The 10th International Conference on Development and Application Systems DAS 2010

May 27-29, 2010
Suceava - Romania

www.dasconference.ro

Conference Program

Organized by

Stefan cel Mare University of Suceava
Faculty of Electrical Engineering
and Computer Science

The 10th International Conference on **Development and Application Systems**, organized by *the Faculty of Electrical Engineering and Computer Science, Stefan cel Mare University of Suceava*, has four sections:

A - Systems, Processes Control and Automations

B - Communications and Computer Networks

C - Electronics and Computer Aided Engineering

D - Software Engineering and Information Technologies

The scope of the Conference is to bring together specialists from universities, research institutes and companies for useful ideas exchanges regarding concerns in their domains. The latest progresses in these fields as well as the newest scientific and technical results will be presented and discussed during the Conference.

Participant registration will take place in Building D, first Floor, on May 26 between 8 AM and 8 PM and on May 27, between 8 AM and 9 AM.

CONTACT INFORMATION

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Thursday - May 27, 2010

Aula, Building E

09:00 - 09:30   Opening Session

Welcome message addressed by
Adrian GRAUR
DAS 2010 Chair
Rector of Stefan cel Mare University of Suceava

09:30 - 10:20   Plenary Session

Keynote Address

Core Sensor Integration Technologies for Advanced Electrical Drives and Power Converters
Robert D. LORENZ
IEEE Fellow
Department of Mechanical Engineering
University of Wisconsin-Madison
USA

10:30 - 11:00   Coffee break

11:00 - 11:50   Plenary Session

Keynote Address

Power-Electronic Issues of Modern Railway Systems
Andreas STEIMEL
IEEE Senior Member
Department of Electrical Engineering and
Information Sciences
Ruhr University Bochum
GERMANY

Friday - May 28, 2010

Aula, Building E

09:00 - 09:40   Plenary Session

Keynote Address

New Advances and Possibilities in Active Circuit Design

Hakan KUNTMAN

Faculty of Electrical and Electronics Engineering
Istanbul Technical University
TURKEY

09:40 - 10:20   Plenary Session

Keynote Address

Taking customers into new worlds: interaction, images

Christophe CHAILLOU

Fundamental Informatics Laboratory
University of Lille 1
FRANCE

10:30 - 11:00   Coffee break

Thursday - May 27, 2010

Dimitrie Leonida Lecture Theatre, Building D

Section A
Systems, Processes Control and Automations

Session Co-Chairs

Sergey RYVKIN
Trapeznikov Institute of Control Sciences of Russian Academy of Sciences, Russia
Cornel TURCU
Stefan cel Mare University of Suceava, Romania
Vasile GĂITAN
Stefan cel Mare University of Suceava, Romania

12:30 - 13:30   Section A - Day 1 - Session 1

12:30 - 12:45 - Paper ID: 114
A Short Survey on Applications of Rough Sets Theory in Power Engineering
Ioana PISICĂ, Petru POSTOLACHE
Politehnica University of Bucharest, Romania

12:45 - 13:00 - Paper ID: 116
Middleware Based Model of Heterogeneous Systems for SCADA Distributed Applications
Nicoleta-Cristina GĂITAN, Vasile Gheorghiță GĂITAN, Ștefan Gheorghe PENTIUC, Ioan UNGUREAN, Eugen DODIU
Stefan cel Mare University of Suceava, Romania

13:00 -13:15 - Paper ID: 33
Option to provide the necessary feedback for Closed-Loop neuroStimulation
Radu BAZAVAN, Rodica STRUNGARU
Gh. Asachi Technical University of Suceava, Romania

Section A

13:15 - 13:30 - Paper ID: 35
Obstacle Avoidance Fuzzy System for Mobile Robot with IR Sensors
C. G. RUSU, I. T. BIROU
Technical University of Cluj-Napoca, Romania

13:30 - 15:00   Lunch

15:00 - 17:00   Section A - Day 1 - Session 2

15:00 - 15:15 - Paper ID: 37
Hazardous events monitoring system in a hospital
Radu ȚIGĂNESCUL-AMARIȚII
Stefan cel Mare University of Suceava, Romania

