

IPID4all Senior Research Exchange with Prof. Sebastian Lehnhoff (University of Oldenburg)

Feedback report

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Power System State Estimation under measurement
scarcity*

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Activities / Contacts

- Main topic of the discussions was Power System State Estimation for Distribution Networks. Particular subtopics were extensions of an existing approach, used at UQ and UO, to consider static data and to forecast error propagation to assess estimation result qualities. Brief discussions about the forecasting of power system model error propagation.
- In addition to discussing the recent advancements, possible dissemination pathways for the developed techniques have been discussed. Especially dissemination through the openKONSEQUENZ consortium, of which UQ therefore became a guest member.

Future collaboration / Outlook

- Dissemination of developed algorithms through openKONSEQUENZ is now an essential knowledge sharing strategy in a UQ lead development project proposal to the Australian Renewable Energy Agency, supported by the head organisation of all energy network operators in Australia (Energy Networks Association), the Australian Power Institute. If funded, this project will complement activities at OFFIS and increase the technological reach of the research conducted at UQ.
- Further exchange is currently not planned for the immediate future, but will surely occur within the next couple of months.
- Research been shared through the openKONSEQUENZ initiative will increase the visibility and availability of research done in this cooperation.

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