



- Location
- Program
- Organisation
- Papers
- Participants
- Administrators
- Reviewers
- Contact info



"Politehnica" University of Timișoara
Faculty of Automation and Computers
ROMANIA

CONFERENCE PROGRAM

CONTI'2006

The 7th INTERNATIONAL CONFERENCE ON TECHNICAL INFORMATICS

8-9 June 2006

TIMIȘOARA, ROMANIA

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GENERAL PROGRAM

<u>Wednesday, June 7</u>	
18:00-20:00	Accommodation Information <i>tel. 0722-275637</i>
<u>Thursday, June 8</u>	
8:00-9:00	Registration
9:00-9:25	Opening Session
9:30-10:15	Plenary Session
10:15-10:30	Coffee Break
10:30-12:00	Session 1: SA1-1, SA1-2, SC1-1, SC1-2
12:00-14:00	Lunch Time
14:00-15:30	Session 2: SA2-1, SA2-2, SC2-1, SC2-2
15:30-15:45	Coffee Break
15:45-17:15	Session 3: SA3-1, SA3-2, SC3-1, SC3-2
19:00-22:00	Cocktail ♦ <i>Fast-Food Restaurant</i>
<u>Friday, June 9</u>	
8:00-9:00	Registration
9:00-10:15	Session 4: SA4-1, SA4-2, SC4-1, SC4-2, SC4-3
10:15-10:30	Coffee Break
10:30-12:30	Session 5: SA5-1, SA5-2, SC5-1, SC5-2, SC5-3
12.30-12.45	Coffee Break
12:45-13:45	Invited Paper
13.45-14.00	Closing Session

SESSION TIME TABLE

ROOM	A1 A110	A2 A115	C1 A109	C2 A117	C3 A116
TIME					
Thursday June 8					
9:30-10:15	PLENARY SESSION, room A101 (p.1)				
10:30-12:00	SA1-1 (p.2)	SA1-2 (p.2)	SC1-1 (p.8)	SC1-2 (p.8)	-
12:00-14:00	LUNCH TIME				

14:00-15:30	SA2-1 (p.3)	SA2-2 (p.3)	SC2-1 (p.9)	SC2-2 (p.9)	-
15:45-17:15	SA3-1 (p.4)	SA3-2 (p.4)	SC3-1 (p.10)	SC3-2 (p.10)	-
Friday June 9					
9:00-10:15	SA4-1 (p.5)	SA4-2 (p.5)	SC4-1 (p.11)	SC4-2 (p.11)	SC4-3 (p.12)
10:30-12:30	SA5-1 (p.6)	SA5-2 (p.7)	SC5-1 (p.12)	SC5-2 (p.13)	SC5-3 (p.13)
12:45-13:45	INVITED PAPER, room A109 (p.1)				

Sessions coding (e.g., SA1-2, SC5-3)

