

SCI ' 99 / ISAS ' 99 PAPER SESSIONS SCHEDULE

HOUR	ROOM	SUNDAY 01	MONDAY 02	TUESDAY 03
7:45 am – 8:00 am	Ball		Plenary Session	
8:00 am – 9:30 am	Ball	Plenary Session	Plenary Session	Plenary Session
9:30 am – 12:00 m	1	Image and Signal Processing I	Image and Signal Processing IV	Image and Signal Processing VII
	2	Neural Networks I	Cooperative Multi-Agent Systems and Collective Intelligence I	Network Architectures, Topologies and Protocols I
	3	Object Orientation I	User Interface Design	Development Methods and Methodologies I
	4	Special Methodologies for Specific Kinds of Applications I	Computing Techniques I	Computing Techniques IV
	5	Graphs, Algorithms and Language Processing I	Information Technologies Applied to New Organizational Methods I	Information Systems Management I
	6	Virtual Engineering I	Management Support Systems I	Software Engineering and CASE Technologies I
	7	Transmission Systems I	Business Process Modeling	Broadband Networks I
	8	Globalization, Development and Emerging Economies	1st Symposium on Reusable Architectures and Components for Developing Distributed Information Systems I – Focus Symposium	Information Systems Education
	9	Educational Support Systems	Control Systems I	Control Systems IV
	10	Architecture Tools and Algorithms for Networks Parallel and Distributed Systems – Focus Symposium	Intelligent Data Mining and Knowledge Discovery – Invited Session	SCI in Biology and Medicine I
	11	Multi-Model Partitioning In The 21st Century' Signal Processing- Communications-Computing- Automation I – Focus Symposium	Tools and Methodologies for Product Modeling and Exchange II – Invited Session	Evolutionary Programs II
	12	Human Information Systems I	Practical Application of Agents and Multi-Agent Systems I - Invited Session	SCI in Art
	13	Informing Science – Invited Session	Reliable and Fault Tolerant Information Systems – Invited Session	Mobile / wireless computing II
	14			
1:30 pm – 3:30 pm	1	Image and Signal Processing II	Image and Signal Processing V	Speech and Acoustic Processing I
	2	Neural Networks II	Cooperative Multi-Agent Systems and Collective Intelligence II	Network Architectures, Topologies and Protocols II
	3	Object Orientation II	Requirements Engineering	Mathematical Methods and Optimization I
	4	Special Methodologies for Specific Kinds of Applications II	Computing Techniques II	Computing Techniques V
	5	Graphs, Algorithms and Language Processing II	Information Technologies Applied to New Organizational Methods II	Information Systems Management II
	6	Virtual Engineering II	Management Support Systems II	Software Engineering and CASE Technologies II
	7	Transmission Systems II	Voice and Video Communication Systems II	Broadband Networks II
	8	Genetic Algorithms	1st Symposium on Reusable Architectures and Components for Developing Distributed Information Systems II – Focus Symposium	Intra-, Extra- and Internet I
	9	Conceptual Infrastructure of SCI	Control Systems II	Control Systems V
	10	Wireless and Mobile Computing I - Invited Session	Process Technology I - Invited Session	SCI in Biology and Medicine II
	11	Multi-Model Partitioning In The 21st Century' Signal Processing- Communications-Computing- Automation II – Focus Symposium	Humanoid Robots – Invited Session	Modeling and Control of Intelligent Systems – Invited Session

	12	Human Information Systems II	Practical Application of Agents and Multi-Agent Systems II - Invited Session	Towards a Convergence between Multimedia Systems and Real Time Systems - Invited Session
	13	Agent-Based Collaborative Design and Manufacturing - Invited Session	Higher Education Evaluation: Support Systems, Models, Case Studies – Invited Session	Development Methods and Methodologies II
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4:00 pm – 6:00 pm	1	Image and Signal Processing III	Image and Signal Processing VI	Speech and Acoustic Processing II
