

Toggle Frequency Controller

Current Transformers (CTs) are inductive single phase transformers that are used to measure high currents within the electrical power grid. To ensure that CTs are working correctly, they need to be tested. For this purpose, a rectangular voltage is generated and the resulting current is measured. The frequency of the rectangular voltage is influenced by a current threshold I_{comp} . In this thesis a controller will be developed that brings the frequency of the voltage signal close to a reference frequency f_{nom} .

This project includes the following tasks:

- Analysis of the existing approach
- Development of a new frequency control method
- Time comparison of newly developed and existing method

Start: today 😊

Contact:

[Markus Reichhartinger](#)
[Nicolai Schwartze](#)

