

CV

Name: Abdelhamid Bounemour

Rank: MAB

Department: Electronics, Electrotechnics, Automation (E.E.A)

Email Address: hamidsie4@gmail.com, abdelhamid.bounemour@umc.edu.dz

Educational Profile:

- **Doctorate Science/PhD** in Electronics, Automation and Control system, University of Brothers Mentouri, Constantine 1, Constantine, Algeria
- **MS** in Electronics, Automation and Control Systems, University of Brothers Mentouri, Constantine 1, Constantine, Algeria
- **Extended BS** in Electronics, University of Brothers Mentouri, Constantine 1, Constantine, Algeria

Honors and Distinctions

PhD Thesis awarded "Honorable Mention"

University of Brothers Mentouri, Constantine 1, Constantine, Algeria

Scientific Activities & Membership of Scientific Societies

Reviewer 2015 – Present

- IEEE Transaction on Fuzzy Systems
- IEEE Transaction on Automatic control
- IEEE/CAA Journal of Automatica Sinica
- IEEE Transaction on Systems, Man and Cybernetics: Systems
- IEEE Transaction on Systems, Man and Cybernetics, part B (Cybernetics)
- IEEE Transaction on Power Electronics
- Asian journal of Control
- ISA Transaction
- Nonlinear Dynamics
- Neural Computing and Applications
- International Journal of Robotics and Control Systems (IJRCS)
- IEEE Access
- Annual Review on Control, Robotics and Autonomous Systems
- Neutrosophics Sets and Systems

List of Current Research Projects

- UAVs control and applications.
- Adaptive fault-tolerant control
- Optimization technics applied on control theory

List of Journal Publications

1. Bounemour, A., Chemachema, M. and Essounbouli, N., 2018. Indirect adaptive fuzzy fault-tolerant tracking control for MIMO nonlinear systems with actuator and sensor failures. *ISA transactions*, 79, pp.45-61.
2. Bounemour, A. and Chemachema, M., 2021. Adaptive fuzzy fault-tolerant control using Nussbaum-type function with state-dependent actuator failures. *Neural Computing and Applications*, 33(1), pp.191-208.
3. Bounemour, A., &Chemachema, M. (2021). Adaptive fuzzy fault-tolerant control for a class of nonlinear systems under actuator faults: application to an inverted pendulum. *International Journal of Robotics and Control Systems*, 1(2), 102-115.
4. Bounemour, A., Chemachema, M., &Bouzina, S. (2023). Fuzzy Fault-Tolerant Control Applied on Two Inverted Pendulums with Nonaffine Nonlinear Actuator Failures. *International Journal of Robotics and Control Systems*, 3(2), 144-160.

List of Conference Papers (starting with most recent one, using the **format below**)

1. Abdelhamid, B., Mouhamed, C. and Najib, E., 2016, November. Indirect robust adaptive fuzzy control of uncertain two link robot manipulator. In *international conference on electrical engineering and control applications* (pp. 125-139). Springer, Cham.
2. Bounemour, A., Chemachema, M. and Essounbouli, N., 2014, December. New approach of robust direct adaptive control of a class of SISO nonlinear systems. In *2014 15th international conference on sciences and techniques of automatic control and computer engineering (STA)* (pp. 725-730). IEEE.
3. Abdelhamid, B., Mouhamed, C. and Najib, E., 2017, November. Optimal indirect robust adaptive fuzzy control using PSO for MIMO nonlinear systems. In *international conference on electrical engineering and control applications* (pp. 208-224). Springer, Cham.
4. Bounemour, A. and Chemachema, M., 2019, November. Active Adaptive Fuzzy Fault-Tolerant Control for a Class of Nonlinear Systems with Actuator Faults. In *International Conference on Electrical Engineering and Control Applications* (pp. 985-999). Springer, Singapore.
5. Bounemour, A., Zahaf, A. and Bououden, S., 2019, November. Adaptive fuzzy fault-tolerant control using nussbaum gain for a class of SISO nonlinear systems with unknown directions. In *International Conference on Electrical Engineering and Control Applications* (pp. 493-510). Springer, Singapore.
6. Abdelmalek, Z., Abdelhamid, B., Sofiane, B. and Boulkaibet, I., 2019, November. Fault Diagnosis of Uncertain Hybrid Actuators Based Model Predictive Control. In *International Conference on Electrical Engineering and Control Applications* (pp. 961-971). Springer, Singapore.
7. Bounemour, A., Chemachema, M. and Essounbouli, N., 2014, December. Robust indirect adaptive fuzzy control using Nussbaum gain for a class of SISO nonlinear systems with unknown directions. In *2014 15th International Conference on Sciences and Techniques of Automatic Control and Computer Engineering (STA)* (pp. 748-754). IEEE.

List of Current Doctoral Research Students Supervision

There is no supervisor Doctoral Research