	2	Neural Networks III	Cooperative Multi-Agent Systems and Collective Intelligence III	Network Architectures, Topologies and Protocols III
	3	Object Orientation III	Evolutionary Programs I	Mathematical Methods and Optimization II
	4	Special Methodologies for Specific Kinds of Applications III	Computing Techniques III	Computing Techniques VI
	5	Graphs, Algorithms and Language Processing III	Economic and Financial Systems	Multimedia Processing
	6	Voice and Video Communication Systems I	Management Support Systems III	SCI in Psychology
	7	Transmission Systems III	Groupware Technology in Mobile Environment – Invited Session	Robotics
	8	Training and Organizational Learning	1st Symposium on Reusable Architectures and Components for Developing Distributed Information Systems III – Focus Symposium	Intra-, Extra- and Internet II
	9	Natural Resources	Control Systems III	Fuzzy Systems
	10	Wireless and Mobile Computing II - Invited Session	Process Technology II- Invited Session	SCI in Biology and Medicine III
	11	Neural Network Applied to Classification, Prediction and Automatic Control - Invited Session	Internet, Telematic and Multimedia: Trends, Applications and Developments - Invited Session	Virtual Universities
	12	Information Systems in Higher Education – Invited Session	Applications to Medicine and the Health Sciences – Focus Symposium / HIV-Epidemic and Pathogenesis – Invited Session	Text Retrieval in web Environments – Invited Session
	13	Tools and Methodologies for Product Modeling and Exchange I – Invited Session	Mobile / wireless computing I	A Model for Assessment: A Demo – Invited Session
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SCI '99 / ISAS ' 99 PROGRAM

SATURDAY JULY 31, 1999	
4:00 pm – 6:00 pm	Registration
SUNDAY AUGUST 1, 1999	
8:00 am – 9:30 am	Plenary Session
SUNDAY AUG. 1	Image and Signal Processing I (Room No. 1)
9:30 am – 12:00 m	
	<ul style="list-style-type: none"> • Abbadi, Mohammad; Youssef, Abdou (U.S.A.): "Block DCT-based Indexing of Image Databases"

	<ul style="list-style-type: none"> • Bassetti, Federico; Davis, Kei (U.S.A.): "Exploiting Temporal Locality in Stencil Based Applications"
	<ul style="list-style-type: none"> • Cao, Ying; Liu, Jun (Singapore): "An Analysis of Spatial Correlation Functions for Color Image Classification"
	<ul style="list-style-type: none"> • Cao, Ying; Liu, Jun (Singapore): "Texture Classification using a Wold-Decomposition Based Model"
	<ul style="list-style-type: none"> • Chen, Liya; Khwang Teoh, Eam (Singapore): "Motion Estimation Based on Affine-Invariant Features"
	<ul style="list-style-type: none"> • Chen, Pei-Chun; Chen, Yung-Sheng; Hsu, Wen-Hsing (Taiwan, Republic of China): "A Communication System Model for Digital Image Watermarking Problems"
	<ul style="list-style-type: none"> • Chen, Tao; Wu, Hong Ren (Australia): "Objective Quality Assessment for Digital Video Coding Based on Human Vision Model"
SUNDAY AUG. 1 9:30 am – 12:00 m	Neural Networks I (Room No. 2)
	<ul style="list-style-type: none"> • Adami, Andre Gustavo; Lazzaroto, Gustavo; Foppa, Enio; Couto Barone, Dante Augusto (Brazil): "A Building Security System using Speaker Identification with an Artificial Neural Network Model as a Classifier"
	<ul style="list-style-type: none"> • Albanis, George T.; Batchelor, Roy A. (United Kingdom): "Assessing the Long-Term Credit Standing of Debt Issuers Using Dimensionality Reduction Techniques Based on Neural Networks An Alternative to Overfitting"
	<ul style="list-style-type: none"> • Cramer, Christopher; Gelenbe, Erol (U.S.A.): "Artificial Neural Networks for Video Compression via Temporal Interpolation"
	<ul style="list-style-type: none"> • Czy ewski, A.; Lasecki, J.; Kostek, B. (Poland): "Neural Network-Based Beamformer"
