

"Politehnica" University of Bucharest, Romania, June 7 - 9, 2001

PROGRAMME AT A GLANCE

Thursday, 7 June 2001, room AN010

8:00	Registration
9:00	Opening Session
9:30	Plenary Session P1
10:30	<i>Coffee Break</i>
11:00	Special Session S1: The role of wavelets in modern multimedia standards <i>Organized in collaboration with the Flemish FWO Image Processing Systems (IPS) Research Community and the AWI Bilateral Technological & Scientific Collaboration Programme.</i>
12:30	<i>Lunch</i>
14:00	Plenary Session P2 <i>Organized in collaboration with the University of Zagreb, HR</i>
15:00	Session S2
16:00	<i>Coffee Break</i>
16:30	Session S3
17:30	Session S4
18:30	
19:30	Conference Dinner

Friday, 8 June 2001, rooms AN010 & AN034

	8:00	Tutorial T1: Standard and Subjective Image Quality Control of Subband Coded Images using Fuzzy Logic and Neural Networks
9:00	Session S5	
10:00	<i>Coffee Break</i>	
10:30	Plenary Session P3	
11:30	Session S6	Session S7
12:30	<i>Lunch</i>	
14:00	Session S8	Tutorial T2: Voice Portals: The next generation Speech Recognition Application
15:00	Session S9	
16:00	<i>Coffee Break</i>	
16:30	Session S10	Tutorial T3: Modern Asynchronous Circuits: Applications, Design and Analysis
17:30	Session S11	
18:30		

Saturday, 9 June 2001

7:00 **One-day trip to "Pestera" cave in the Carpathian mountains.
"Get-together" Lunch & Dinner and night accommodation at "Pestera" hotel.**

Celebration of the "Politehnica" University of Bucharest Day -- 10 June

"Politehnica" University of Bucharest, Romania, June 7 - 9, 2001

Thursday, 7 June 2001, room AN010

8:00	Registration
9:00	Opening Session
9:30	Plenary Session P1 Chairs: Branka Zovko-Cihlar, <i>University of Zagreb, HR</i> , Andrei Tugulea, <i>"Politehnica" University of Bucharest, RO</i> <ul style="list-style-type: none"> • P. Cristea, <i>"Politehnica" University of Bucharest, RO</i>, Genetic Signals: An Emerging Concept • J. Turán, K. Fazekas*, P. Farkaš and D. Šiškovičová, <i>University of Technology Košice, SK</i>, (* <i>University of Technology Budapest, HU</i>), Invariant Feature Extraction Based on Hough Transform
10:30	Coffee Break
11:00	Special Session S1: The role of wavelets in modern multimedia standards Chairs: Jan Cornelis, <i>Vrije Universiteit Brussel, BE</i> , Ion Bănică, <i>"Politehnica" University of Bucharest, RO</i> <ul style="list-style-type: none"> • P. Schelkens and J. Cornelis, <i>Vrije Universiteit Brussel, BE</i>, Wavelets and Standards: An Overview • Y. Andreopoulos, P. Schelkens, T. Stouraitis* and J. Cornelis, <i>Vrije Universiteit Brussel, BE</i>, (* <i>University of Patras, GR</i>), Efficient Implementation of Wavelet Transforms - A Roadmap • G. Lafruit and B. Vanhoof, <i>Inter-university Micro Electronic Centre, Leuven, BE</i>, MPEG-4 Visual Texture Coding: Variform, Yet Temperately Complex • A. Chirila-Rus and B. Vanhoof, <i>Inter-university Micro Electronic Centre, Leuven, BE</i>, Implementation of a Scalable Wavelet MPEG-4 Compression System <p><i>Organized in collaboration with the Flemish FWO Image Processing Systems (IPS) Research Community and the AWI Bilateral Technological & Scientific Collaboration Programme.</i></p>
12:30	Lunch
14:00	Plenary Session P2 Chairs: Kalman Fazekas, <i>University of Technology Budapest, HU</i> , Ioan Constantin, <i>"Politehnica" University of Bucharest, RO</i> <ul style="list-style-type: none"> • B. Zovko-Cihlar, M. Suknaic*, M. Grgic, <i>University of Zagreb, (*) Croatian Telecom, HR</i>, Implication of Broadband Radio Access to UMTS • M. Grgic, S. Grgic, M. Ghanbari*, <i>University of Zagreb, HR, (*) University of Essex, UK</i>, Application of Gabor Filters for Efficient Image Representation
15:00	Session S2 Chair: Peter Schelkens, <i>Vrije Universiteit Brussel, BE</i> , Rodica Strungaru, <i>"Politehnica" University of Bucharest, RO</i> <ul style="list-style-type: none"> • A. Gavrilescu, R. Deklerck, A. Salomie and P. Dendale*, J. Cornelis, <i>Vrije Universiteit Brussel, (*) University Hospital Antwerp, BE</i>, Segmentation of the Left Ventricle of the Heart in Volumetric Cardiac MR Images: Evaluation Study of Classical and GVF- Snakes. • C. Vertan, V. Buzuloiu and N. Boujemaa*, <i>"Politehnica" University of Bucharest, RO, (*) IMEDIA Group, INRIA Rocquencourt, F</i>, Automatic Hybrid Segmentation Scheme for the Extraction of Visual Dominant Components • C. Amza, <i>De Montfort University, Leicester, UK</i>, Segmentation of Dual-Band Images of X-ray Chicken Breast using a Competitive Hopfield Neural Network
16:00	Coffee Break

