Workshop
Numerical Optimization of the PEM Fuel Cell Bipolar Plate
March 20th, 2018

Location: Zentrum für Solarenergie- und Wasserstoff-Forschung (ZSW) Ulm,
Helmholtzstr. 8, 89081 Ulm, Seminar room 707

Time		Speaker	Title (all talks in English)
09:00	09:10	**Karsten Urban** (Univ. Ulm)	Welcome
09:10	09:40	**Mohammad J. Kermani** (Amirkabir University) **Joachim Scholta** (ZSW Ulm)	Introduction of DFG project, physical model, aims and scope
09:40	10:10	#1: **Arnulf Latz** (Helmholtz-Institut Ulm)	Simulation of PEM fuel cells
10:10	10:30	*Coffee Break*	
10:30	11:00	#2: **Katharina Becker-Steinberger** (Helmholtz-Institut Ulm)	Numerical simulation of solid elecgtrolyte cells
11:00	11:30	#3: **Manuel Landstorfer** (WIAS Berlin)	Modeling Electrochemical Systems with Homogenisation techniques
11:30	12:00	#4: **Annegret Glitzky** (WIAS Berlin)	Electrothermal feedback in organic LEDs
12:00	13:00	*Lunch Break with sandwiches*	
13:00	13:30	#5: **Jürgen Fuhrmann** (WIAS Berlin)	Computational assessment of the derivation of the Butler-Volmer kinetics as a limit case of the Nernst-Planck equations with surface reactions
13:30	14:00	#6: **Stefan Volkwein** (Univ. Konstanz)	Numerical Optimization in Estimation and Control
14:00	14:30	*Coffee Break*	
14:30	15:00	#7: **Mario Ohlberger** (Univ. Münster)	Localized model reduction and electrochemical applications
15:00	15:30	#8: **Bernard Haasdonk** (Univ. Stuttgart)	Reduced Basis Methods for Evolution Problems and Application in Optimization and Control
15:30	16:00	#9: **Ali Madadi** (Amirkabir University)	Application of modern optimization methods to some mechanical engineering problems
16:00	16:30	**Discussion / Short Communications**	
16:30	17:00	Mohammad J. Kermani, Joachim Scholta, Karsten Urban	GoodBye / private discussions

20:15	*Joint dinner at a restaurant in Ulm*

Amirkabir University of Technology
(Tehran Polytechnic)

DFG Deutsche Forschungsgemeinschaft