



Day 1: July 25th, 2011

Time	Location	Event	Session Chair
08:00 - 08:30	Foyer 1 st floor	Registration	
08:30 - 09:00	HS B	Opening	W. Mathis H. Lengauer (Vize Rector)
09:00 - 10:25	HS B	<u>Keynote:</u> Electromagnetics, systems theory, fluid dynamics and some fundamentals in physics Prof. Alfred Fettweis (Ruhr-Universität Bochum, Germany)	W. Halang
10:25 - 10:40	Foyer 1 st floor	Coffee break	
10:40 - 12:05	HS B	<u>Keynote:</u> Speeding up linear consensus in networks Prof. Martin Hasler (EPFL, Switzerland)	W. Halang
12:05 - 12:15	HS B	Poster Teaser 1	K. Kyamakya
12:15 - 13:00	Foyer basement	Lunch	
Poster Session 1: Nonlinear Dynamics and Synchronization (NDS) & Presentation of DEMOS by "INTEL"			
		A Robust and Optimal LQR Controller Design for Electric Power Steering System Christian Chitu*; Jochen Lackner*; Martin Horn*; Helmut Waser~; Markus Kohlböck~ <i>(*Alpen-Adria University Klagenfurt, Austria; ~Magna Powertrain AG & Co KG, Austria)</i>	
		Data Reconciliation and Bias Estimation in On-Line Optimisation Moufid Mansour <i>(University of Science and Technology, Algeria)</i>	
		CNN Based High Performance Computing for Real Time Image Processing on GPU Sasanka Potluri*; Alireza Fasih*; Laxminand Kishore Vutukuru*; Fadi Al Machot*; Kyandoghere Kyamakya* <i>(*Alpen-Adria University Klagenfurt, Austria)</i>	

13:00 - 13:30	Foyer 1 st floor	Adaptive Contrast Enhancement Involving CNN-based Processing for Foggy Waether Conditions & Non-Uniform Lighting Conditions Christopher Schwarzlmüller*; Fadi Al Machot*; Alireza Fashi*; Kyandoghere Kyamakya* <i>(*Alpen-Adria University Klagenfurt, Austria)</i>	
		A Novel Real-Time Emotion Detection System from Audio Streams Based on Bayesian Quadratic Discriminate Classifier for ADAS Fadi Al Machot*; Ahmad Haj Mosa~; Kosai Dabbour#; Alireza Fasih*; Christopher Schwarzlmüller*; Mouhanndad Ali~; Kyandoghere Kyamakya* <i>(*Alpen-Adria University Klagenfurt, Austria; ~Carinthia University of Applied Sciences, Austria; #University of Potsdam, Germany)</i>	
		Realization of Synchronization of Coupled Multiple Delay Systems on FPGA Platform Viet-Thanh Pham*; Mattia Frasca*; Luigi Fortuna*; Tran Tuan Anh~; Thang Manh Hoang~ <i>(*University of Catania, Italy; ~Hanoi University of Science and Technology, Vietnam)</i>	
13:30 - 14:30	HS B	<u>Keynote:</u> Intel Software Development tools-Addressing Coding and analysis of C++ and fortran applications Edmund Preis*; Sören Plönnings~ <i>(*Intel; ~Institute Theoretical Electrical Engineering Hannover, Germany)</i>	W. Mathis
14:30 - 14:45	Foyer 1 st floor	Coffee break	
Parallel Sessions P1 and P2			
15 minutes presentation + 5 minutes discussion	P1: Nonlinear Dynamics, chaos and Synchronization - 1 (NDS-1) HS B H. Buchachia		P2: Electromagnetics and Electrical Engineering - 1 (EEE-1) HS C Z.Li
14:45 - 15:05	Impulsive Control for the Synchronization of Stochastic Dynamical Networks Jianquan Lu*; Jürgen Kurths*; Nariman Mahdavi*; Jinde Cao* <i>(*Humboldt University, Germany)</i>		Spherical-Multipole Analysis of Electromagnetic Scattering by an Elliptic Cone Ludger Klinkenbusch*; Michael Kijowski* <i>(*Christian-Albrechts-Universität zu Kiel, Germany)</i>