S ♦ Session

A/C ♦ Automation and Applied Informatics / Computer and Software Engineering

1/2/3/4/5 ♦ Session number 1 to 5

-

1/2/3 ♦ Parallel Session 1 to 3

Plenary Session

Room A101

Thursday, June 8, 9.30-10.15

FUTURE OF UNIVERSITIES

Prof. Dr. Eugene ROVENTA

Glendon College, York University, Canada

Invited Paper

Room A109

Friday, June 9, 12.45-13.45

INTELLIGENT ROBOTIC SENSOR AGENTS

Prof. Dr. Eng. Emil M. PETRIU

University of Ottawa, Canada

AUTOMATION AND APPLIED INFORMATICS

Session SAI-1: Control Engineering: Theory and Applications ♦ I

Chairs: Matei Vinatoru, Toma-Leonida Dragomir Thursday, 10.30-12.00, room A1

- 1. Implementation of Digital Systems for Monitoring and Control in Hydro-Power Plants** (proc. vol. 1, pp. 7-12)
Matei Vinatoru, Eugen Iancu, University of Craiova, Romania
- 2. Composition Decoupling: Propylene-Propane Distillation Column Case** (proc. vol. 1, pp. 13-18)
Sanda Frâncu, Marian Popescu, Alina Băieșu, Vasile Cîrtoaje, Petroleum-Gas University of Ploiești, Romania
- 3. Increasing Availability for Vaporizers Temperature Stabilization of a Geothermal Power Plant** (proc. vol. 1, pp. 25-30)
Gianina Gabor, University of Oradea, Romania
Adrian Korodi, Toma-Leonida Dragomir, ♦Politehnica♦ University of Timisoara, Romania
- 4. On a Two-Degree-of-Freedom Iterative Feedback Tuning Approach** (proc. vol. 1, pp. 19-24)
Radu-Emil Precup, Stefan Preitl, Corina Ardelean, ♦Politehnica♦ University of Timisoara, Romania
- 5. Simulink Model for Switched Reluctance Motor Drives** (proc. vol. 1, pp. 201-208)
Ioan Silea, Dorina Petrica, ♦Politehnica♦ University of Timisoara, Romania

Session SAI-2: Linear and Nonlinear Systems. Adaptive Control ♦ I

Chairs: Hubert Roth, Sergiu Caraman Thursday, 10.30-12.00, room A2

- 1. Time Domain Passivity Control For Delayed Teleoperation with Parabolic Power Integration** (proc. vol. 1, pp. 85-90)
Asif Iqbal, Hubert Roth, University of Siegen, Germany
- 2. Sliding Sector Design Based on Tensor Product Model Transformation** (proc. vol. 1, pp. 1-6)
Péter Korondi, Budapest University of Technology and Economics, Hungary
- 3. Smooth Switching Function with Adaptive Gain in Sliding Mode Observer-Controller to Robotic Manipulators Control** (proc. vol. 1, pp. 163-168)
Adrian Filipescu, Andrei Cosor, ♦Dunarea de Jos♦ University of Galati, Romania

4. **Sliding Mode Observer for a Wastewater Treatment Process**
(proc. vol. 1, pp. 67-70)
Marian Barbu, Sergiu Caraman, ♦Dunarea de Jos♦ University of Galati,
Romania

Session SA2-1: Control Engineering: Theory and Applications ♦ II

Chairs: Stefan Preitl, Ioan Silea

Thursday, 14.00-15.30, room A1

1. **Start up Current Limitation Method in Direct Torque Controlled Induction Motor Drives**
(proc. vol. 1, pp. 35-38)
Vojkan Kostic, Nebojsa Mitrovic, Milutin Petronijevic, University of Nis, Serbia and Montenegro
Milan Bebic, University of Belgrade, Serbia and Montenegro
2. **Stator Fault Detection in Induction Machines: Methods and Techniques ♦ Short Review**
(proc. vol. 1, pp. 39-44)
Péter Bikfalvi, University of Miskolc, Hungary
Mária Imecs, Technical University of Cluj-Napoca, Romania
3. **Comparative Study Regarding Classic PI and Fuzzy Control Solutions Applied at Permanent Magnet Synchronous Machine Drives**
(proc. vol. 1, pp. 45-50)
Octavian Prostean, Vasar Cristian, Iosif Szeidert, Ioan Filip, ♦Politehnica♦ University of Timisoara Romania
4. **Extremum Control Systems Applied in Railway Induction Traction Motors**
(proc. vol. 1, pp. 51-54)
Rodica Festila, Eva Dulf, Clement Festila, Technical University of Cluj-Napoca, Romania

Session SA2-2: Linear and Nonlinear Systems. Adaptive Control ♦ II

Chairs: Vladimir Rasvan, Octavian Pastravanu

Thursday, 14.00-15.30, room A2

1. **On Coupled Oscillators**
(proc. vol. 1, pp. 91-94)
Daniela Danciu, Vladimir Rasvan, University of Craiova, Romania
2. **On the Asymptotic Stability of Positive Linear Systems**
(proc. vol. 1, pp. 95-98)
Mihaela-Hanako Matcovschi, Octavian Pastravanu, Technical University "Gh. Asachi" of Iasi, Romania
3. **An Approach about State - Space Observers Design Using Sensitivities**
(proc. vol. 1, pp. 107-110)
Dorina Popescu, Denisa Honaie, ♦Politehnica♦ University of Timisoara, Romania
4. **On the Method for Multiplierless FIR Filter Design**
(proc. vol. 1, pp. 197-200)
Gordana Jovanovic Dolecek, Vlatko Dolecek, Institute INAOE, Puebla, Mexico; University of Sarajevo, Bosnia-Herzegovina

