## Seminar on Electromagnetic Noise in Power Electronics

- Electromagnetic noise in power electronic systems is frequently misunderstood and ignored during the design process until problems arise. This seminar provides methods on this topic in theory and practice:
  - Fundamental vocabulary, the interference model, as well as examples
  - Models of sources, paths and simulation principles for power electronic components
  - Measurement setups, equipment, laws and regulations for conducted emissions
  - Mitigation techniques for localization, general counter measures and aspects of filter design



- Theoretical Presentation of the aspects, which include simulation exercises (2 days)
- Laboratory exercise in a group up to five students (2-3 hours)
- Submission of a paper on a specific part of the seminar, which includes the results of the laboratory exercise
- □ The workload of this Seminar corresponds to 4 SWS
- □ Date and time: November 24th and 25th 9 a.m. to 4 p.m.
- □ Location: zoom link will be provided after registration
- □ Registration: emc@isea.rwth-aachen.de





