

SONDERKOLLOQUIUM der TF am 13.12.2013

Sehr geehrte Damen und Herren,

wir laden Sie herzlich zum Kolloquium der TF am **13.12.2013 um 13:00 Uhr** ein. Auf Einladung von *Herrn Prof. Dr. M. Liserre* hält

Herr Prof. Dr. Alberto Pigazo
University of Cantabria, Spain

einen Vortrag mit dem Titel:

“Robustness Analysis of PV inverters”

Abstract:

Efficiency has been the main target of the PV inverter industry during the last decade. New converter topologies and control strategies have been developed and employed in order to increase the efficiency of the PV inverter while the electrical grid codes and the standard requirements were accomplished. As a consequence, the initial investment associated with the PV system can be paid off faster. However, recent evaluations of maintenance costs in large PV systems have shown that most of the unscheduled maintenance costs are due to the fails in PV inverters and the focus of certain companies have moved on reliability issues. Both the efficiency and the reliability of PV inverters are current targets of companies which allow the PV energy incomes and availability to be increased.

A third issue to be considered in PV inverters is robustness, which is the PV inverter ability to resist changes related to components characteristics, controller dynamics and mission profiles without reducing its initial performance. A proper selection of components and control parameters, depending on the mission profile, will allow this robustness to be increased and higher quality PV inverters to be produced by manufacturers. This lecture will show the state of art in robustness analysis of PV inverters and the researching lines that can be followed in the near future.

Veranstaltungsort ist wie immer der Vortragsraum der Technischen Fakultät („Aquarium“) im Gebäude D, Kaiserstraße 2, 24143 Kiel. Wir erwarten eine interessante Veranstaltung und freuen uns über Ihr Erscheinen.

Mit freundlichen Grüßen
i.A. Claudia Martin