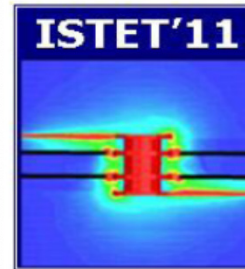**INDS'11**

**Joint Conference**
**3rd INDS'11 & 16th 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 I WIEN GRAZ

**ISTET'11**

## Day 2: July 26th, 2011

| Time | Location | Event | Session Chair |
|---|---|---|---|
| 09:00 - 10:25 | HS B | **Keynote:**<br><br>**From Huygens' odd sympathy to the energy extraction from the sea waves**<br>Prof. Tomasz Kapitaniak<br><br>*(Technical University of Lodz, Poland)* | **M. Horn** |
| 10:25 - 10:40 | **Foyer 1st floor** | **Coffee break** | |
| 10:40 - 12:05 | HS B | **Keynote:**<br>**Electronic circuits predict failure of prominent algorithms used in bioinformatics**<br>Prof. Ruedi Stoop<br>*(ETH Zurich, Switzerland)* | **M. Horn** |
| 12:05 - 12:15 | HS B | Poster Teaser 2 | **K. Kyamakya** |
| 12:15 - 13:00 | **Foyer basement** | **Lunch** | |
| | | **Poster Session 2:**<br>**Nonlinear Dynamics and Synchronization (NDS)**<br>**& Presentation of DEMOS by "INTEL"** | |
| 13:00 - 13:30 | Foyer 1st floor | **Chaotic Modulation based on the Combination of CPPM and CPWM**<br><br>Nguyen Xuan Quyen*; Vu Van Yem*; Thang Manh Hoang*<br><br>*(*Hanoi University of Science and Technology, Vietnam)* | |
| | | **Extended radiography system for identification of defect position in three dimensions**<br>Wojciech Chlewicki*; Piotr Baniukiewicz*; Tomasz Chady*; Andrzej Brykalski*<br>*(*West Pomeranian University of Technology, Poland)* | |
| | | **Implementation of Chaotic Pulse-Position Modulation on FPGA**<br>Nguyen Tien Dat*; Thang Manh Hoang*<br><br>*(*Hanoi University of Science and Technology, Vietnam)* | |

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| | | **Determining the Range of the Active and Reactive Power in AC Interval Parameter Circuits**<br><br>Lubomir Kolev<br><br>*(Technical University of Sofia, Bulgaria)* |
| | | **Hard-Coupled Modeling of Induction Shrink Fit to Gas-Turbine Active Wheel**<br><br>Václav Kotlan*; Pavel Karban*; Bohus Ulrych*; Ivo Dolezel~; Pavel Kus~<br><br>*(\*University of West Bohemia, Czech Republic; ~ Czech Technical University, Czech Republic)* |
| **13:30 - 13:45** | **Foyer 1<sup>st</sup> floor** | **Coffee break** |
| **Parallel Sessions P3 and P4** | | |
| **15 minutes presentation + 5 minutes discussion** | **P3: Electromagnetics and Electrical Engineering - 2 (EEE-2)**<br>**HS B**<br>**H. Buchachia** | **P4: Applications of Nonlinear Dynamics, chaos and Synchronization (A-NDS)**<br>**HS C**<br>**I. Sim** |
| **13:45 - 14:05** | **Oepomo's Algorithm for Computing Eigenvalue in System Engineering**<br><br>Tedja S Oepomo<br><br>*(West LA, LA Harbor Colleges, California International University and National University, USA)* | **Study of the $PM_{10}$ Pollution Using Signal Analysis Methods**<br><br>Krzystof Siwek*; Stanislaw Osowski*; Bartosz Swiderski~<br><br>*(\*Warsaw University of Technology, Poland; ~University of Life Sciences, Poland)* |
| **14:05 - 14:25** | **Output-to-Spectrum Assignment Algorithm for a LTE Cognitive Radio Filter Bank**<br>Thomas Schlechter<br><br>*(Alpen-Adria University Klagenfurt, Austria)* | **A Method for Validation the Limit Cycles of High Order Sigma-Delta Modulators**<br>Valeri Mladenov<br><br>*(Technical University of Sofia, Bulgaria)* |
| **14:25 - 14:45** | **Analysis of Square Coaxial Lines by using Equivalent Electrodes Method**<br><br>Alenka Milovanovic*; Branko Koprivica*<br><br>*(\*University of Kragujevac, Serbia)* | **Stability Analysis of Recurrent Neural Networks with Time-Varying Activation Functions**<br>Mohamad Mostafa*; Werner G. Teich*; Jürgen Lindner*<br><br>*(\*University of Ulm, Germany)* |

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| **14:45 - 15:05** | **Ground impedance of cylidrical metal plate buried in homogeneous earth**<br><br>Slavko Vujević*; Zdenko Balaz~; Dino Lovrić*<br><br>*(\*University of Split, Croatia; ~Croatian Motorways Ltd., Croatia)* | **Computer-Aided Extraction of Small-Signal Model Parameters of Heterojunction Bipolar Transistors**<br><br>Elissaveta Gadjeva*; Marin Hristov*<br><br>*(\*Technical University of Sofia, Bulgaria)* |
| **15:05 - 15:20** | **Foyer 1ˢᵗ floor** | **Coffee break** |
| **15:20 - 15:40** | **Analysis and Comparison of the Analitical and Experimental methods modeling the Electrostatic Field**<br><br>Simona Filipova-Petrakieva*; Kiril Stoykov*; Valeri Mladenov*<br><br>*(\*Technical University Sofia, Bulgaria)* | **Intelligent System for Radiogram Analysis - software application**<br><br>Ryszard Sikora*; Tomasz Chady*; Piotr Baniukiewicz*; Przemyslaw Lopato*; Lech Napierala*; Tomasz Pietrusewicz*; Grzegorz Psuj*<br><br>*(\*West Pomeranian University of Technology, Szczecin, Poland)* |
| **15:40 - 16:00** | **Waveguide flange's shape optimization in microwave enhanced infrared landmines' detection**<br><br>Barbara Szymanik*; Stanislaw Gratkowski*<br><br>*(\*West Pomeranian University of Technology, Poland)* | **Higher Order Sigma-Delta Modulator Loopfilter Paralel From Representation In Z And S Domain**<br><br>Georgi Tsenov*; Valeri Mladenov*<br><br>*(\*Techical University of Sofia, Bulgaria)* |
| **16:00 - 16:20** | **Fully Time-Domain Simulation of Multiconductor Transmission Line Systems**<br><br>Lubomír Brančík*; Bretislav Sevćík*<br><br>*(Brno University of Technology, Czech Republic)* | **Toward Ultrasound Detection of Acoustic Windows for Transcarnial Doppler Ultrasound and related**<br>Tony Souza-Daw*; Thang Manh Hoang~; Tien Dzung Nguyen~<br>*(\*RMIT Vietnam, Vietnam; ~Hanoi University of Science and Technology, Vietnam)* |
| **16:20 - 16:40** | **Equations of Electrodynamics - Final Essence of EM Phenomena**<br><br>Branko Mišković<br><br>*(Independent, Serbia)* | **Non-intrusive Car Driver's Emotion Recognition Using Thermal Camera**<br><br>Abhiram Kolli*; Alireza Fasih*; Fadi Al Machot* ; Kyandoghere Kyamakya*<br><br>*(\*Alpen-Adria University Klagenfurt, Austria)* |
| **16:40 - 17:00** | **Foyer 1ˢᵗ floor** | **Cold Beer Session** |