

Dr. Nawel AFSI

Assistant Professor

Personal Data:

Nationality | Tunisia

Date of Hire | 21/01/2023

Date Rank Obtained | 07/02/2020

Department | Electrical Engineering

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Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Electrical Engineering	Automatic Control	Claude Bernard University Lyon 1-France. & National School of Engineers of Monastir- Tunisia	Lyon -France & Monastir- Tunisia	7/02/2020
Masters (M.Sc.)	Electrical Engineering	Electronics, Electrical engineering, Automatic Control and Processes	Co-accredited by the National Institute of Applied Sciences of Lyon (INSA Lyon-France) & Central School of Lyon & Claude Bernard University in Lyon 1-France.	Lyon -France	2015
Bachelor (B.Sc.)	Electrical Engineering	Computer Science and Automatic Control	National School of Engineers of Monastir (ENIM)- Tunisia	Monastir- Tunisia	2014

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

PhD	Control of processes represented by partial differential equations.
Master	Modeling and control of Quadrotror

Experiences:

Title of Job	Address of Work	Country	Date	
Assistant Professor	King Faisal University - College of Engineering	KSA	From	21/01/2023
			To	Present

Temporary teacher	Higher Institute of Applied Sciences and Technology of Gafsa-Tunisia	Gafsa-Tunisia	From To	2020 2021
Temporary teacher	Higher Institute of Applied Sciences and Technology of Gafsa-Tunisia	Gafsa-Tunisia	From To	2019 2020
Contract Teacher	Higher Institute of Applied Sciences and Technology of Gafsa-Tunisia	Gafsa-Tunisia	From To	2018 2019
Temporary teacher	National Engineering School of Monastir-Tunisia	Monastir-Tunisia	From To	2017 2018
Temporary teacher	National Engineering School of Monastir-Tunisia	Monastir-Tunisia	From To	2016 2017

Research Interests:

1. Modeling, simulation and Control of dynamic systems.
2. Control of chemical processes described by partial differential equations (mainly Crystallization and Polymerization processes).
3. Estimation
4. Dynamic optimization.

Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	Nawel Afsi , Sami Othman, Toufik Bakir, Anis Sakly, and Nida Sheibat-Othman.	Model predictive control with integrated model reduction for continuous Lactide ring-opening polymerization process	ACS OMEGA February 17, 2022	Click Here
2	Nawel Afsi , Toufik Bakir, Anis Sakly, Sami Othman.	Two concurrent β -Variable adaptive model- free controls of a Seeded Batch Crystallizer	Transactions of the Institute of Measurement and Control- September 14, 2022	Click Here
3	Nawel Afsi , Sami Othman, Toufik Bakir, Anis Sakly, and Nida Sheibat-Othman.	Model predictive control for continuous lactide ring-opening polymerization processes	Asian Journal of Control- 05 November 2020	Click Here
4	Nawel Afsi , Cedric Join, Toufik Bakir, Anis Sakly, and Sami Othman.	An intelligent proportional controller of a seeded batch crystallizer	17th International Multi-Conference on Systems, Signals & Devices (SSD), pages 1009-1016. IEEE, 2020.	Click Here
5	Nawel Afsi , Sami Othman, Toufik Bakir, Liborio I Costa, Anis Sakly, and Nida Sheibat-Othman.	Dynamic optimization of a continuous lactide ring-opening polymerization process.	International Conference on Control, Automation and Diagnosis (ICCAD), pages 1-6. IEEE, 2019.	Click Here

6	Nawel Afsi , Toufik Bakir, Sami Othman, and Anis Sakly.	Model-free control of a seeded batch crystallizer.	The Canadian Journal of Chemical Engineering- 13 November 2017	Click Here
7	Nawel Afsi , Toufik Bakir, Sami Othman, Nida Sheibat-Othman, and Anis Sakly	Estimation of the mean crystal size and the moments of the crystal size distribution in batch crystallization processes.	4th International Conference on Control Engineering & Information Technology (CEIT), pages 1-6. IEEE, 2016.	Click Here

Language Proficiency:

1. Arabic, mother language
2. English
3. French