



**UNIVERSITÀ
DI TRENTO**

**Dipartimento di
Ingegneria Industriale**

DII

Seminar

Research path towards a 100% renewable electricity grid: on microgrids and converters' control

February 14th 2024, h. 10:00

Seminar room, Polo Ferrari 2, Via Sommarive 9, Trento

Speaker: Lucas Savoi Araujo (NTNU)

This presentation will outline the trajectory of my last six-year research journey focusing on the control of microgrids and power converters. The motivation behind this investigation derives from the increasing integration of batteries and renewable energy sources into the electrical grid, seeking for a viable solution for achieving a 100% renewable grid. The presentation will briefly address the research problems and the innovative solutions proposed to accomplish the outlined objectives. Practical experiments and hardware-in-the-loop results will be showcased, offering insights into the applicability and effectiveness of the proposed methodologies.

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