### Fouad Allouani,

#### **Professor in Automatic Control**

**Abbès Laghrour University, Khenchela, Algeria**Faculty of Science and Technology
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#### 1. Education and Qualifications

- June 1997: Baccalaureate in Exact Sciences, EL-Aouinet High School, Tébessa.
- June 2002: Engineering Degree in Electronics, Industrial Control Option, University of Tébessa.
- **June 2006**: Master's Degree in Electronics, Electrical Engineering Specialty, Industrial Control Option, Mohamed Boudiaf University of Msila.
- November 2015: PhD in Electrical Engineering, Automatic Control Specialty, National Polytechnic School of Algiers.
- May 2018: University Accreditation in Electrical Engineering, Larbi Ben M'hidi University, O.E.B.
- July 2023: Professor in Automatic Control, Abbès Laghrour University, Khenchela.

#### 2. Professional Experience

#### 2.1 Teaching

- December 2008 June 2010: Assistant Professor B-Class, Abbès Laghrour University, Khenchela.
- June 2010 December 2015: Assistant Professor A-Class, Abbès Laghrour University, Khenchela.
- December 2015 May 2018: Associate Professor B-Class, Abbès Laghrour University, Khenchela.
- May 2018 July 2023: Associate Professor A-Class, Abbès Laghrour University, Khenchela.
- July 2023 Present: Professor in Automatic Control, Abbès Laghrour University, Khenchela.

# 2.2. <u>Responsibilities</u>

- June 2014 June 2021: Head of the Bachelor's Program in Automatic and Industrial Computing, Department of Industrial Engineering, Faculty of Science and Technology, Abbès Laghrour University, Khenchela, Algeria.
- **June 2021 Present**: Head of the Master's Program in Automatic and Industrial Computing, Department of Industrial Engineering, Faculty of Science and Technology, Abbès Laghrour University, Khenchela, Algeria.

## 3. Research Activities, Publications, and Communications

#### 3.1. <u>Recent International Publications</u>

**Allouani, F.**, Boukhetala, D., Boudjema, F., Kai, Z., & Xiao-Zhi, G. "A Novel Global Harmony Search Method based off-line tuning of RFNN for adaptive control of uncertain nonlinear systems." International Journal of Intelligent Computing and Cybernetics 8, no. 1 (2015): 69–98.



**Allouani, F.**, Boukhetala, D., Boudjema, F., Kai, Z., & Xiao-Zhi, G. "A Novel Global Harmony Search Method based on Ant Colony Optimization Algorithm." Journal of Experimental and Theoretical Artificial Intelligence 28, no. 1-2 (2015): 215-238.

Allouani, F., & Xiao-Zhi, G. "A novel modified flower pollination algorithm for global optimization." Neural Computing and Applications (2018).

Bououden, Sofiane, **Fouad Allouani**, Abdelaziz Abboudi, Mohammed Chadli, Ilyes Boulkaibet, Zaher Al Barakeh, Bilel Neji, and Raymond Ghandour. 2023. "Observer-Based Robust Fault Predictive Control for Wind Turbine Time-Delay Systems with Sensor and Actuator Faults." Energies 16, no. 2: 858. <a href="https://doi.org/10.3390/en16020858">https://doi.org/10.3390/en16020858</a>

Hazil, Omar, **Fouad Allouani**, Sofiane Bououden, Mohammed Chadli, Mohamed Chemachema, Ilyes Boulkaibet, and Bilel Neji. 2023. "A Robust Model Predictive Control for a Photovoltaic Pumping System Subject to Actuator Saturation Nonlinearity." Sustainability 15, no. 5: 4493. <a href="https://doi.org/10.3390/su15054493">https://doi.org/10.3390/su15054493</a>

**Allouani, Fouad**, Abdelaziz Abboudi, Xiao-Zhi Gao, Sofiane Bououden, Ilyes Boulkaibet, Nadhira Khezami, and Fatma Lajmi. 2023. "A Spider Monkey Optimization Based on Beta-Hill Climbing Optimizer for Unmanned Combat Aerial Vehicle (UCAV)." Applied Sciences 13, no. 5: 3273. <a href="https://doi.org/10.3390/app13053273">https://doi.org/10.3390/app13053273</a>

#### 3.2. Recent International Communications

**Allouani, F.**, Kai, Z., & Xiao-Zhi, G. (2016). "A novel Flower Pollination Algorithm based on Genetic Algorithm Operators". In Proceedings of the 9th EUROSIM Congress on Modelling and Simulation, Oulu, Finland, September 12-16, pp. 973-978.

**Allouani, F.**, Gao, X-Z., Bououden, S., & Abboudi, A. (2022). " A Spider Monkey Optimization based on local search-based heuristic method for Unmanned Combat Aerial Vehicle (UCAV) path planning". In Proceedings of the Fifth International Conference on Electrical Engineering and Control Applications ICEECA'22, Khenchela, Algeria, November 15-17.

Bououden, S., Abboudi, A., Boulkaibet, I., **Allouani**, F., & Chadli, M. (2022). "Fault-Tolerant Predictive Control with Sensor Faults". In Proceedings of the Fifth International Conference on Electrical Engineering and Control Applications ICEECA'22, Khenchela, Algeria, November 15-17.