

## SECOND INDUSTRIAL WORKSHOP

## AGENDA

2nd – 3rd February 2012 Astos Solutions GmbH Stuttgart, Germany



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## DAY 1

TALKS

08.15 - 09.15	Registration
09.15 - 09.30	Welcome
09.30 - 10.30	Optimal Control of Partial Differential Equations with Delay John T. Betts
10.30 - 11.00	Industrial Applications of NLP Methods <b>Cristof Büskens</b> , University of Bremen
11.00 - 11.30	Coffee Break
11.30 - 12.00	Large Scale Optimal Control Problems <b>Sven Schäff,</b> Astos Solutions
12.00 - 12.30	Trajectory Planning and Collision Detection for Robotics Applications Matthias Gerdts, University of the Federal Armed Forces at Munich
12.30 - 13.00	Multi-Mission Vehicle Design Optimization Francesco Cremaschi, Astos Solutions
13.00 - 14.00	Lunch
14.00 - 14.30	BOCOP - An Open Source Toolbox for Optimal Control <b>Pierre Martinon,</b> INRIA Saclay & CMAP
14.30 - 15.00	Hessian-Approximations for Sparse and Large-Scale Nonlinear Optimization <b>Sonja Rauski</b> , Astos Solutions & University of Bremen
15.00 – 15.30	Collision Avoidance by Optimal Control Techniques Ilaria Xausa, Volkswagen
15.30 - 16.00	Coffee Break
16.00 - 16.30	Distributed Multiple Shooting Attila Kozma, Katholieke Universiteit Leuven
16.30 - 17.00	Sensitivity analysis for the outages of nuclear power plants Laurent Pfeiffer, Inria Saclay & Ecole Polytechnique
17.00 - 17.30	A numerical scheme for mean-field games Francisco Silva, Sapienza - University of Rome
19.00 - 20.00 From 20.00	Sports and historical car museum 'Meilenwerk' in Böblingen Dinner at the 'Meilenwerk'

## DAY 2

TUTORIALS

Friday 3rd February

09.00 - 12.30 Tutorial on applied optimal control using ASTOS and the WORHP NLP solver

12.30 - 13.30 Lunch

**13.30 - 16.30** Hands-on optimal control software training session