

Dr. Saida Bedoui

Assistant professor

Personal Data:

Nationality | Tunisian

Date of Hire | 18/01/2025

Date Rank Obtained | 12/09/2013

Department | Electrical Engineering department

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Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Electrical Engineering	Automatic Control	National Engineering school of Gabes, Gabes University, Tunisia	Street Omar Ibn El Khattab, Zrig, Gabès 6029	05/03/2013
Masters (M.Sc.)	Automatic and Intelligent techniques	Automatic Control	National Engineering school of Gabes, Gabes University, Tunisia	Street Omar Ibn El Khattab, Zrig, Gabès 6029	18/06/2009
Bachelor (B.Sc.)	Automatic Electrical Engineering	Automatic Electrical Engineering	National Engineering school of Gabes, Gabes University, Tunisia	Street Omar Ibn El Khattab, Zrig, Gabès 6029	05/07/2008

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions):

PhD	Contribution to the identification of delayed systems
Master	Identification of Discrete Systems with Time Delays: A Multimodal Approach

Experiences:

Title of Job	Address of Work	Country	Date	
Assistant professor	College of engineering, king faical university	KSA	From	18/01/2025
			To	now
Assistant professor	Higher Institute of Industrial Systems of Gabes, Gabes university	Tunisia	From	12/09/2013
			To	17/01/2025
Lecturer	Higher Institute of Applied Sciences and Technology of Gafsa, Gafsa University	Tunisia	From	24/09/2012
			To	11/09/2013

Research Interests:

1. Modeling and system Identification of nonlinear system
2. Diagnosis and Fault tolerant control of Hybrid Systems
3. Adaptive and predictive control
4. Data driven approach

Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	Yahia, S., Bedoui, S., and Abderrahim, K.	Actuator Fault Tolerant Control in Switched Systems: A Comprehensive Approach Integrating Clustering, Classification, and LMI-Based Compensation	IEEE Access (2025)	https://doi.org/10.1109/ACCESS.2025.3545556
2	Yahia, S., Bedoui, S., and Abderrahim, K.	Classification-based estimation of commutation instants for sensor fault-tolerant control in switched systems.	Journal of Vibration and Control. (2024)	https://doi.org/10.1177/1077546324126
3	Bedoui S, Abderrahim K, Ding F.	Iterative parameter identification for Hammerstein systems with ARMA noises by using the filtering identification idea.	Int. J. Adapt. Control Signal Process. (2024)	https://doi.org/10.1002/acs.3865
4	Marzougui, S., Bedoui, S., and Abderrahim, K.	On the Combined Estimation of the Parameters and the States of Fractional-Order Systems.	Proceedings of the Institution of Mechanical Engineers, Part I : Journal of Systems and Control Engineering. 2023	https://doi.org/10.1177/0959651823117
5	Yahia, S., Bedoui, S., and Abderrahim, K.	Diagnosis and Fault Tolerant Control Against Actuator Fault for a Class of Hybrid Dynamic Systems.	Measurement and Control, (2023)	https://doi.org/10.1177/0020294022114
6	Yahia, S., Bedoui, S., and Abderrahim, K.	Fault-tolerant control and sinusoidal disturbance attenuation for a class of hybrid dynamic systems	Proceedings of the Institution of Mechanical Engineers, Part I : Journal of Systems and Control Engineering. 2023	https://doi.org/10.1177/09596518221137

7	Bedoui S, Abderrahim K,	Convergence Analysis of Forgetting Factor Least Squares Algorithm for ARMAX Time-Delay Models.	Circuits, Systems, and Signal Processing, (2022).	https://doi.org/10.1007/s00034-022-02128-x
8	Bedoui S, Abderrahim K,	On consistency of least squares algorithm for ARMAX time-delay models.	Proceedings of the Institution of Mechanical Engineers, Part I : Journal of Systems and Control Engineering,	https://doi.org/10.1177/09596518221080690
9	Yahia, S., Bedoui, S., and Abderrahim, K.	Sensor Fault Tolerant Control for Hybrid Systems With Sinusoidal Disturbance.	IEEE Access (2022).	https://doi.org/10.1109/ACCESS.2022.3192403
10	Marzougui, S., Bedoui, S., Atitallah, A., and Abderrahim, K	Parameter and State Estimation of Nonlinear Fractional-Order Model Using Luenberger Observer	Circuits, Systems, and Signal Processing (2020)	https://doi.org/10.1007/s00034-022-02031-5
11	Marzougui, S., Atitallah, A., Bedoui, S., and Abderrahim, K.	Hierarchical fractional-order Hammerstein system identification.	International Journal of Systems Science, (2021).	https://doi.org/10.1080/00207721.2021.1891324
12	Atitallah, A., Bedoui, S., and Abderrahim, K.	Joint parameter and time-delay identification algorithm and its convergence analysis for wiener time-delay systems.	Circuits, Systems, and Signal Processing, (2020).	https://doi.org/10.1007/s00034-019-01191-1
13	Moussa, A., Pouliquen, M., Frikel, M., Bedoui, S., Abderrahim, K., and M'Saad, M.	Blind equalisation in the presence of bounded noise.	IET Signal Processing, (2018).	https://doi.org/10.1049/iet-spr.2017.0445

For detailed list of publication: [ResearchGate](#)

Language Proficiency:

1. Arabic
2. French C1
3. English B2/C1