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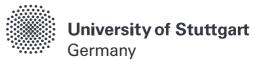
Dinner & networking



Heidelberg Institute for Theoretical Studies







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Day 1	10th of October, 2018
09:30	Registration & welcome coffee
10:15	Opening (Thomas Leibfried)
10:30	Keynote (Chair: Thomas Leibfried)
	Modelling societal and governance drivers within an techno-economic
	energy systems context
	Professor Neil Strachan, Director of the University College London UCL Energy
	Institute
11:30	Cost optimal design of ZENs energy system
	Dimitri Pinel, NTNU Trondheim
12:00	Dimensioning of battery storage as temporary equipment during grid
	reinforcement caused by electric vehicles
12:30	Lukas Held, Karlsruhe Institute of Technology (IEH) Lunch break & networking
	Bemand response (Chair: Armin Ardone)
13:30	A discussion of mixed integer linear programming models of thermostatic
13.50	loads in demand response
	Vahid Rasouli, INESC Coimbra
14:00	Modelling interactions between market power and demand response
	Mel Devine, University College Dublin
14:30	Weighted fair queuing as a scheduling algorithm for deferrable loads in
	smart grids improving distress distibution over a greedy strategy
	Tuncer Haslak, FAU Erlangen
15:00	Coffee break
	Optimal power flow 1 (Chair: Vincent Heuveline)
15:30	Policy optimization for optimal power flow under uncertainty
	Tillmann Mühlpfordt, Karlsruhe Institute of Technology (IAI)
16:00	Distributed optimal power flow – feasibility vs. optimality
10.00	Alexander Engelmann, Karlsruhe Institute of Technology (IAI)
16:30	ADMM based decoupling techniques for unit commitment problems
	considering grid restrictions
17:00	Viktor Slednev, Karlsruhe Institute of Technology (IIP) End of the first conference day
17:15	Visit of the brewery Hoepfner
17:15 17:15	Guided city tour

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Day 2	11th of October, 2018
	Energy system integration (Chair: Valentin Bertsch)
08:30	A green copper concept: on the design of a full-renewable energy supply
	for its production
00.00	Simón Moreno Leiva, Stuttgart University
09:00	Effects of power changes on the gas network / Optimal control of coupled
	power and gas networks
00.20	Eike Fokken, Mannheim University
09:30	Coffee break
10:00	Keynote (Chair: Valentin Bertsch)
	Modelling challenges for energy systems integration – the good, the bad
	and the ugly
	Mark O'Malley, Chief Scientist, Energy Systems Integration and Senior Research
	Fellow at the National Renewable Energy Laboratory, USA.
	Optimal power flow 2 (AC/DC) (Chair: Thomas Leibfried)
11:00	Security analysis for embedded HVDC in transmission grids
	Marco Giuntoli, ABB Ladenburg
11:30	Decentralized optimal power flow in hybrid AC-DC grids
10.00	Nico Meyer-Hübner, Karlsruhe Institute of Technology (IEH)
12:00	Lunch break & networking
13:00	Panel discussion (Chair: Wolf Fichtner, Valentin Bertsch)
	Bridging the gap between mathematical modelling and policy support
	Sonja Babrowski (MVV Trading GmbH), Jörg Jasper (EnBW Energie Baden-
	Württemberg AG), Mark O'Malley (NREL), Neil Strachan (University College London),
14.00	Ulrich Janischka (TransnetBW GmbH)
14:00	Coffee break
	Transmission and generation expansion (Chair: Wolf Fichtner)
14:30	The cost-benefit of transmission expansion in a sector-coupled, highly-
	renewable European energy scenario
1= 00	Tom Brown, Karlsruhe Institute of Technology (IAI)
15:00	The performance of planning reserve constraints to deal with demand
	uncertainty in long-term planning models
	Tim Mertens, KU Leuven
15:30	Generation and transmission expansion in Uganda: The cost of minimising
	sub-national energy inequalities
10.00	Peter Wilson, University of Bath
16:00	Summary & closing (Wolf Fichtner)