Session SA3-1: Modeling, Identification and Parameter Estimation

Chairs: Constantin Marin, Octavian Prostean

Thursday, 15.45-17.15, room A1

1. **Identification of Systems with Friction Via Distributions**
(proc. vol. 1, pp. 61-66)
Constantin Marin, Anca Petrisor, Virginia Fincă, University of Craiova, Romania
2. **Modeling the Basic Components of Suspended Transport Systems with the Help of Untimed Petri Nets**
(proc. vol. 1, pp. 71-76)
Dan Ungureanu-Anghel, Octavian Prostean, ♦Politehnica♦ University of Timisoara, Romania
3. **Modeling the Basic Components of Suspended Transport Systems Using Sequential Automata**
(proc. vol. 1, pp. 77-80)
Dan Ungureanu-Anghel, Octavian Prostean, ♦Politehnica♦ University of Timisoara, Romania
4. **Liquid Level Control Using Optimization and Identification Software**
(proc. vol. 1, pp. 81-84)
Messaouda Azzouzi, Dumitru Popescu, ♦Politehnica♦ University of Bucharest, Romania

Session SA3-2: Linear and Nonlinear Systems. Adaptive Control ♦ III

Chairs: Dan Popescu, Toma-Leonida Dragomir

Thursday, 15.45-17.15, room A2

1. **On the State Feedback Control with Integral Action for Input Delay Systems**
(proc. vol. 1, pp. 99-102)
Dan Popescu, University of Craiova

2. **Adaptive Multi-Model Control Solution for Nonlinear Processes**
(proc. vol. 1, pp. 103-106)
Ciprian Lupu, Dumitru Popescu, Meda Truta, Bogdan Ciubotaru, Politehnica University of Bucharest, Romania
3. **Learning Techniques for Stable Adaptive Control**
(proc. vol. 1, pp. 111-114)
Nicolae Constantin, Politehnica University of Bucharest, Romania
4. **Robust H2 Controller Design for VSC-HVDC Transmission**
(proc. vol. 1, pp. 31-34)
K. Aleksić, University of Ni, Serbia and Montenegro
M. Durrant, H. Werner, Hamburg University of Technology, Germany
V. Nikolić, University of Ni, Serbia and Montenegro

Session SA4-1: Mechatronics and Robotics

Chairs: Eugen Iancu, Gheorghe-Daniel Andreescu Friday, 9.00-10.15, room A1

1. **Performance Analysis of Point Features for Visual Tracking Applications**
(proc. vol. 1, pp. 169-174)
Adrian Burlacu, Corneliu Lazar, Gh. Asachi Technical University of Iasi, Romania
2. **About the Robot State in Local and Recent Space**
(proc. vol. 1, pp. 175-180)
Anca Petrisor, Sonia Degeratu, Florin Ravigan, Daniela Coman, University of Craiova, Romania
Dumitru Cazacu, University of Pitești, Romania
3. **Optimal Synthesis of Commands for Control Systems with Fault Actuators**
(proc. vol. 1, pp. 181-184)
Eugen Iancu, University of Craiova, Romania
4. **Modeling the Kinematical Response of Spatial Chains from the Industrial Robots Structure**
(proc. vol. 1, pp. 185-190)
Mihaela Cecilia Florescu, Nicolae Dumitru, University of Craiova, Romania

Session SA4-2: Intelligent Control

Chairs: Dimitar Lakov, Radu-Emil Precup Friday, 9.00-10.15, room A2

1. **Intelligent Tuning and Control of Micro Hydro Power Plant**
(proc. vol. 1, pp. 115-120)
Dimitar Lakov, Stanislav Vassilev, Bulgarian Academy of Sciences, Bulgaria
2. **Color Image Segmentation as Intuitive Support in Teaching Neural-Network-Based Classification**
(proc. vol. 1, pp. 121-126)
Octavian Pastravanu, Mihaela-Hanako Matcovschi, Technical University "Gh. Asachi" of Iasi, Romania
3. **Confirmation of a Probability-based Accuracy Prediction Method for Line Extraction**
(proc. vol. 1, pp. 191-196)
Tibor Kovács, Béla Takarics, Budapest University of Technology and Economics, Hungary
4. **Recognizing Unusual Behavior in Distributed Environment**
(proc. vol. 1, pp. 55-60)
Andor Gaudia, Péter Korondi, Budapest University of Technology and Economics, Hungary
Stefan Preitl, Radu-Emil Precup, Politehnica University of Timisoara, Romania

