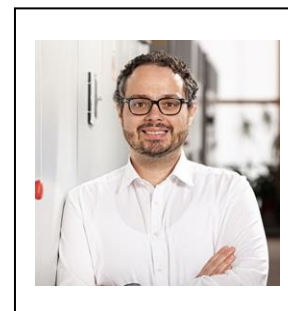


ICSMARTGRID 2024

12TH INTERNATIONAL CONFERENCE ON SMART GRID

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Bio

Giovanni De Carne received the B.Sc. and M.Sc. degrees in electrical engineering from the Polytechnic University of Bari, Italy, in 2011 and 2013, respectively, and the Ph.D. degree from the Chair of Power Electronics, Kiel University, Germany, in 2018.

He is currently W3 (Full) Professor at the Institute for Technical Physics at the Karlsruhe Institute of Technology, Karlsruhe, Germany, where he leads the "Real Time System Integration" Group and the "Power Hardware In the Loop Lab".

In 2020, Prof. De Carne has been awarded with the highly-competitive Helmholtz "Young Investigator Group" for the project "Hybrid Networks: a multi-modal design for the future energy system". He is involved in industrial projects with the major energy manufacturers, such as Siemens Mobility, Schneider Electric, ABB, Bosch, and he develops high-power infrastructure for transfer-to-industry purpose.

He actively contributes scientifically to the field with particular focus on power electronics integration in power systems, solid state transformers, real time modelling, and power hardware in the loop.

He successfully hosted the IEEE eGrid2023 Workshop in Karlsruhe in October 2023. He is an Editor of several IEEE and IET journals and (co-)leads task-forces in CIGRE and PES on the Solid State Transformer integration in distribution grids.