15:15 - 15:30 - Paper ID: 40
Real-time Communications for Distributed Control Systems
Dan PUIU, Florin MOLDOVEANU, Caius SULIMAN
Transilvania University of Brasov, Romania

15:30 - 15:45 - Paper ID: 41
Design and Comparison of Different Switched Reluctance Machines Topologies for Automotive Applications
Claudia MARTIS [1], Vlad PETRUS [1], Adrian-Cornel POP [1], Johan GYSELINCK [2]
[1] Technical University of Cluj-Napoca, Romania
[2] Université Libre de Bruxelles, Belgium

15:45 - 16:00 - Paper ID: 42
The VSB-01 portable system for monitoring environmental conditions
Alexandru SUCIU, Vasile BUZDUGA, Gabriela VIZITIU
Stefan cel Mare University of Suceava, Romania

16:00 - 16:15 - Paper ID: 46
Computer Program for Studying the Operation of Gas Turbine Plants
Pavel ATĂNĂSOAE, Gicu OICĂ
Combined Heat and Power Plant of Suceava, Romania

Section A

16:15 - 16:30 - Paper ID: 47
Kalman Filter Based Tracking in an Video Surveillance System
Caius SULIMAN, Cristina CRUCERU, Florin MOLDOVEANU
Transilvania University of Brasov, Romania

16:30 - 16:45 - Paper ID: 51
*A fuzzy approach regarding the optimization of statistical
process control through Shewhart control charts*
Alexandru-Mihnea SPIRIDONICĂ, Marius PISLARU, Romeo-
Cristian CIOBANU
Gh. Asachi Technical University of Iasi, Romania

16:45 - 17:00 - Paper ID: 58
*The use of fuzzy modeling regarding the assurance of
environmental protection*
Alexandru-Mihnea SPIRIDONICA, Marius PISLARU
Gh. Asachi Technical University of Iasi, Romania

Section A

Friday - May 28, 2010

Dimitrie Leonida Lecture Theatre, Building D

Section A
Systems, Processes Control and Automations

Session Co-Chairs

Sergey RYVKIN
Trapeznikov Institute of Control Sciences of Russian Academy of Sciences, Russia
Cornel TURCU
Stefan cel Mare University of Suceava, Romania
Vasile GĂITAN
Stefan cel Mare University of Suceava, Romania

11:00 - 13:30   Section A - Day 2 - Session 1

11:00 - 11:15 - Paper ID: 57
Multiagent System for Robotic Vision System
Dan FLOROIAN, Florin MOLDOVEANU, Mihai CERNAT
Transilvania University of Brasov, Romania

11:15 - 11:30 - Paper ID: 63
Experience-based design and simulations of a fuzzy control system for cardiovascular variables
Cristian BOLDIŞOR Vasile COMNAC, Iulian ȚOPA
Transilvania University of Brasov, Romania

11:30 - 11:45 - Paper ID: 64
A methodology of power demand prediction
Corina MARTINEAC [1], Oana ONET [1], Simona ARDELEAN [1], Claudiu VERMEŞAN [2], Mihai HOPÎRTEAN [3], Tudor VESA [1]
[1]*Technical University of Cluj-Napoca*
[2] *FDEE Electrica Distribuție Transilvania Nord, Romania*
[3] *Utrecht University, The Netherlands*

Section A

11:45 - 12:00 - Paper ID: 73
µC OS-II real time kernel port for Cirrus Logic EP93xx platform
Eugen DODIU, Adrian GRAUR, Cristina N. GAITAN, Vasile G. GAITAN, Adrian M. GAITAN
Stefan cel Mare University of Suceava, Romania

12:00 - 12:15 - Paper ID: 77
Analytic method for determination of the amplitude-phase transmission errors between selsyns
Gabriel GHIDUS, Alecsandru SIMION, Leonard LIVADARU, Sorin MIHAI
Gh. Asachi Technical University of Iasi, Romania