	<ul style="list-style-type: none"> • Gonçalves, Márcio L. (Brazil): "Search of Techniques to Improve Artificial Neural Networks Training Time"
	<ul style="list-style-type: none"> • Guedelha, K.C.P.; Seixas, J.M. (Brazil): "A Neural Estimation of the Parking Space Needed in Shopping Centers"
SUNDAY AUG. 1 9:30 am – 12:00 m	Object Orientation I (Room No. 3)
	<ul style="list-style-type: none"> • Alonso, Fernando; Fuertes, Jose Luis; Gonzalez, Angel Lucas; Montes, Cesar (Spain): "Towards a New Quality Model to Support the Object-Oriented Software"
	<ul style="list-style-type: none"> • Badr El Din, Amr *; Baraka, Hoda *; Nikolik, Dragan ** (* Egypt, ** The Netherlands): "Object-Oriented Model for Real-Time Operating Systems"
	<ul style="list-style-type: none"> • Bencomo, N.; Blanco, A.; Correa, E.; Matteo, A. (Venezuela): "An experience using OOSE for a Graphical Multi-User Interface based on Distributed Objects"
	<ul style="list-style-type: none"> • Chacon, Edgar; Molina, Ana Iria; Montilva, Jonas (Venezuela): "Object Oriented Modeling to Build Integrated Automation for Continuous Production Systems"
	<ul style="list-style-type: none"> • Galan Morillo, Francisco Jose; Cañete, M. (Spain): "On the Formal Translation of Object-Oriented Software Specifications: A Balanced Approach"
	<ul style="list-style-type: none"> • Yeh, Downing; Chuang, Shuching (Taiwan, Republic of China): "A Supporting Tool for Introducing Design Patterns intoThe Object-Oriented Development"
SUNDAY AUG. 1 9:30 am – 12:00 m	Special Methodologies for Specific Kinds of Applications I (Room No. 4)
	<ul style="list-style-type: none"> • Abeta, Akira; Kakizaki, Ken'ichi (Japan): "Work Events Organizing Method Based on Sequential References in a User's Operation Record"
	<ul style="list-style-type: none"> • Albanesi, Maria Grazia; Ferretti, Marco; Giancane, Alessandro (Italy): "A Visual Tool for fuzzy Data Analysis and Decision Support"
	<ul style="list-style-type: none"> • Aluen, Miguel; Arrechdera, Hector; Matteo, Alfredo; Metzner, Christiane; Niño, Norelva; Valero, Ana (Venezuela): "Zeus: An Authoring Tool for Expert Medical Knowledge"
	<ul style="list-style-type: none"> • Belkhatir, Noureddine (France): "On Process Sensitive Systems Architecture: Applying Design Patterns"

	<ul style="list-style-type: none"> • Chiu, Long; Pollack, Nathan; Serafino, George; Teng, William; Wong, David (U.S.A): "Disseminating National Aeronautics and Space Administration (NASA) Earth Remotely Sensed Data to the Agriculture and Natural Resource Management Communities"
SUNDAY AUG. 1 9:30 am – 12:00 m	Graphs, Algorithms and Language Processing I (Room No. 5)
	<ul style="list-style-type: none"> • Alabbadi, Mohssen; Alrumaih, Rumaih (Saudi Arabia): "On the Memory Efficiency and Search time for Huffman Coding Scheme"
	<ul style="list-style-type: none"> • Arrechadera, Hector; Correa, Eliecer; Matteo, Alfredo; Metzner, Christiane; Romero, Manuel (Venezuela): "Redesigning with Design Patterns"
	<ul style="list-style-type: none"> • Carlson, Vanessa N.; Chassande, Jean Pierre (Venezuela): "Object Oriented Techniques in the Design of an Harmonic Power Flow Simulation Tool"
	<ul style="list-style-type: none"> • Chao, Daniel Y.; Nicdao, Jose A.; Tang, Jih-Hsin; Chen, Yi-Kung (Taiwan, Republic of China): "Second Order Structures for Synchronized Choice Ordinary Petri Nets"
	<ul style="list-style-type: none"> • Davis, Kei (U.S.A.): "TecScript: A Scripting Language Design for Large-scale Object-oriented Component-based Application Frameworks"
	<ul style="list-style-type: none"> • Eier, Richard (Austria): "Mapped Markov chains for modeling non-Markovian processes"
	<ul style="list-style-type: none"> • El-Sonbaty, Yasser; Ismail, Mohamed (Egypt): "A new Efficient Algorithm for Matching Weighted Graphs"
