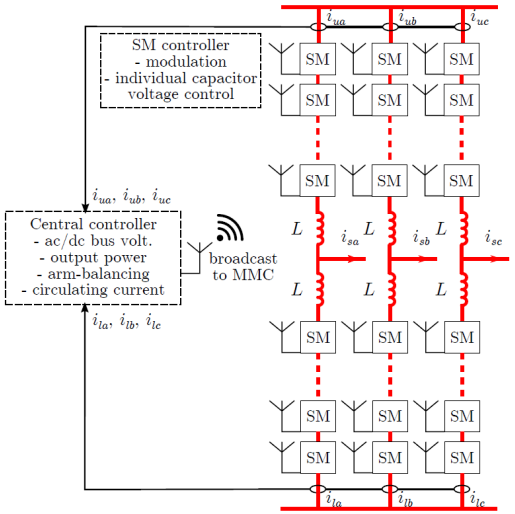
Wireless Control of Autonomous Submodules in Modular Multilevel Converters

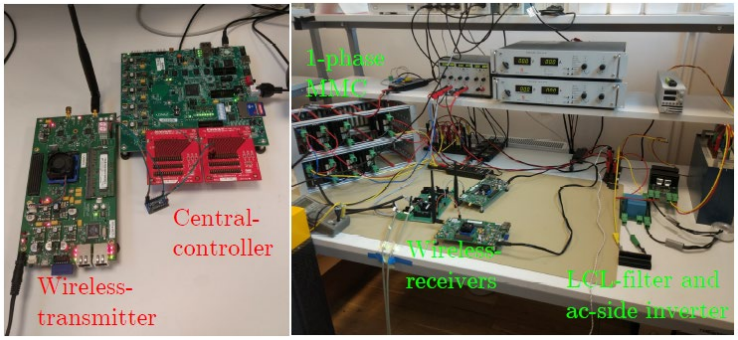
PhD student: Baris Ciftci

Funding: KTH Royal Institute of Technology
Period: 2017 - 2022

Objective

- Wireless control of MMC submodules by robust control and modulation methods via low-latency, high-reliability wireless communication.





Publications

- B. Ciftci, J. Gross, S. Norrga, L. Kildehøj and H.-P. Nee, “A proposal for wireless control of submodules in modular multilevel converters," in 20th Eur. Conf. Power Electron. and Applicat., Riga, 2018.
- B. Ciftci, J. Gross, S. Norrga, and H.-P. Nee, “Simple distributed control for modular multilevel converters," in 21st Eur. Conf. Power Electron. and Applicat., Genova, 2019.
- B. Ciftci, S. Schiessl, J. Gross, L. Harnefors, S. Norrga, and H.-P. Nee, “Wireless control of modular multilevel converter submodules,” submitted for publication.