Session SA5-1: Biomedical Informatics

Chairs: Zoltán Benyó, Lăcrămioara Stoicu-Tivadar Friday, 10.30-12.30, room A1

1. **Adaptive ECG Signal Analysis for Enhanced State Recognition and Diagnosis**
(proc. vol. 1, pp. 209-214)
Sándor M. Szilágyi, Sapientia Hungarian Science University of Transylvania, Târgu Mureș, Romania
László Szilágyi, Budapest University of Technology and Economics, Hungary
David Iclănzan, University of Babeș-Bolyai, Cluj Napoca, Romania
Zoltán Benyó, Budapest University of Technology and Economics, Hungary
2. **Advanced Heuristic Methods for ECG Parameter Estimation**
(proc. vol. 1, pp. 215-220)
David Iclănzan, University of Babeș-Bolyai, Cluj Napoca, Romania
Sándor M. Szilágyi, Sapientia Hungarian Science University of Transylvania, Târgu Mureș, Romania
László Szilágyi, Zoltán Benyó, Budapest University of Technology and Economics, Hungary

3. **Quick ECG Signal Processing Methods for On-Line Holter Monitoring Systems**
(proc. vol. 1, pp. 221-226)
László Szilágyi, Budapest University of Technology and Economics, Hungary
Sándor M. Szilágyi, Sapientia - Hungarian Science University of Transylvania, Târgu Mureș, Romania
David Iclânzan, University of Babeș-Bolyai, Cluj Napoca, Romania
Zoltán Benyó, Budapest University of Technology and Economics, Hungary
4. **Markov Chains for a New Data Mining Technique Applied on Biological Sequences**
(proc. vol. 1, pp. 227-230)
Alina Bogan-Marta, University of Oradea, Romania
Nicolae Robu, Politehnica University of Timisoara, Romania
5. **Statistical Prediction Method for Viral Hepatitis C Taking Based on TGP Biological Parameter**
(proc. vol. 1, pp. 231-234)
Mihail Dragomirescu, Andreea Drăgulescu, University of Medicine and Pharmacy, Timișoara, Romania
Adriana Albu, Politehnica University of Timisoara, Romania
6. **Decision Support System for Liver's Morphological Changes Detection Using Images Processing**
(proc. vol. 1, pp. 235-238)
Albu Adriana, Doina Drăgulescu, Loredana Ungureanu, Politehnica University of Timisoara, Romania
7. **Neural Network for Arterial Baroreceptor Prosthesis**
(proc. vol. 1, pp. 239-242)
Ionela Iancu, University of Medicine and Pharmacy of Craiova, Romania
Eugen Iancu, University of Craiova, Romania

Session SA5-2: Optimization. Numerical Methods. Theory & Applications

Chairs: Keith J. Burnham, Radu-Emil Precup

Friday, 10.30-12.30, room A2

1. **MIMO Errors-in-Variables Extended Kalman Filter**
(proc. vol. 1, pp. 127-132)
B. Vinsonneau, D. P. Goodall, K. J. Burnham, Coventry University, UK
2. **Modeling System Nonlinearity: A Study of Time Varying and Multiple Time Invariant Approaches**
(proc. vol. 1, pp. 133-138)
N. Meyer, J. G. Linden, B. Vinsonneau, K. J. Burnham, Coventry University, UK
3. **Linear and Linear Integer Multicriteria Optimization Software System**
(proc. vol. 1, pp. 139-144)
Mariana Vassileva, Dimitar Lakov, Vassil Vassilev, Bulgarian Academy of Sciences, Bulgaria
4. **Communication Strategies in Distributed Evolutionary Algorithms for Multi-objective Optimization**
(proc. vol. 1, pp. 145-150)
Daniela Zaharie, Dana Petcu, West University of Timișoara, Romania
5. **A Comparison of Subtree Matching Algorithms**
(proc. vol. 1, pp. 151-156)
Péter Cserkúti, Tihamér Levendovszky, Hassan Charaf, Budapest University of Technology and Economics, Hungary
6. **Optimization of Integrated Octagonal Inductors Using Response Surface Method**
(proc. vol. 1, pp. 157-162)
Goran Stojanovic, Goran Radosavljevic, Andrea Maric, Ljiljana Ivanov, University of Novi Sad, Serbia and Montenegro

