



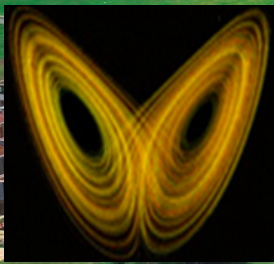
Fourth International Workshop on Nonlinear Dynamics and Synchronisation - INDS'15

July 31st. 2015



Workshop Program Day 1

Time		Session	
15:00	-	18:00	Registration start and information for questions



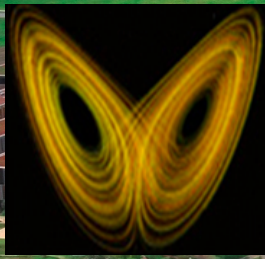
Fourth International Workshop on Nonlinear Dynamics and Synchronisation - INDS'15

July 30rd. - 31st. 2015



Workshop Program Day 2

Time	Session
08:00 - 08:45	Workshop Registration
08:45 - 09:00	Opening Ceremony Moderated by Prof. Kyandoghene Kyamakya
09:00 - 10:00	Keynote 1: Asst. Prof. Dr. Jens Anders Ulm University, Germany
10:00 - 11:00	Keynote 2: Prof. Yamir Moreno University of Zaragoza, Spain
11:00 - 11:30	Coffee Break
11:30 - 12:30	Keynote 3: Dr. Jobst Heitzig PIK Potsdam, Germany
12:30 - 12:35	Poster Teaser (1 Slide per Poster and max. 2 minutes)
12:35 - 14:00	Lunch Break & Poster Session
14:00 - 16:45	Paper Presentation
14:00 - 14:30	4-Dimensional Polynomial Dynamical Systems with Prescribed Algebraic Limit Cycles using Nambu Brackets R. Mathis, W. Mathis
14:30 - 15:00	Travelers of the second modernity. Reflections on the non-linearity of mobility. O. Mitrea
15:00 - 15:30	First and Second Order Sliding Mode Control for Linearisable Chaotic Systems: A comparative Analysis B. O. Mushage, J. C. Chedjou, K. Kyamakya, N. A. Nkiediel, M. T. Muhire, K. H. Shabani, K. A. Kazadi
15:30 - 15:45	Coffee Break
15:45 - 16:15	On Speeding-up the Solving of ODE's Using OpenCL V. Tavakkoli, K. Kyamakya
16:15 - 16:45	Toward Multivaluedness Aspects in Self-organization, Complexity and Computations Investigations A. Makarenko
16:45 - 17:00	Closing Ceremony Moderated by Prof. Kyandoghene Kyamakya
17:00 - 19:00	Cold Beer Session



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Poster Session

A Novel Real-Time EEG-Based Emotion Recognition System for Advanced Driver Assistance Systems (ADAS)
M. Ali, A. Haj Mosa, F. Al Machot, K. Kyamakya

Chaos Modulation for EMI Reduction in DC-DC Converters
Y. Song, Z. Li, J. Niu, W. A. Halang

Improved Convergence Through Continuous Model for Solving Discrete Problems
S. P. K. Veeranki, N. A. Akwir, J. C. Chedjou, K. Kyamakya

Realization of a Neural Network and its Application to Sliding Mode Control of non-linear Robot Dynamics
L-M. Faller, A. Rojko, H. Zangl

Reducing Electromagnetic Interference in Commercial Power Supplies with Chaotic Modulation
J. Niu, Z. Li, Y. Song, W. A. Halang

Stabilization and Synchronisation of Complex Networks with Nodes of Different Coupling Time-delays and Different Dimensions
M. Tan, X. Zhou, W. Tian, Z. Li

A Novel Boost Converter with High Voltage Gain
G. Zhang, Z. Li, B. Zhang, D. Qiu, L. Yang, W. A. Halang

Traffic Characteristics on Highway: Bifurcation Analysis and Basins of Attraction
N. A. Akwir, J.C. Chedjou, K. Kyamakya, S.P. K. Veeranki, B. O. Mushange, M. T. Mugisha, K. H. Shabani, K. A. Kayisu

Ultrafast Solving of the Linear Algebraic Equation $AX=Y$ with Cellular Neural Networks
V. Tavakkoli, K. Kyamakya

Poster and Video presentation of the Driving-Simulator of the Institute