15:05 - 15:25	Self-Adaptive Attractor-Shaping for Oscillators Networks Julio Rodriguez*; Max-Olivier Hongler*; Philippe Blanchard~ <i>(*Ecole Polytechnique Federale de Lausanne, Switzerland; ~Universität Bielefeld, Germany)</i>	Electromagnetic Forces in Synchronous Turbogenerator Rotor Slot Wedges Mykhailo G. Panteliat*; Oszkar Bíró*; Andrej Stermecki* <i>(*Graz University of Technology, Austria)</i>
15:25 - 15:45	Image Edge Detection with Discretely Spaced FitzHugh-Nagumo Type Excitable Elements Atsushi Nomura*; Makoto Ichikawa~; Koichi Okada*; Hidetoshi Miike*; Tatsunari Sakurai~; Yoshiki Mizukami* <i>(*Yamaguchi University, Japan; ~Chiba University, Japan)</i>	SPICE Model for Effective and Accurate Time Domain Simulation of Power Transformers Lucian Mandache*; Dumitru Topan*; Mihai Iordache~; Ioana Gabriela Sirbu* <i>(*University of Craiova, Romania; ~University Politehnica of Bucharest, Romania)</i>
15:45 - 16:05	Geometrical Interpretation of Jump Phenomena in Nonlinear Dynamical Circuits Tina Thiessen*; Wolfgang Mathis* <i>(*University of Hannover, Germany)</i>	2D Computation and Measurement of Electric and Magnetic Fields of Overhead Electric Power Lines Slavko Vujević*; Dino Lovrić*; Tonči Modrić* <i>(*University of Split, Croatia)</i>
16:05 - 16:20	Foyer 1st floor	Coffee break
16:20 - 16:40	Synchronization of Flashing Electronic Oscillators Erna Káptalan*; Zsuzsa Sárközi*; Arthur Tunyagi*; Szilárd Boda*; Zoltán Nédá* <i>(*Babes-Bolyai University, Romania)</i>	Advanced Adaptive Algorithms in Finite Element Method of Higher Order of Accuracy Ivo Dolezel*; Pavel Karban~; Frantisek Mach~; Bohus Ulrych~ <i>(*Czech Technical University, Czech Republic; ~University of West Bohemia, Czech Republic)</i>

16:40 - 17:00	Synchronization of multi-directional multi-scroll chaos generators: A Hamiltonian approach Ernesto Zambrano-Serrano*; Jesus Manuel Muñoz-Pacheco~; Olga Félix-Beltran*; Rodolfo Trejo-Guerra#; Luz del Carmen Gómez-Pavón*; Esteban Tlelo-Cuautle#; Carlos Sánchez-López%; Arnulfo Luis-Ramos* (<i>*BUAP, Mexico; ~Polytechnic University of Puebla, Mexico; #National Institute for Astrophysics, Optics and Electronics, Mexico; %UAT, IMSE and University of Sevilla, Mexico & Spain</i>)	Numerical Modelling of Terahertz Systems for Nondestructive Evaluation of Dielectric Materials Przemyslaw Lopato*; Tomasz Chady*; Ryszard Sikora*; Stanislaw Gratkowski*; Marcin Ziolkowski* (<i>*West Pomarian University of Technology, Poland</i>)
17:00 - 17:20	Time-of-Flight Estimation using Synchronized Chaotic Systems Christian Wallinger*; Markus Brandner* (<i>*Graz University of Technology, Austria</i>)	The difference between voltage and potential difference Slavko Vujević*; Tonči Modrić*; Dino Lovrić* (<i>*University of Split, Croatia</i>)
17:20 - 17:40	Toward Complex Behavior and Synchronization in Networks and Chaos with Strong Anticipation Oleksandr S. Makarenko (<i>National Technical University of Ukraine "KPI", Ukraine</i>)	Electrodynamics of Moving Bodies Systematic Foundation of EM Theory Branko Mišković (<i>Independent, Serbia</i>)
17:40 - 18:00	Foyer 1 st floor	Cold Beer Session
19:00 - 23:00	Social Event	