

CMS'05 Symposium on
Mathematical Methods in Optimal Control

organized by

ZDZISLAW DENKOWSKI

Computer Science Institute, Jagiellonian University, Cracow

ADAM KORYTOWSKI

Institute of Automatic Control, AGH University of Science and Technology, Cracow

- *Lorenzo Freddi, Universita di Udine, Italy*
Variational convergence methods in optimal control theory
- *Stanisław Walczak, University of Lodz, Poland*
On the Stability of Critical Points of Functionals and Solutions to Boundary Value Problems
- *Nikolai P. Osmolovskii, Systems Research Institute, Warsaw, Poland*
Second Order Optimality Conditions for a Control with Continuous and Bang-Bang Components
- *Andrei Dmitruk, Russian Academy of Sciences, Moscow, Russia*
Jacobi type conditions for singular extremals
- *Nikolaos S. Papageorgiou, National Technical University of Athens, Greece*
Degree Theory and Multiple Solutions for Nonlinear Elliptic Equations
- *Sabine Pickenhain, Valeria Lykina, BTU Cottbus, Germany*
Infinite horizon optimal control problems - theory and applications
- *Stanisław Migórski, Jagiellonian University, Cracow, Poland*
Optimal Control of Elastic and Viscoelastic Dynamic Contact Problems with Applications
- *J. Frédéric Bonnans, Julien Laurent-Varin, INRIA, France, Felipe Alvarez, Universidad de Chile, Chile*
Logarithmic penalty for optimal control problems
- *Verena Petzet, Kati Sternberg, Kurt Chudej, Hans Josef Pesch, University of Bayreuth, Germany*
Applications of PDE Constrained Optimization
- *Christof Büskens, Universität Bremen, Germany*
Suboptimal Improvement of the Classical Riccati Controller
- *Ursula Felgenhauer, BTU Cottbus, Germany*
Primal and dual sensitivity approaches for bang-bang optimal controls
- *Andrzej Świerniak, Silesian University of Technology, Gliwice, Poland*
Finite and Infinite Dimensional Optimal Control Problems Arising in Cancer Chemotherapy
- *Radosław Pytlak, Wojskowa Akademia Techniczna, Warsaw, Poland*
Convergence analysis of preconditioned conjugate gradient algorithms for nonconvex problems with box constraints
- *Maciej Szymkat, Janusz Miller, AGH University of Science and Technology, Cracow, Poland*
Direct and indirect optimization of state constrained flight trajectories