12:15 - 12:30 - Paper ID: 81
Thunderstorms as Interactive Component of Global Ecodynamics
V.F. KRAPIVIN [1], C. NITU [2], V.Yu. SOLDATOV [1]
[1] *V.A. Kotelnikov Institute of Radioengineering and Electronics, Russian Academy of Sciences, Russia*
[2] *Politehnica University of Bucharest, Romania*

12:30 - 12:45 - Paper ID: 84
Analysis and simulation of unbalanced systems
Virgil MAIER, Antoniu TURCU, Sorin PAVEL, Iulian BIROU
Technical University of Cluj-Napoca

12:45 - 13:00 - Paper ID: 90
Hybrid Electric Vehicle Experimental Model with CAN Network Real Time Control
Gheorghe LIVINȚ, Vasile HORGA, Daniel STICEA, Marcel RĂȚOI, Mihai ALBU
Gh. Asachi Technical University of Iasi, Romania

13:00 - 13:15 - Paper ID: 92
The Iterative Algorithm of Tuning Controllers to the Model Object with Advance Delay and Inertia Second Order
Bartolomeu IZVOREANU
Technical University of Moldova, Republic of Moldova

13:15 - 13:30 - Paper ID: 93
Tuning Controllers in the Multiple-Loop Feedback Control System to the Objects with Inertia, Time Delay and Non Minimal Phase
Irina COJUHARI
Technical University of Moldova, Republic of Moldova

Section A

13:30 - 15:00   Lunch

15:00 - 15:30   Section A - Day 2 - Session 2

15:00 - 15:15 - Paper ID: 104
*Fuzzy model for sustainability assurance related to
environmental protection*
Marius PISLARU, Alexandru TRANDABAT, Cristina SCHREINER,
Alexandru SPIRIDONICA
Gh. Asachi Technical University of Iasi, Romania

15:15 - 15:30 - Paper ID: 113
*Mechanical-electrical Optoisolator Transducer with current-to-
frequency conversion*
Ioan Marcel CIURUŞ, Mihai DIMIAN, Adrian GRAUR
Stefan cel Mare University of Suceava

Section A

Thursday - May 27, 2010

Nicolae Boțan Lecture Theatre, Building D

Section B
Communications and Computer Networks

Session Co-Chairs

Lieven De STRYCKER
Katholieke Hogeschool Sint-Lieven, Gent, Belgium
Nicolae Dumitru ALEXANDRU
Gh. Asachi Technical University of Iasi, Romania
Alin Dan POTORAC
Stefan cel Mare University of Suceava, Romania

12:30 - 13:00   Invited Speaker

Invited Address

*Improved Pulses Generated By Piece-wise Parabolic
Nyquist Filters*
Nicolae Dumitru ALEXANDRU
Gh. Asachi Technical University of Iasi
ROMANIA

13:00 - 13:30   Section B - Day 1 - Session 1

13:00 - 13:15 - Paper ID: 10
*Time of Arrival Based on Chirp Pulses as a means to Perform
Localization in IEEE 802.15.4a Wireless Sensor Networks*
Anneleen VAN NIEUWENHUYSE, Jeroen WYFFELS,
Jean-Pierre GOEMAERE, Lieven DE STRYCKER
Katholieke Hogeschool Sint-Lieven, Gent, Belgium

13:15 - 13:30 - Paper ID: 102
Data Communications in an HPC Hybrid Cluster and Performance Evaluation
Ovidiu GHERMAN, Ioan UNGUREAN, Ştefan Gheorghe PENTIUC, Oana VULTUR
Stefan cel Mare University of Suceava, Romania

13:30 - 15:00   Lunch

15:00 - 17:00   Section B - Day 1 - Session 2

15:00 - 15:15 - Paper ID: 69
The impacts of temperature on PMD and CD dispersions during high speed optical communications
Stojanović NIKOLA, Miodrag JELIĆ, Miloš SLANKAMENAC, Miloš ŽIVANOV
University of Novi Sad, Faculty of Technical Sciences, Serbia

