

Ali Bagheri

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Ali Bagheri holds a Ph.D. in Engineering Science and Technology (Thermal Engineering and Combustion Department) from the Université de Mons, Belgium (2019), and an M.Sc. in Energy Conversion from Yazd University, Iran. He is currently a Senior Researcher Engineer at Cenaero, Belgium, working on energy efficiency, system identification, and Model Predictive Control techniques for buildings. He previously held research positions at Thomas More University of Applied Sciences and Inteligg P.C., and was a research assistant at the Energy Institute of the Université de Mons, where he developed thermal network (RC) models, IoT-based monitoring solutions, and optimal controllers for building and district energy management.

His research interests include building energy performance modelling, data-driven and physics-based (RC/thermal network) system identification, model predictive control, and machine learning applications for smart building and smart meter data analytics, the focus of his ICRERA2026 contribution is on cluster-conditioned load profiling from 2,000 Belgian smart meters. He has authored several peer-reviewed publications in journals including Buildings, Energies, and Sustainability, and has supervised multiple M.Sc. theses at the Université de Mons.