COMPUTER AND SOFTWARE ENGINEERING

Session SCI-1: Software Development. Tools and Applications - I

Chairs: Hassan Charaf, Vladimir Cretu

Thursday, 10.30-12.00, room C1

1. **A Proposal to Support the Extreme Programming Development Methodology from the Quality Assurance Point of View**
(proc. vol. 2, pp. 37-42)
Călin Jebelean, Vladimir Cretu, Politehnica University of Timisoara, Romania
2. **Reverse Inheritance Features Applied in Coding Java Mobile Applications**
(proc. vol. 2, pp. 43-46)
Smaranda-Claudia Chirila, Monica Ruzsilla, Ciprian-Bogdan Chirila, Politehnica University of Timisoara, Romania
3. **Automatized Concrete Syntax Definition for Domain Specific Languages**
(proc. vol. 2, pp. 47-52)
Gergely Mezei, Tihamér Levendovszky, Hassan Charaf, Budapest University of Technology and Economics, Hungary
4. **A Survey on Automation Test Approaches** (proc. vol. 2, pp. 53-56)
András Virág, Tihamér Levendovszky, Budapest University of Technology and Economics, Hungary

5. **The Use of Metamodeling Technique in Mobile User Interface Development**
(proc. vol. 2, pp. 57-60)
Tamás Vajk, Hassan Charaf, Budapest University of Technology and Economics,
Hungary

Session SC1-2: Computer Networks

Chairs: Victor Patriciu, Ioan Jurca

Thursday, 10.30-12.00, room C2

1. **Developing New Hybrid Wireless Systems**
(proc. vol. 2, pp. 27-32)
Valeriu Manuel Ionescu, Florin Valentin Smaranda, Emil Sofron, University of Pitesti, Romania
2. **The Delayed Message Authentication Protocol with Chains Constructed on the Discrete Power Function** (proc. vol. 2, pp. 33-36)
Bogdan Groza, Politehnica University of Timisoara, Romania
3. **Requirements for Implementing a Trusted Electronic Mail Service**
(proc. vol. 2, pp. 19-22)
Victor Patriciu, Mihai Togan, Military Technical Academy, Bucharest, Romania
Constantin Burdun, UTI Systems Inc., Bucharest, Romania
4. **Semi-Fragile Digital Signature for JPEG2000 Images** (proc. vol. 2, pp. 23-26)
Neculai-Daniel Stoleru, Victor Valeriu Patriciu, Military Technical Academy, Bucharest, Romania

Session SC2-1: Software Development. Tools and Applications II

Chairs: Philippe Lahire, Vladimir Cretu

Thursday, 14.00-15.30, room C1

1. **Performance Comparison of Web Services in Different Versions of Microsoft .NET (.NET 1.1, .NET 2.0) Platform**
(proc. vol. 2, pp. 61-64)
Márk Kaszó, Budapest University of Technology and Economics, Hungary
2. **Analyzing and Modelling the Effect of Application Server Settings on Web Application Performance**
(proc. vol. 2, pp. 65-70)
Gábor Imre, Hassan Charaf, Budapest University of Technology and Economics, Hungary
3. **SmartFactory A Prototype for Model Oriented Software Engineering Based on Eclipse Platform**
(proc. vol. 2, pp. 71-76)
E. Tundrea, Politehnica University of Timisoara, Romania
P. Lahire, Sophia-Antipolis, France
D. Pescaru, C. B. Chirilă, Politehnica University of Timisoara, Romania
4. **Translation-Composition Framework for Multi-language Ontologies**
(proc. vol. 2, pp. 77-82)
Andrei Riscuta, Politehnica University of Timisoara, Romania
5. **Automatic Matching of Software Components by Fuzzy Inference**
(proc. vol. 2, pp. 83-88)
Ioana Sora, Doru Todinca, Politehnica University of Timisoara, Romania