15:15 - 15:30 - Paper ID: 124
Eigenvalue Characterization of the Sum Capacity of Multi-User MIMO Multiple Access Channels
Paul COTAE
University of the District of Columbia, USA

15:30 - 15:45 - Paper ID: 28
Spectral Analysis of Three Miller-like Codes
Nicolae Dumitru ALEXANDRU
Gh. Asachi Technical University of Iasi, Romania

15:45 - 16:00 - Paper ID: 66
An Optimization of Gaussian UWB Pulses
Adrian POPA
Gh. Asachi Technical University of Iasi, Romania

16:00 - 16:15 - Paper ID: 24
A New Family of CSK Signals
Nicolae Dumitru ALEXANDRU
Gh. Asachi Technical University of Iasi, Romania

Section B

16:15 - 16:30 - Paper ID: 117
LTE eNodeB Demonstrator with Real and Simulated Interfaces
Titus-Constantin BĂLAN [1], Florin SANDU [2], Szilard CSEREY [1], Virgil CAZACU [3]
[1] *SIEMENS Program and System Engineering, Braşov, Romania*
[2] *Transilvania University of Brasov, Romania*
[3] *Bit Defender, Bucureşti, Romania*

16:30 - 16:45 - Paper ID: 118
Simulation of LTE Signaling
Florin SANDU [1], Szilárd CSEREY [2], Eugen MILE-CIOBANU [2]
[1] *Transilvania University of Brasov, Romania*
[2] *SIEMENS Program and System Engineering, Braşov, Romania*

16:45 - 17:00 - Paper ID: 119
BPEL Implementation of QoS-based Management in Multimodal Mobile Communications
Florin SANDU [1], Dan Nicolae ROBU [2], Cosmin COSTACHE [2]
[1] *Transilvania University of Brasov, Romania*
[2] *SIEMENS Program and System Engineering, Braşov, Romania*

Friday - May 28, 2010

Dimitrie Leonida Lecture Theatre, Building D

Section B
Communications and Computer Networks

Session Co-Chairs

Lieven De STRYCKER
Katholieke Hogeschool Sint-Lieven, Gent, Belgium
Nicolae Dumitru ALEXANDRU
Gh. Asachi Technical University of Iasi, Romania
Alin Dan POTORAC
Stefan cel Mare University of Suceava, Romania

11:00 - 12:15   Section B - Day 2 - Session 1

11:00 - 11:15 - Paper ID: 79
New High Performance Deterministic Interleavers for Turbo Codes
Georgian Alexandru LAZAR, Nicoleta Roxana BUZATU, Elena COJOCARIU, Lucian TRIFINA, Razvan VIERU
Gh. Asachi Technical University of Iasi, Romania

11:15 - 11:30 - Paper ID: 25
Some Useful Properties of STBC codes for Residential Applications
Angela DARIE, Mihai GHENGHEA, Ion BOGDAN
Gh. Asachi Technical University of Iasi, Romania

11:30 - 11:45 - Paper ID: 45
A New Evolutionary Approach for Base Station Transmitter Placement
Shahriar MAHBUB, Nusrat SHARMIN
Lucian Blaga University of Sibiu

11:45 - 12:00 - Paper ID: 123
Some Mathematical Fundamentals for a Spacecraft Explorer Communication
Dimitris C. VOUKALIS
Technical University of Piraeus, Greece

12:00 - 12:15 - Paper ID: 100
A Comparative Approach on WiMax and LTE Technologies
Mihai-Florentin URSULEANU, Daniel SIMION, Adrian GRAUR,
Alin Dan POTORAC
Stefan cel Mare University of Suceava, Romania

Thursday - May 27, 2010

Remus Răduleț Lecture Theatre, Building D

Section C
Electronics and Computer Aided Engineering

Session Co-Chairs

Milos ZIVANOV
University of Novi Sad, Serbia
Eugen COCA
Stefan cel Mare University of Suceava, Romania
Mihai RATA
Stefan cel Mare University of Suceava, Romania