SUNDAY AUG. 1 9:30 am – 12:00 m	Virtual Engineering I (Room No. 6)
	<ul style="list-style-type: none"> • Afshari, Kaveh E.; Payandeh, Shahram (Canada): "Toward Implementation of Java/VRML Environment for Planning Training and Tele-Operation Robotic Systems"
	<ul style="list-style-type: none"> • Alonso, Fernando; Barreiro, Jose M.; Frutos, Sonia; Montes, Cesar (Spain): "Multi-Agent Framework for Intelligent Questionnaires on the WEB"
	<ul style="list-style-type: none"> • Baszun, Mikolaj *; Czejo, Bogdan Denny ** (* Poland, ** U.S.A.): "Distributed Engineering Design Using Computer Networks"
	<ul style="list-style-type: none"> • Bonyuet, David *; Monferrer, Alexandre ** (* Venezuela, ** Spain): "Tools to Improve Virtual Interfaces"
	<ul style="list-style-type: none"> • Campos, Jorge Alberto; Teixeira, Cesar; Pimentel, Maria da Graca; Da Costa Pinto, Claudio (Brazil): "Taking Advantage of the Markup Language Approach in Designing Virtual Collaborative Engineering Environments"
	<ul style="list-style-type: none"> • Correa, Alexandra; Galvez, Carlos; Losavio, Francisca (Venezuela): "Multiagent Models Based Architecture for Internet Applications"
	<ul style="list-style-type: none"> • Frery, Alejandro C. *; Groth, Boris **; Jähnichen, Stefan **; Kelner, Judith *; Soares Pessoa, Bárbara Diniz *; Teichrieb, Veronica * (* Brazil, ** Germany): "Organizing Web Sites with Architectural Metaphors"
	<ul style="list-style-type: none"> • Harrouet, Fabrice; Reignier, P.; Tisseau, J. (France): "Multi-Agent Systems and Virtual Reality for Interactive Prototyping"
SUNDAY AUG. 1 9:30 am – 12:00 m	Transmission Systems I (Room No. 7)
	<ul style="list-style-type: none"> • Ahn, Soyeon; Lee, Younghee (Republic of Korea): "A Preemptive Memory Management Scheme for Active Node Operating System"
	<ul style="list-style-type: none"> • Al-Hajery, Eyas (Saudi Arabia): "Routing of Guaranteed Quality of Services Connections Using Multiple Paths"
	<ul style="list-style-type: none"> • Almeida, Luis *; Chavez, Miguel Leon **; Fonseca, Jose Alberto *; Thomesse, Jean Pierre ** (* Portugal, ** France): "Real Time Communications in Manufacturing"
	<ul style="list-style-type: none"> • Bassiouni, Mostafa; Guha, Ratan; Balam, Muddapu; Reddy, Y. (U.S.A.): "Finite State Automaton and Petri-net Models for Real-time Compliance Testing"
	<ul style="list-style-type: none"> • Ehrensberger, Jurgen (Switzerland): "Resource Demand and Loss Probabilities of Aggregated Resource Reservation"
	<ul style="list-style-type: none"> • Mak, Wai Ming; Cheung, To-Yat (Hong Kong): "A Framework and Review on Formal Methods for Managing Feature Interactions in Telecommunications Systems"

SUNDAY AUG. 1 9:30 am – 12:00 m	Globalization, Development and Emerging Economies (Room No. 8)
	<ul style="list-style-type: none"> • Benyahia, Ilham (Canada): "A Methodology for Complex Network Behaviors Describing"
	<ul style="list-style-type: none"> • Eggs, Holger; Englert, Jürgen (Germany): "Inter-organizational Networking of Small and Medium-Sized Enterprises – A Framework and Hypotheses-Based Case Studies"
	<ul style="list-style-type: none"> • Liao, Chechen; Hsu, Yun-Ting (Taiwan, Republic of China): "How TBDF Regulations Affect the Operation of Multinational Corporations via Global Information Systems"
	<ul style="list-style-type: none"> • To, Pui Lai; Liao, Chechen (Taiwan, Republic of China): "The Role of Information Systems Leaders in Taiwan"
	<ul style="list-style-type: none"> • Tsai, Min-Jen; Wu, Tai-Hong (Taiwan, Republic of China): "The Information Technology for EDI over Internet with Multimedia Capability – A Collaboration Model Using SMTP and Mail Agent in Business Applications"
SUNDAY AUG. 1 9:30 am – 12:00 m	Educational Support Systems (Room No. 9)
	<ul style="list-style-type: none"> • Boccignone, Giuseppe; Chianese, Angelo; Picariello, Antonio (Italy): "Bip On Line: A Software Project Library On The Internet"