Session SC2-2: Distributed and Real-Time Systems

Chairs: Dana Petcu, Ioan Jurca

Thursday, 14.00-15.30, room C2

1. **On a Framework for Modeling Collaborative Distributed Systems**
(proc. vol. 2, pp. 137-142)
Cristina Mindruță, OVIDIUS University of Constanta, Constanta
2. **Building a Portal for Grid-based Services**
(proc. vol. 2, pp. 143-148)
Dana Petcu, Western University of Timisoara, and Institute e-Austria Timisoara, Romania
3. **Timed Input/Output Determinacy for Tasks with Precedence Constraints**
(proc. vol. 2, pp. 149-154)
Daniel Iercan, Politehnica University of Timisoara, Romania
Arkadeb Ghosal, University of California, USA
4. **Highly Available Client Service Framework on a Distributed Environment**
(proc. vol. 2, pp. 155-160)
Anca Pop-Bidian, Gheorghe Sebestyen, Technical University of Cluj-Napoca, Romania

Session SC3-1: Embedded Systems. Computer Architectures, Reliability and Testing

Chairs: Mircea Vladutiu, Voicu Groza

Thursday, 15.45-17.15, room C1

1. **System-on-chip with Run-time Reconfigurable Coprocessor**
(proc. vol. 2, pp. 89-94)
Voicu Groza, Rami Abielmona, Mohammed Elbadri, Mohammad El-Kadri, Nizar Sakr, University of Ottawa, Canada
2. **How to Reduce a Response Time of the PLCS**
(proc. vol. 2, pp. 95-100)
Mirosław Chmiel, Edward Hryniewicz, Silesian University of Technology, Poland
3. **A Minimal System Structure for Human Trait-Detection**
(proc. vol. 2, pp. 101-106)
Nicolae Mircea Dehelean, Liana-Maria Dehelean, Daniela Stanescu, Politehnica University of Timisoara, Romania

4. **Fault Selection Pseudo-Genetic Algorithm for Fault Coverage Interval Estimation** (proc. vol. 2, pp. 127-130)
Marius Marcu, Mircea Vladutiu, Sebastian Fuicu, Politehnica University of Timisoara, Romania
5. **Two-Values Fault Coverage Definition for Realistic Resistive Bridging Faults Simulation** (proc. vol. 2, pp. 131-136)
Marius Marcu, Mircea Vladutiu, Politehnica University of Timisoara, Romania

Session SC3-2: Computer Networks, Distributed and Real-Time Systems

Chairs: Dan Ionescu, Vladimir Cretu

Thursday, 15.45-17.15, room C2

1. **Parallel Branch and Bound Experiment Using Java Based Message Passing and Shared Object Space Solutions** (proc. vol. 2, pp. 161-166)
Dacian Tudor, Vladimir Cretu, Horia Ciocarlie, Politehnica University of Timisoara, Romania
2. **Analyzing Real-Time Systems with Precedence Constraints** (proc. vol. 2, pp. 167-172)
Doina Zmaranda, Gianina Gabor, Claudia Rusu, University of Oradea, Romania
3. **On the Accuracy of Packet-Based Models for DiffServ Networks** (proc. vol. 2, pp. 1-6)
Stejarel Veres, Dan Ionescu, University of Ottawa, Canada
4. **Using a Reactive Estimator for Robust Control of Packet Loss Probability for MPLS VPN Services** (proc. vol. 2, pp. 7-12)
Dongli Zhang, Dan Ionescu, University of Ottawa, Canada
5. **Hardware Architectures for Communication Protocols with Reference to MPLS** (proc. vol. 2, pp. 13-18)
Raymond Peterkin, Dan Ionescu, University of Ottawa, Canada

Session SC4-1: Artificial Intelligence I

Chairs: Marius Crisan, Stefan Holban

Friday, 9.00-10.15, room C1

1. **Experiments with a Distributed Simulator for Neural Networks Training** (proc. vol. 2, pp. 173-178)
Sorin Babii, Politehnica University of Timisoara, Romania
2. **Upon the Gödelian Argument** (proc. vol. 2, pp. 179-182)
M. Crisan, Politehnica University of Timisoara, Romania
3. **Supervised Term Clustering and Confidence Measurement in Document Clustering** (proc. vol. 2, pp. 183-188)
Kristóf Csorba, István Vajk, Budapest University of Technology and Economics, Hungary
4. **Tentative Prediction for the QSAR Problem using Association Rule Mining** (proc. vol. 2, pp. 189-194)
Luminita Dumitriu, Cristina Segal, Marian-Viorel Craciun, Adina Cocu, Lucian P. Georgescu, University "Dunarea de Jos" of Galati, Romania
5. **Framework for Automatic Composition of Semantic Web Services** (proc. vol. 2, pp. 195-200)
Balázs Tóthfalussy, István Vajk, Budapest University of Technology and Economics, Hungary