12:30 - 13:00   Invited Speaker

Invited Address

Magnetization Dynamics for Nonvolatile Memory Technologies
Leonard SPINU
AMRI & Department of Physics
University of New Orleans, New Orleans
USA

13:00 - 13:30   Section C - Day 1 - Session 1

13:00 - 13:15 - Paper ID: 7
Assigning Connection Sources in Large-Scale Circuits Multilevel Decomposition
Olivian STĂNICĂ
Politehnica University of Bucharest, Romania

13:15 - 13:30 - Paper ID: 11
The modeling of the heating resistors in transient regime
Mitica Iustinian NEACA, Andreea Maria NEACA
University of Craiova, Romania

Section C

13:30 - 15:00   Lunch

15:00 - 17:00   Section C - Day 1 - Session 2

15:00 - 15:15 - Paper ID: 122
Magnetic Properties of Two-Dimensional (2D) Heisenberg Lattices as Good Candidates for Spintronic Junctions
Jacques CURÉLY
University of Bordeaux 1, France

15:15 - 15:30 - Paper ID: 12
Electronic Devices for Determining the Working Length in Root Canal Therapy
Anca POPESCU
Politehnica University of Bucharest, Romania

15:30 - 15:45 - Paper ID: 121
Embedded System for Start-of-ICE with Hybrid Battery-Supercapacitor Sources
Aurel Cornel STANCA [1], Venetia SANDU [1], Iuliu SZEKELY [2]
[1] *Transilvania University of Braşov, Romania*
[2] *Sapientia University of Târgu- Mureş, Romania*

15:45 - 16:00 - Paper ID: 19
A study in binary relations for logic algebra functions
Ion COJOCARU, Andrei VASILĂȚEANU, Octavian IONEL
Politehnica University of Bucharest, Romania

16:00 - 16:15 - Paper ID: 20
Study of binary relations of Boolean algebra functions
Ion COJOCARU, Octavian IONEL
Politehnica University of Bucharest, Romania

16:15 -16:30 - Paper ID: 29
Sensitivity and Tolerance Analysis in Analog Circuits Using Symbolic Methods
Lucian MANDACHE [1], Mihai IORDACHE [2], Lucia DUMITRIU [2]
[1] *University of Craiova, Romania*
[2] *Politehnica University of Bucharest, Romania*

Section C

16:30 - 16:45 - Paper ID: 112
Audio Source Localization, using a Network of Embedded Devices
Laurențiu FRANGU, Marius MĂZĂREL, Claudiu CHICULIȚĂ
Dunărea de Jos University of Galați

16:45 - 17:00 - Paper ID: 120
Modeling of Ferrite Common Mode Chokes for EMI Suppression in LTCC Technology
Mirjana DAMNJANOVIĆ, Ljiljana ŽIVANOV, Miloš ŽIVANOV
University of Novi Sad, Serbia

Friday - May 28, 2010

Remus Răduleț Lecture Theatre, Building D

Section C
Electronics and Computer Aided Engineering

Session Co-Chairs

Milos ZIVANOV
University of Novi Sad, Serbia
Eugen COCA
Stefan cel Mare University of Suceava, Romania
Mihai RATA
Stefan cel Mare University of Suceava, Romania

11:00 - 13:30   Section C - Day 2 - Session 1

11:00 -11:15 - Paper ID: 26
Electrical and Switching Parameters of Amorphous Chalcogenide Glassy Semiconductors $Cu_5(AsSe_{1.4}I_{0.2})_{95}$
Miloš Slankamenac, Svetlana R. Lukić, Miloš Živanov
Universitz of Novi Sad, Serbia

11:15 - 11:30 - Paper ID: 34
HDL Implementation from Petri Nets Description
Viorica SUDACEVSCHI, Victor ABABII, Emilian GUTULEAC, Valentin NEGURA
TechnicalUnviersitz of Moldavia, Republic of Moldavia

