Dr. Nassima OUALI

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Nassima OUALI received the Ph.D. degree in Automatic Control and Systems Engineering from the University of Bejaia, Algeria, in 2024. She is currently a Postdoctoral Researcher at IRSEEM, laboratory at ESIGELC France, working on the WaterWarmth project, where she develops model predictive control algorithms for energy flow management in a surface water-source thermal energy microgrid. Her research interests include building heating systems, energy management, model predictive control of nonlinear systems, and photovoltaic energy optimization,