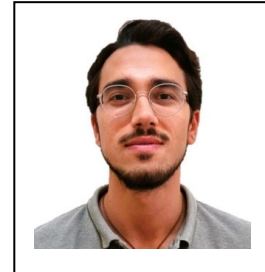


ICSMARTGRID 2025

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Bio

Dr. Emanuele Fedele received the Ph.D. degree in Information Technology and Electrical Engineering from the University of Naples Federico II, Italy, under the “National Operational Program (PON) – Research and Innovation 2014-2020” grant, with a thesis on the integration and control of non-conventional multi-port traction converters for rolling stock vehicles with onboard energy storage and fuel cell systems. During his Ph.D, he has collaborated with the Department of Electronic, Electrical and Systems Engineering at the University of Birmingham, UK, and with Hitachi Rail Italy S.p.A. company in Naples, Italy. His research interests encompass modelling, control, and integration of energy storage systems, power electronic converters, and electrical drives with application to rail and air propulsion systems, wind energy conversion systems, and energy storage integration. He currently holds a position as Research Associate at the Department of Electrical Engineering and Information Technology, University of Naples Federico II, Italy, where he is involved in lectures and research activities on power electronics and electrical machines for transportation and renewables..