11:30 - 11:45 - Paper ID: 111
Analysis of Beamforming in Phased Antenna Arrays
Octavian MANU, Mihai DIMIAN, Adrian GRAUR
Stefan cel Mare University of Suceava, Romania

11:45 - 12:00 - Paper ID: 44
Induction motor control with predicted maximum electromagnetic torque and speed
Nicoleta Roxana BUZATU, Dimitrie ALEXA, Georgian Alexandru LAZAR, Dan BUTNICU, Oana Loredana BUZATU
Gh. Asachi Technical University of Iasi, Romania

Section C

12:00 - 12:15 - Paper ID: 59
*Temperature influence on conversion efficiency in the case of
photovoltaic cells*
Corina MARTINEAC [1], Mihai HOPÎRTEAN [2], Gilbert DE MEY,
Vasile ȚOPA [1], Silviu ȘTEFĂNESCU [1]
[1] *Technical Univeristz of Cluj-Napoca, Romania*
[2] *Utrecht University, The Netherlands*
[3] *Gent University, Belgium*

12:15 - 12:30 - Paper ID: 70
GPRS controlled system for monitoring and control of well sites
Vladimir MILOSAVLJEVIC, Milos ZIVANOV, Viktor DOGAN
University of Novi Sad, Serbia

12:30 - 12:45 - Paper ID: 71
Cordless seismic data acquisition system
Miodrag BRKIC, Predrag TEODOROVIC, Milan LUKIC, Milos
ZIVANOV
University of Novi Sad, Serbia

12:45 - 13:00 - Paper ID: 72
Borehole Orientation Sensor - Hardware Realization
Viktor DOGAN, Milos ZIVANOV, Miodrag BRKIC
University of Novi Sad, Serbia

13:00 - 13:15 - Paper ID: 74
*Indoor Inter-Robot Distance Measurement in Collaborative
Systems*
Mihai V. MICEA [1], Andrei STANCOVICI [1], Dan CHICIUDEAN [1],
Constantin FILOTE [2]
[1] *Politehnica University of Timişoara, Romania*
[2] *Stefan cel Mare University of Suceava, Romania*

13:15 - 13:30 - Paper ID: 76
*On Resonance Charts of Piezoelectric Ceramics of Perovskite-
Type, in Microwave Range*
Daniela IONESCU, Iulia Brînduşa CIOBANU
Gh. Asachi Technical University of Iasi, Romania

Section C

13:30 - 15:00   Lunch

15:00 - 16:15   Section C - Day 2 - Session 2

15:00 - 15:15 - Paper ID: 80
Finite State Machine Design and VHDL Coding Techniques
Iuliana CHIUCHISAN, Alin Dan POTORAC, Adrian GRAUR
Stefan cel Mare University of Suceava, Romania

15:15 - 15:30 - Paper ID: 91
Synchronous Overmodulation Control of Cascaded Inverters for Photovoltaic Application
Valentin OLESCHUK, Roman PRUDEAK, Alexandr SIZOV
Power Engineering Institute of the Academy of Sciences, Republic of Moldova

15:30 - 15:45 - Paper ID: 97
Hysteresis Modelling of Soft Magnetic Materials using LabVIEW Programs
Septimiu MOTOASCA, Gheorghe SCUTARU
Transylvania University of Braşov, Romania

15:45 - 16:00 - Paper ID: 27
Analysis of coupled oscillators through a series RLC network
Iulia DUMITRESCU, Mihai IORDACHE, Mihaela IONITA
Politehnica University of Bucharest, Romania

16:00 -16:15 - Paper ID: 108
Performance Evaluations and Comparative Electromagnetic Compatibility Measurements on Compact Fluorescent Lamps
Georgiana BUTA, Eugen COCA, Adrian GRAUR, Valentin POPA
Stefan cel Mare University of Suceava, Romania

