

Biography

Dr. Samir Brahim Belhaouari



Dr. Samir Brahim Belhaouari is a faculty member in the Division of Information & Computing Technology at Hamad Bin Khalifa University (HBKU), Qatar. He received his Ph.D. in Mathematical Sciences from EPFL, Switzerland, and his MSc in Networks and Telecommunications from INP/ENSEEIH, France. With international academic experience across Europe, the Middle East, Russia, and Asia, he has developed a strong global research profile.

His work spans mathematics, machine learning, and data science, with notable contributions in classification, GenAI, feature selection, data preprocessing, and optimization. He is the creator of the Multilevel Architecture of Deep Learning (MADL), a framework that enhances neural network training efficiency and performance. He has also developed novel algorithms for time-frequency decomposition, model compression, Green AI, and image/graph representation, as well as an enhanced hashing function inspired by mathematical conjectures.

Dr. Belhaouari has served as principal investigator on major research projects funded by Qatar, Russian, and Malaysia, and his contributions have earned him multiple international awards, including medals at global innovation exhibitions. With over 300 publications, more than 5,000 citations, and an H-index of 36, he continues to influence both theoretical and applied aspects of AI, delivering innovative solutions that bridge mathematics, sustainability, and advanced computing.

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