Session SC4-2: Embedded Systems

Chairs: Mircea Stratulat, Mircea Popa

Friday, 9.00-10.15, room C2

1. **Smart Mobile Distributed Solution for Traffic Flow Optimization** (proc. vol. 2, pp. 107-112)
Marius Marcu, Sebastian Fuicu, Politehnica University of Timisoara, Romania
Victor Tomescu, Mihai Zilahi, Siemens VDO Automotive, Romania
Attila Szasz, Covasa Szilard, Cezar Ilea, Politehnica University of Timisoara, Romania
2. **Internet and LAN Connected Embedded Virtual Instrumentation** (proc. vol. 2, pp. 113-116)
Raul Ionel, Mircea Popa, Politehnica University of Timisoara, Romania
3. **MP3 Player with Hard Disk and FM Stereo Radio Transmitter** (proc. vol. 2, pp. 117-122)
Andrei Novak, S.C. Nadcomp S.R.L., Oradea, Romania
Mircea Stratulat, Politehnica University of Timisoara, Romania
4. **A Hardware Realisation of a System for Monitoring of Well Logging Parameters** (proc. vol. 2, pp. 123-126)
Miodrag Brkic, Daniel Mihajlovic, Ivan Mezei, Milo Ivanov, Milo Slankamenac, University of Novi Sad, Serbia & Montenegro

Session SC4-3: Databases

Chairs: Dan-Dumitru Burdescu, Ionel Jian

Friday, 9.00-10.15, room C3

1. **Measuring the Inner Similarities in the Expanding Wikipedia Universe** (proc. vol. 2, pp. 239-244)
Istvan Soos, Tihamer Levendovszky, Hassan Charaf, Budapest University of Technology and Economics, Hungary
2. **Physical Database Design Based on Cleanroom Model** (proc. vol. 2, pp. 245-250)
Adi-Cristina Mitea, Lucian Blaga University of Sibiu, Romania
Ionel Jian, Politehnica University of Timisoara, Romania

3. **Multi-Level Frequent Pattern Mining from Databases Using AFOPT Data Structure** (proc. vol. 2, pp. 251-256)
Mirela Pater, University of Oradea, Romania
Ionel Jian, Politehnica University of Timisoara, Romania
4. **The Region-Based Query Using Ontology** (proc. vol. 2, pp. 257-262)
Anca Ion, Liana Stanescu, Dan-Dumitru Burdescu, University of Craiova, Romania

Session SC5-1: Artificial Intelligence II

Chairs: Eugene Roventa, Stefan Holban Friday, 10.30-12.30, room C1

1. **Automatic Treatment of Knowledge Imperfection: Some Medical Applications** (proc. vol. 2, pp. 207-210)
E. Roventa, York University, Canada
T. Spiricu, "Carol Davila" University of Medicine and Pharmacy, Romania
2. **Some Consideration about Simulation Framework of Neuronal Cells** (proc. vol. 2, pp. 211-214)
Meda Truța, National Intelligence Academy, Romania
Ciprian Lupu, Politehnica University Bucharest, Romania
3. **Message Management in the Case of AWCS Family Techniques** (proc. vol. 2, pp. 215-220)
Ionel Muscalagiu, Cretu Vladimir, Politehnica University of Timisoara, Romania
Popa Horia Emil, The University of the West, Romania
4. **Case-Based Reasoning Approach in Diagnosing Migraine and Tension Type Headache** (proc. vol. 2, pp. 221-226)
Svetlana Simić, Petar Slankamenac, Clinical Centre Novi Sad, Yugoslavia
Dragan Simić, Novi Sad Fair, Yugoslavia
5. **Querying Ontologies for Automatic Reconfiguration of Production and Assembly Systems** (proc. vol. 2, pp. 227-232)
George G. Savii, Politehnica University of Timisoara, Romania
6. **Knowledge Representation for Automatic Reconfiguration of Production and Assembly Systems** (proc. vol. 2, pp. 233-238)
George G. Savii, Politehnica University of Timisoara, Romania
7. **Survey on Web Ontology Editing Tools** (proc. vol. 2, pp. 201-206)
Sabin Corneliu Buraga, Liliana Cojocaru, Ovidiu Cătălin Nichifor, A.I.Cuza University of Iasi, Romania