Thursday - May 27, 2010

Dragomir Hurmuzescu Lecture Theatre, Building D

Section D
Software Engineering and Information Technologies

Session Co-Chairs

Ioan Alfred LEŢIA
Technical University of Cluj-Napoca, Romania
Ştefan Gheorghe PENTIUC
Stefan cel Mare University of Suceava, Romania
Cristina Elena TURCU
Stefan cel Mare University of Suceava, Romania

12:30 - 13:30   Section D - Day 1 - Session 1

12:30 - 12:45 - Paper ID: 30
A New Hybrid Genetic Algorithm For The District Heating Network Problem
Mitică CRAUS [1], Florin LEON [1], Dragos AROTĂRIŢEI [2]
[1] *Gh. Asachi Technical University of Iaşi, Romania*
[2] *Gr. T. Popa University of Medicine and Pharmacy of Iaşi, Romania*

12:45 - 13:00 - Paper ID: 31
Information Security Policy in the Distributed Computer Systems
Vadym MUKHIN, Artem VOLOKYTA
National Technical University of Ukraine, Ukraine

13:00 - 13:15 - Paper ID: 36
Analysis and Determination of Risk Factors Leading to Preterm Birth Using Data Mining Techniques in R
Adriana-Georgiana MALEA, Ştefan HOLBAN, Nicolae MELIŢĂ
Politehinca University of Timişoara, Romania

13:15 -13:30 - Paper ID: 43
Embarking on the Road of Intrusion Detection with Erlang
Ioan Alfred LETIA, Dan Alexandru MARIAN
Technical University of Cluj-Napoca, Romania

13:30 - 15:00   Lunch

15:00 - 17:00   Section D - Day 1 - Session 2

15:00 -15:15 - Paper ID: 49
Argumentative Support for Structured HACCP Plans
Ioan Alfred LETIA, Adrian GROZA
Technical University of Cluj-Napoca, Romania

15:15 - 15:30 - Paper ID: 50
Applied Realization of Neural Network and Neurolike Parallel-Hierarchical System Based on GPGPU
Andriy YAROVYY
Vinnytsia National Technical University, Ukraine

15:30 - 15:45 - Paper ID: 52
An Ontological Approach to Legal Literature for Improving Legal Knowledge Dissemination
Ioan Alfred LETIA [1], Sorina CORNOIU [2]
[1] *Technical University of Cluj-Napoca, Romania*
[2] *Legislative Council, Bucharest, Romania*

15:45 - 16:00 - Paper ID: 53
Architectural Views for Designing Relationships in Distributed Systems
Anca Daniela IONITA [1], Jacky ESTUBLIER [2]
[1] *Technical University of Cluj-Napoca, Romania*
[2] *LIG-IMAG, Grenoble, France*

16:00 - 16:15 - Paper ID: 54
Value Based Argumentation using Formal Concepts
Ioan Alfred LETIA, Anca GORON
Technical University of Cluj-Napoca, Romania

16:15 - 16:30 - Paper ID: 55
Ontology based modeling of cultural heritage systems
Dorin-Mircea POPOVICI[1,2], Crenguta-Madalina BOGDAN [1],
Ronan QUERREC [2]
[1] *Ovidius University of Constanta, Romania*
[2] *Ecole Nationale d'Ingénieurs de Brest, France*

16:30 - 16:45 - Paper ID: 56
Some aspects of data integration in data mining systems
Mirela DANUBIANU, Emanuela – Alina BOLOHAN, Radu
TIGANESCUL- AMARITII
Stefan cel Mare University of Suceava, Romania

16:45 - 17:00 - Paper ID: 61
*Formation of Microrelief on the Base of Multilevel Elevations
Maps*
Sergei I.VYATKIN [1], Oksana V. ROMANIUK [2]
[1] *Institute of Automation and Electrometry, Novosibirs,
Russia*
[2] *Vinnitsa National Technical University, Vinnitsa, Ukraine*

Friday - May 28, 2010

Dragomir Hurmuzescu Lecture Theatre, Building D

Section D
Software Engineering and Information Technologies

Session Co-Chairs

Ioan Alfred LEŢIA
Technical University of Cluj-Napoca, Romania
Ştefan Gheorghe PENTIUC
Stefan cel Mare University of Suceava, Romania
Cristina Elena TURCU
Stefan cel Mare University of Suceava, Romania

