

CMS'05 Special Session on

Dynamical Systems - Modelling, Analysis and Synthesis

organized by

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

- *Franziska Matthaeus, Heidelberg University, Germany*
A comparison of modeling approaches for the spread of prion diseases in the brain
- *Łukasz Madej, P.D. Hodgson, M. Pietrzyk, AGH University of Science and Technology, Cracow, Poland*
Criteria for development of the strain localization during deformation in the multi scale analysis model
- *Marek Danielewski, Bartłomiej Wierzbą, Maciej Pietrzyk, AGH University of Science and Technology, Cracow, Poland*
The Stress Field induced Diffusion
- *Maciej Hrebien, Józef Korbicz, University of Zielona Góra, Poland*
Fingerprint identification based on minutiae points
- *Łukasz Rauch, Jan Kusiak, AGH University of Science and Technology, Cracow, Poland*
Image Filtering using the Dynamic Particles Method
- *Krzysztof Kozłowski, Dariusz Pazderski, Technical University of Poznań, Poland*
Posture stabilization of a 3-link nonholonomic manipulator - two control approaches
- *Jerzy Garus, Naval University in Gdynia, Poland*
Model Reference Adaptive Control of Underwater Robot in Horizontal Motion
- *Norbert Mielczanek, Ryszard Porada, Technical University of Poznań, Poland,*
Modeling of chaotic systems in program ChaoPhS
- *Bogdan Ambrozek, Technical University of Szczecin, Poland*
The Simulation of Cyclic Thermal Swing Adsorption (TSA) Process
- *Vsevolod Vladimirov, AGH University of Science and Technology, Cracow, Poland*
Large Model of a tribological sensor, contacting rotating disc
- *Christian Merkwirth, Joerg Wichard, Maciej Ogorzalek, Jagiellonian University, AGH University of Science and Technology, Cracow, Poland*
ENTOOL - A Matlab Toolbox for Statistical Learning and Heterogenous Ensembling
- *V.N.Sidorets, Paton Welding Institute, Kyiv, Ukraine*
The bifurcations and chaotic oscillations in electric circuits with ARC
- *Wojciech Mitkowski, Pawel Skruch, AGH University of Science and Technology, Cracow, Poland*
Feedback stabilization of distributed parameter gyroscopic systems
- *Wojciech Mitkowski, Pawel Skruch, AGH University of Science and Technology, Cracow, Poland*
Stabilization results of second order systems with delayed positive feedback