEA2 for Power Loss Minimization," *Int. J. Energy Optim. Eng.*, vol. 7, no. 1, 2018. (ISI Thomson)

RESEARCH PROJECTS & COLLABORATIONS

- Fault diagnosis in distribution networks using machine learning (2023–2025) with Sultan Qaboos University (Oman) & Western Kentucky University (USA)
- Optimal operations for distribution networks with intermittent DGs (2023–2025) with University of Ouargla (Algeria) & IREENA, Saint-Nazaire (France)
- Research visit: GeePs Laboratory, CentraleSupélec, Université Paris Saclay, France (May-Jun. 2016)

SKILLS & LANGUAGES

Software: MATLAB, Python, PSIM, LabVIEW, AI tools, SolidWorks, C/C++, MySQL, WinRelais

Languages: Arabic (native), French (bilingual), English (proficient), Italian (beginner)