

Short Biography :

Prof. Dr. Faouaz JEFFALI,
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Prof. Dr. Faouaz JEFFALI is a distinguished professor in the Department of Applied Engineering at the Higher School of Technology (ESTO), Mohammed First University (UMPO), Oujda, Morocco. Previously, he served as an assistant professor at the National School of Applied Sciences Al Hoceima (ENSAH), Morocco. He holds a PhD in Physics and Engineering, specializing in Industrial and Electrical Engineering, with a strong focus on Industrial Optimization. Currently, Professor Jeffali is the Coordinator of the Industrial Engineering and Automotive Technology and Mechatronics program at the Higher School of Technology, Mohammed First University, and serves as the pedagogical supervisor of the Industrial and Logistics Club. With a prolific research career, he has authored over 30 publications, including two book chapters and two books, and has supervised more than five PhD candidates. He has also served as a jury member and rapporteur for numerous PhD theses across various scientific disciplines, including mechanical engineering, industrial engineering, and electrical engineering. Professor Jeffali has received several scientific awards at both the national and international levels and has been honored at various university events and prestigious national and international scientific conferences. His expertise lies in thermographic infrared technology, a cutting-edge method for diagnosing machinery defects by detecting thermal anomalies—akin to how medical imaging identifies health issues. Through collaborations with Université Paris-Est Créteil and the Institute of Technology in Fontainebleau, France, Professor Jeffali and his team have developed advanced algorithms to analyze large datasets, enhancing the accuracy of machine malfunction diagnostics. By integrating thermographic infrared imaging with mathematical modeling and informatics, his research has significantly improved predictive maintenance and industrial efficiency. Professor Jeffali has played a key role in chairing and organizing international conferences, including the International Conference on Materials and Environmental Science (ICMES) from 2016 to 2025. He also oversees the University Center for Support to Scientific Production (CUAPS) at Mohammed First University, is a member of the University Center for African Studies, and is one of the founding members of the University Center for Migration Studies. In recognition of his contributions to global research, he was a Visiting Scholar at King Abdullah University of Science and Technology (KAUST), Saudi Arabia, in May 2024, collaborating with the Advanced Membranes & Porous Materials (AMPM) Center. Additionally, he has served as a guest editor and reviewer for numerous esteemed scientific journals.

Professor Jeffali's research network includes collaborations with leading laboratories and institutions in the USA, France, Canada, Saudi Arabia, South Korea, Sweden, and Italy, further solidifying his impact in the fields of industrial engineering, thermographic infrared technology, and advanced materials science.