



Hicham Lamtougui received the master's degree in computer science from the Faculty of Science Dhar El Mahraz, Sidi Mohamed Ben Abdellah University, Fez, Morocco, where he is currently pursuing the Ph.D. degree. His research interests include machine learning, deep learning, Arabic handwriting recognition, and Text Mining.



Ali Yahyaouy is a professor at the Faculty of Sciences Dhar El Mahraz, Sidi Mohamed Ben Abdellah University, Morocco. He obtained his PhD degree at University of Technology of Belfort-Montbéliard, France and Sidi Mohamed Ben Abdellah University, Morocco in 2010. He is a member of the LISAC laboratory in Fez. He has been the coordinator of the University Qualification "Software Engineering and Multimedia" since 2014 and of the International Francophone Master "Web Intelligence and Data Science" since 2017. His research activities mainly concern Machine learning, Multi-agent Systems, Smart Grids and ITS.