Session SC5-2: Education. Lifelong-Learning and E-Learning

Chairs: Antoanela Naaji, Carmen Holotescu Friday, 10.30-12.30, room C2

1. **New Opportunities Offered by eLearning in Social and Economic Life. eLearning Programs Developed at Vasile Goldiș Western University** (proc. vol. 2, pp. 263-266)
Antoanela Naaji, Western University of Arad, Romania
2. **Web Platform for Continuous Learning** (proc. vol. 2, pp. 267-270)
Marian-Cristian Mihăescu, Dumitru-Dan Burdescu, University of Craiova, Romania
3. **Self-testing Systems for E-learning** (proc. vol. 2, pp. 271-274)
Alin Vasilică Berechet, Corina Săvulescu, Ilie Popa, University of Pitești, Romania
4. **Analytics of eLearning Systems** (proc. vol. 2, pp. 275-280)
Antoanela Daniela Stroe, Politehnica University Bucharest, Romania
5. **E-Learning Open Source System Based on Claroline for Computer Science Education** (proc. vol. 2, pp. 281-286)
Marieta Gâta, University of Baia Mare, Romania
Gavril Todorean, Technical University of Cluj Napoca, Romania
6. **Enhanced Learning for the Multi-Attribute Decision Making's Domain** (proc. vol. 2, pp. 287-292)
Cornel Resteanu, ICI, Romania,
Mihaela Resteanu, Academy of Economic Studies, Romania
7. **Towards E-Learning Curriculum Analyzing Necessary Competences** (proc. vol. 2, pp. 293-296)
Danijela Milosevic, Radojka Krneta, Mirjana Brkovic, University of Kragujevac, Serbia & Montenegro

Last minute papers

8. **A Methodology for Designing and Developing Open Blended Courses for Vulnerable Adult Groups**
Carmen Holotescu, Politehnica University of Timisoara, Romania
Christine Nena Karagianni, Research Academic Computer Technology Institute, Greece
Spyros Papadakis, Hellenic Open University, Faculty of Sciences & Technology, Greece
9. **Approaches to Life Long Learning by Using Online Tools**
Radu Vasii, Nicolae Robu, Diana Andone, Marian Bucos, Mihai Onita, Politehnica University of Timisoara, Romania
10. **An Approach in Analyzing e-Learning Facilitators Roles and Competencies**
Maria Fernanda Spina, Roberta Moscarelli, Elisa Manzi, University of Napoli "Federico II", Italy
Carmen Holotescu, Politehnica University of Timisoara, Romania

Session SC5-3: Special Session on Wireless Networks

Chairs: Gabriel-Miro Muntean, Dan Pescaru Friday, 10.30-12.30, room C3

1. **Security Protocols For Distributed Wireless Sensor Networks** (proc. vol. 2, p.297-300)
Ovidiu Banius, Daniel Ioan Curiaç, Politehnica University of Timisoara, Romania
Alex Doboli, State University of New York, USA
2. **User Budget-Centric e-Learning in Multiple Wireless Network Environment**
(proc. vol. 2, pp. 301-304)
Cristina Hava Muntean, Gabriel-Miro Muntean, Dublin City University, Ireland
3. **Quality-aware Multimedia Streaming over IEEE 802.11b Wireless Home Area Network** (proc. vol. 2, pp. 305-310)
Gabriel-Miro Muntean, Dublin City University, Ireland
Nikki Cranley, Dublin Institute of Technology, Ireland
4. **Event Reporting and System Diagnosis for Autonomous Monitoring and Control Equipments** (proc. vol. 2, pp. 311-316)
Dan Chiciudean, Bogdan Ciubotaru-Petrescu, Daniela Stanescu, Razvan Cioarga, Politehnica University of Timisoara, Romania
5. **Experimental Measurements into TCP Congestion Mechanism over a Wireless 802.11 Network** (proc. vol. 2, pp. 317-322)
Sebastian Fuicu, Alin Anton, Marius Marcu, "Politehnica" University of Timisoara, Romania