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16:30	<p>Session S3 Chair: Radu Negulescu, <i>McGill University, Montreal, CA</i>,</p> <ul style="list-style-type: none"> • L. Mandic, S. Grgic and M. Grgic, <i>University of Zagreb, HR</i>, Monitor Calibration and Colour Management • I. Kuzmanić and I. Vujović, <i>Split, HR, College of Maritime Studies</i>, Performance Measure of Optical Communication System based on Lasers in Image Transmission • R. Dobrescu and M. Dobrescu, <i>"Politehnica" University of Bucharest, RO</i>, Reactive Flow Control for Multipoint Video Services
17:30	<p>Session S4 Chairs: Marek Domański, <i>Poznan University of Technology, PO</i>, Nicolae Olariu, <i>University "Valachia" of Targoviste, RO</i></p> <ul style="list-style-type: none"> • V. Ila, P. Ridao and J. Battle, <i>University of Girona, S</i>, A New Parallel Architecture To Deal With Real-Time Computer Image Processing • C. Vertan, V. Buzuloiu and C. Fernandez-Maloigne*, <i>"Politehnica" University of Bucharest, RO</i>, (*) <i>University of Poitiers, F</i>, On The Introduction of a Multiresolution Fuzzy Runlength Image Description Scheme • R. Lukáč and S. Marchevský, <i>University of Technology, Košice, SK</i>, Three-Dimensional Vector Lum Smoothers
18:30	
19:30	Conference Dinner

Friday, 8 June 2001, rooms AN010 & AN034

8:00	<p>Tutorial T1:</p> <p>Standard and Subjective Image Quality Control of Subband Coded Images using Fuzzy Logic and Neural Networks</p> <p>Peter Planinšič</p> <p><i>University of Maribor, Fac. of EE&CS, Maribor, Slovenia</i></p>	
9:00	<p>Session S5 Chair: Panos Liatsis, <i>UMIST, Manchester, UK</i></p> <ul style="list-style-type: none"> • J. Ochodnický, J. Tkáč and Š. Špirko, <i>Military Academy, L. Mikuláš, SK</i>, Radar Target Tracking by Neural Kalman Filter • J. Tkáč, <i>Military Academy, L. Mikuláš, SK</i>, Radar Object Recognition by Wavelet Transform • Y. Boutalis, B. Mertzios, and A. Moise*, <i>Democritus University of Thrace, GR</i>, (*) <i>Oil and Gas University of Ploiesti, RO</i>, Morphological Associators for Pattern Recognition 	
10:00	Coffee Break	
10:30	<p>Plenary Session P3 Chair: Daniel Bunea, <i>"Politehnica" University of Bucharest, RO</i></p> <ul style="list-style-type: none"> • M. Kessler and M. Boehnert, <i>University of Erlangen-Nuremberg, D</i>, Significance of back-scattered light intensity for quantitative optical measurements in tissue • A. Hussain and P. Liatsis*, <i>De Montfort University, Leicester</i>, (*) <i>UMIST, Manchester, UK</i>, Financial Time-Series Prediction using Second-Order Pipelined Recurrent Neural Networks 	