11:00 - 13:30   Section D - Day 2 - Session 1

11:00 - 11:15 - Paper ID: 65
The BRDF Models Based on the Cosine-quadratic Function
Alexander ROMAHYUK, Yuri LYASHENKO
Vinnitsa National Technical University, Vinnitsa, Ukraine

11:15 -11:30 - Paper ID: 83
VRDN: A Software Environment for Visual Simulation of Rewriting Generalized Timed Differential Petri Nets Models
Emilian GUŢULEAC, Iurie ŢURCANU, Ion BALMUŞ, Victor CHEIBAŞ, Alexei CORDUNENU
Technical University of Moldova, Republic of Moldova

11:30 - 11:45- Paper ID: 85
Information Technology Approach to Individual "Knapsack Problem" (Nanologistics)
Sergey RYVKIN [1], Denis KRASNOVSKI [2]
[1] *Trapeznikov Institute of Control Sciences of Russian Academy of Sciences, Russia*
[2] *Bank for Development and Foreign Economic Affairs, Moscow, Russia*

11:45 - 12:00 - Paper ID: 87
Cryptoresistant Generator of Binary Key Sequences on the Basis of Cellular Automata
Sergey OSTAPOV, Vladimir ZHIKHAREVICH, Lidiya VAL
Chernivtsi Yuri Fed'kovich National University, Chernivtsi, Ukraine

12:00 - 12:15 - Paper ID: 107
A distributed RFID based system for patients' identification and monitoring
Tudor CERLINCA, Remus PRODAN, Cornel TURCU, Marius CERLINCA
Stefan cel Mare University of Suceava, Romania

12:15 - 12:30 - Paper ID: 89
ICT serves business training: Implementing Life Long Learning
Timothy HALL [1], Ileana HAMBURG [2], Emma O'BRIEN [1], Sinead MELLETT [1]
[1] *University of Limerick, Limerick Ireland*
[2] *University of Applied Sciences, Gelsenkirchen, Germany*

12:30 - 12:45 - Paper ID: 94
New trend on OPC Middleware
Simona-Anda GHERASIM, Adrian Mihai GĂITAN, Vasile Gheorghiță GĂITAN, Valentin POPA
Stefan cel Mare University of Suceava, Romania

12:45 - 13:00 - Paper ID: 96
A Bee-inspired Approach for Selecting the Optimal Service Composition Solution
Cristina Bianca POP, Viorica Rozina CHIFU, Ioan SALOMIE, Mihaela DINSOREANU, Mihaly FODOR, Irina CONDOR
Technical University of Cluj-Napoca, Romania

13:00 - 13:15 - Paper ID: 98
Modeling the Probability of Deadlocks in a Multithreading Process
Doina LOGOFĂTU, Felix DIETRICH, Evgeni PAVLIDIS, Dennis WILFERT
University of Applied Sciences Munich, Germany

13:15 - 13:30 - Paper ID: 101
*System for Real Time Detection of Hands and Pedestrians
Movements*
Gina CRĂCIUN, Ionela RUSU, Ştefan-Gheorghe PENTIUC,
Radu Daniel VATAVU
Stefan cel Mare University of Suceava, Romania

13:30 - 15:00   Lunch

15:00 - 15:30   Section D - Day 2 - Session 2

15:00 - 15:15 - Paper ID: 105
*The Application Of Genetic Algorithm For Training Without a
Teacher*
Valeriy FRATAVCHAN
*Yurii Fedkovich Chernivtsi National University, Chernivtsi,
Ukraine*

15:15 - 15:30 - Paper ID: 106
HL7 Messaging Engine with Customizable Translation System
Marius CERLINCĂ, Cristina TURCU, Tudor CERLINCĂ, Remus
PRODAN
Stefan cel Mare University of Suceava, Romania

Notes