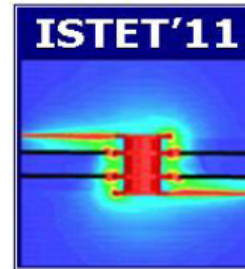


**Joint Conference**  
**3<sup>rd</sup> INDS'11 & 16<sup>th</sup> ISTET'11**  
**THIRD INTERNATIONAL WORKSHOP ON NONLINEAR DYNAMICS AND SYNCHRONIZATION -- INDS'11**  
 &  
**SIXTEENTH INTERNATIONAL SYMPOSIUM ON THEORETICAL ELECTRICAL ENGINEERING -- ISTET'11**  
**JULY 25 - 27, 2011**  
**UNIVERSITY OF KLAGENFURT (KLAGENFURT; AUSTRIA)**



**ALPEN-ADRIA UNIVERSITÄT**  
KLAGENFURT | WIEN GRAZ



## Day 3: July 27th, 2011

Time	Location	Event	Session Chair
09:00 - 10:25	HS B	<u>Keynote:</u> <b>Dr. Gerd Heinz: Two Decades of Interference Network Research</b> Dr. Gerd Heinz <i>(GFAI Berlin, Germany)</i>	M. Huemer
10:25 - 10:40	Foyer 1 <sup>st</sup> floor	Coffee break	
10:40 - 12:05	HS B	<u>Keynote:</u> <b>The Compram methodology a multidisciplinary approach for handling complex societal problems</b> Prof. Dorien DeTombe <i>(Amsterdam, Netherlands)</i>	M. Huemer
12:05 - 12:15	HS B	Poster Teaser 3	K. Kyamakya
12:15 - 13:10	Foyer basement	Lunch	
13:10 - 13:30	Foyer 1st floor	Poster Session 3: Presentation of DEMOS by "INTEL"	
13:30 - 13:45	Foyer 1 <sup>st</sup> floor	Coffee break	
Parallel Sessions P5 and P6			
15 minutes presentation + 5 minutes discussion	<b>P5: Nonlinear Dynamics, chaos Synchronization - 2 (NDS-2)</b> HS B J. C. Chedjou	<b>P6: Control, Analog Circuits and Measurements (CACM)</b> HS C C. Chitu	
13:45 - 14:05	<b>Frequency limitations from the circuit realization of Saw-tooth based Multi-scroll Oscillators</b> Rodolfo Trejo-Guerra*; Esteban Tlelo-Cuautle*; Jesus Manuel Muñoz-Pacheco~; Carlos Sánchez-López#	<b>An Improvement of Particle Swarm Optimization and its Application to a Model-Free PI<sup>λ</sup> D<sup>μ</sup> Tuning Problem</b> Deniz Sevis*; Yagmur Danizhan*	

	<p>(*National Institute for Astrophysics, Optics and Electronics, Mexico; ~Polytechnic University of Puebla, Mexico; #UAT, IMSE-CNM CISC-US, Mexico and Spain )</p>	<p>(*Bogazici University, Turkey)</p>
<p>14:05 - 14:25</p>	<p><b>Nonlinear Dynamics of a Liénard Delayed-Feedback Optoelectronic Oscillator</b></p> <p>Bruno Romeira*; José Figueiredo*; Charles Ironside~; Kris Seunarine~; Julien Javaloyes#</p> <p>(*Universidade of Algarve, Portugal; ~University of Glasgow, United Kingdom; #Universitat de les Illes Balears, Spain)</p>	<p><b>Constant switching frequency techniques for sliding mode control in DC-DC converters</b></p> <p>Matteo Agostinelli*; Robert Priewasser*; Stefano Marsili~; Mario Huemer*</p> <p>(*Alpen-Adria University Klagenfurt, Austria; ~Infineon Technologies Austria AG, Austria)</p>

14:25 - 14:45	<p><b>"Multi-moment" Nonlinear Filtering of Chaos</b></p> <p>Valeri Ya Kontorovich*; Zinaida Lovtchikova~</p> <p>(*Cinvestav-IPN, Mexico; ~UPIITA-IPN, Mexico)</p>	<p><b>Nonlinear Adaptive Control of a Continuous Stirred Tank Reactor with Time Varying Parameters</b></p> <p>Ehsan Moshksar*; Faridoun Shabani-Nia*; Reza Eslamloueyan*</p> <p>(*Shiraz University, Iran)</p>
14:45 - 15:05	<p><b>Stability of Linear Circuits with Interval Data: A Case Study</b></p> <p>Zygmunt Garczarczyk</p> <p>(Silesian University of Technology, Poland)</p>	<p><b>Socio-Technical Requirements for the System Dynamics Modeling of the Driving Action Chains in Cooperative Traffic Systems</b></p> <p>Oana Mitrea</p> <p>(IFZ, University of Klagenfurt, Austria)</p>
15:05 - 15:20	<b>Foyer 1<sup>st</sup> floor</b>	<b>Coffee break</b>
15:20 - 15:40	<p><b>Applications of System Dynamics for Communities Detection in Complex Networks</b></p> <p>Nikolai Nefedov</p> <p>(Nokia Research Center, Switzerland)</p>	<p><b>Automatic Synthesis of Chaotic Attractors Using Surrogate Functions</b></p> <p>Carlos Sánchez-López*; Jesus Manuel Muñoz-Pacheco~; Victor Carbajal-Gómez#; Rodolfo Trejo-Guerra#; Esteban Tlelo-Cuautle#</p> <p>(*UAT, IMSE-CNM and CISC-US, Mexico and Spain; ~Polytechnic University of Puebla, Mexico; #National Institute for Astrophysics, Optics and Electronics, Mexico)</p>
15:40 - 16:00	<p><b>Power Quality Improvement for Grid Connected Wind Energy System using FACTS device</b></p> <p>Yuvaraj V*; Pratheep Raj E*; Mowlidharan A*; Thirugnanamoorthy L*</p> <p>(Anna University of Technology, Coimbatore, India)</p>	<p><b>Quantitative Comparisons of Digital Chaotic Circuits for use in Communications</b></p> <p>Alan J Michaels</p> <p>(Harris Corporation, USA)</p>
16:00 - 16:20	<p><b>Implementation of Fractal Image Encoding/Decoding on DSP</b></p> <p>Duong Phu Thai*; Nguyen Tien Dzung*; Thang Manh Hoang*; Tony de Souza-Daw~</p> <p>(*Hanoi University of Technology, Vietnam; ~Center of Technology, RMIT Vietnam)</p>	<p><b>Characteristics study of an electronic systems design strategy that includes the traditional strategy and the modified traditional strategy</b></p> <p>M. A. San Pablo Juárez*; A. Zemliak*; E. Ríos Silva*</p> <p>(*Benemérita Universidad Autónoma de Puebla, Mexico)</p>

16:20 - 16:40	<p><b>Automatic Detection of Objects in Radiographic Images</b></p> <p>Piotr Baniukiewicz*; Ryszard Sikora*</p> <p><i>(*West Pomeranian University of Technology, Poland)</i></p>	<p><b>Hardware-Software Co-Simulation Environment for a Multiplier Free Blocker Detection Approach for LTE Systems</b></p> <p>Vajje Sravanthi*; Thomas Schlechter*</p> <p><i>(*Alpen-Adria University Klagenfurt, Austria)</i></p>
16:40 - 17:00	HS B	Closing Session: Fedback and diverse announcements
17:00 - 17:30	Foyer 1 <sup>st</sup> floor	Cold Beer Session