Friday, 8 June 2001, rooms AN010 & AN034

11:30	<p>Session S6 Chair: Manfred Kessler, <i>University of Erlangen-Nuremberg, D,</i></p> <ul style="list-style-type: none"> • A.O.A. Salam, Y. AL-Assaf, <i>American University of Sharjah, United Arab Emirates,</i> Classifying Myoelectric Signals by using Correlation Method • M. Ungureanu, W. Wolf*, R. Strungaru, <i>"Politehnica" University of Bucharest, RO,</i> (*) <i>Universität der Bundeswehr München, D,</i> Diafragmatic EMG Signal Analysis and Simulation • A. D. Ionita, <i>"Politehnica" University of Bucharest, RO,</i> Electroneurogram Signal Detection with Third Order Statistics 	<p>Session S7 Chair: Radu Dobrescu, <i>"Politehnica" University of Bucharest, RO</i></p> <ul style="list-style-type: none"> • F. Beritelli, G. Di Marco, L. Fortuna, M. Francese*, <i>Univ. of Catania,</i> (*) <i>Multimedia Technologies Institute – Catania, Italy,</i> Synchronization of CNN-based Chua Circuits for Secure Communications in R.F. Channels • I. Nastac, <i>"Politehnica" University of Bucharest, RO,</i> A New Way for Neural Networks Training • V. Trifa, V.T. Dădârlat, A. Peculea, <i>Technical University of Cluj-Napoca, RO,</i> Evaluation of Switched Reluctance Motor Magnetization Surface by Backpropagation Neural Network
12:30	Lunch	
14:00	<p>Session S8 Chair: F. Beritelli, <i>University of Catania, Italy</i></p> <ul style="list-style-type: none"> • F. Beritelli, S. Serrano*, <i>DIIT - University of Catania,</i> (*) <i>MTI, Catania, Italy,</i> A Robust and Simple Isolated Word Recognition Algorithm Implemented on "Active Template Library" Technology • I. Gavut, Z. Valsan, G.Ovidiu, B. Sabac and M. Zira, <i>"Politehnica" University of Bucharest, RO,</i> Fuzzy Variants for Speech Recognition Algorithms • S. Stanković, D. Milovanović, U. Batričević, and R. Maksimović*, <i>Fac. of EE, University of Belgrade,</i> (*) <i>School of Medicine, University of Belgrade, YU,</i> Wavelets in Biomedical Signal Processing 	<p>Tutorial T2:</p> <p>Voice Portals: The next generation Speech Recognition Application</p> <p>Cristina Dobrin</p> <p><i>IP Mobility Networks, Network Platforms</i> <i>Nokia Networks, Helsinki, Finland</i></p>
15:00	<p>Session S9 Chair: Vasile Buzuloiu, <i>"Politehnica" University of Bucharest, RO</i></p> <ul style="list-style-type: none"> • R.Iordache and A.Beghdadi*, <i>Tampere University of Technology, SF,</i> (*) <i>Université Paris XIII, F,</i> Single-Quadrant Analytic Images for 2-D Discrete Wigner-Ville Distribution • M. Breznan and M. Smith*, <i>University of Zilina, SK,</i> (*) <i>University of East London, UK</i> A Newton-Raphson Iteration Algorithm For 3-D Image Reconstruction • R. Ghozi, <i>Ecole Supérieure de Communications de Tunis, Tunis</i> Fractal Characterisation of Non-Gaussian Critical Markov Random Fields 	
16:00	Coffee Break	

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16:30	<p>Session S10 Chair: Cristian Negrescu, "Politehnica" University of Bucharest, RO</p> <ul style="list-style-type: none"> • C-M. Yang, Y-S. Ho, Kwangju Institute of Science and Technology, Korea, A Quadtree-based Embedded Block Coder for Scalable Image Compression • I. Milak, B. Zovko-Cihlar*, S. Grgic*, R&D Department Hirschmann Austria GmbH, AU, (*) University of Zagreb, Fac. of EE & C, Zagreb, HR, Output Filter Unit in Digital Video Broadcasting Transmitter's Chain • D. Z. Lenardić, B. Zovko-Cihlar*, KPMG Consulting, Zagreb, (*)University of Zagreb, HR, Modeling and Simulation of Modern Computer Network 	<p>Tutorial T3:</p> <p>Modern Asynchronous Circuits: Applications, Design and Analysis</p> <p>Radu Negulescu</p> <p><i>ECE Department, McGill University Montreal, Quebec, Canada</i></p>
17:30	<p>Session S11 Chair: Florea Hantila, "Politehnica" University of Buchares, RO</p> <ul style="list-style-type: none"> • S. D. Grigorescu, V. Trusca, "Politehnica" University of Bucharest, RO, LabVIEW Software for a Partial Discharge Test Equipment • D. E. Tiliute, Technical University "Stefan cel Mare" Suceava, RO, State Variable Active Filter using Current Conveyors • M. Iordache, L. Dumitriu, "Politehnica" University of Bucharest, RO, A Diakoptic Technique for setting up the Symbolic State Equations of Large-Scale Analog Circuits 	
18:30		

Saturday, 9 June 2001

7:00 One day trip to "Pestera" cave in the Carpathian mountains.
"Get-together" Lunch & Dinner and night accommodation at "Pestera" hotel.

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