	<ul style="list-style-type: none"> • Ferreira, Deller James; Fuks, Hugo (Brazil): "The Application of Workflow Technology in Learningware"
	<ul style="list-style-type: none"> • Flor, Lorena; Fuertes, Jose L.; Gonzalez, Angel L.; Varela, Juan I. (Spain): "The "Activities Exhibitor": A Way to Build Auto-Adaptive Tutoring Systems"
	<ul style="list-style-type: none"> • Garcia de la Vega, Dalia Margarita (Cuba): "An Experience in the Preparation of Teachers in Educational Informatics"
	<ul style="list-style-type: none"> • Matout Tarrab, Sandra; Ortiz Sosa, Lourdes Maritza (Venezuela): "Systemic Model for Software Engineering Teaching in Computer Science Professional Careers"
	<ul style="list-style-type: none"> • Pun, Y. W.; Wong, P.C. (Hong Kong): "The Inclusion of Motivation Elements in Designing Computer-Aided Learning Software"
	<ul style="list-style-type: none"> • Sanchez Rodriguez, Maria de la Natividad; Aveledo, Marianella (Venezuela): "Design of a Training Support System in the Information Technology Area"
	<ul style="list-style-type: none"> • Tanaka, Chiyoji; Asai, Munemi (Japan): "An Adaptive Learning Assistance System for Information Technology Engineers National Examination (ADLES-IT)"
SUNDAY AUG. 1 9:30 am – 12:00 m	Architecture Tools and Algorithms for Networks Parallel and Distributed Systems – Focus Symposium (Room No. 10) Organizer: Jose Lisandro Aguilar Castro Chair: Jose Lisandro Aguilar Castro
	<ul style="list-style-type: none"> • Aguilar, Jose (Venezuela): "File Descomposition and Assignment Problems on Distributed Systems"
	<ul style="list-style-type: none"> • Baran, Benjamin; Laufer, Fabian (Paraguay): "Topological Optimization of Reliable Networks using A-Teams"
	<ul style="list-style-type: none"> • De Vivo, Marco; Carrasco, Eddy; Isern, Germinal; De Vivo, Gabriela O. (Venezuela): "A Survey on TCP Port Scanning"
	<ul style="list-style-type: none"> • Inoue, Hiroataka and Narihisa, Hiroyuki (Japan): "Performance of Self-Generating Neural Network Applied to Pattern Recognition"
	<ul style="list-style-type: none"> • Isern, Germinal; Sena, Giuseppe A. (U.S.A.): "A Quality of Service Routing Algorithm"
	<ul style="list-style-type: none"> • Zavala Diaz, Jose Crispin; Sanchez Velazquez, Jesus; Zarate Silva, Victor Hugo (Mexico): "Use of the Grasp Methodology for Tasks Allocation in MIMD Parallel Computers"
SUNDAY AUG. 1 9:30 am – 12:00 m	Multi-Model Partitioning In The 21st Century' Signal Processing-Communications-Computing-Automation I – Focus Symposium (Room No. 11) Organizer: D. G. Lainiotis (Greece) Chair: D. G. Lainiotis (Greece)

	Co-Chair: S. K. Katsikas (Greece)
	<ul style="list-style-type: none"> Assimakis, N.D.; Giannakopoulos, P.K.; Lainiotis, D.G.; Sanida, F.L.; Ventzas, D.; Tziallas, G.; Koutsonikolas, A. (Greece): "Centralized and Distributed Algorithms for the Solution of the Discrete Time Riccati Equation"
	<ul style="list-style-type: none"> Beligiannis, G.N.; Likothanassis, S. D.; Katsikas, S.K. (Greece): "Evolutionary System Identification Using Multi Model Partitioning Theory"
	<ul style="list-style-type: none"> Giannakopoulos, Pavlos K.; Katsikas, Sokratis K.; Lainiotis, Demetrios G. (Greece): "Estimation of Non-Linear Systems with Non-Gaussian Initial Conditions"
	<ul style="list-style-type: none"> Katsikas, Sokratis K.; Likothanassis, Spiros D. (Greece): "Efficient Parallel Implementations of Lainiotis Filters"
	<ul style="list-style-type: none"> Leros, Assimakis K.; Katsikas, Sokratis K. (Greece): "Adaptive Tracking of a Maneuvering Target by a Towed Array Using Multimodel Partitioning Algorithms"
	<ul style="list-style-type: none"> Likothanassis, S. D. (Greece): "Intelligent Multi-Model Minimum Variance Controllers"
SUNDAY AUG. 1 9:30 am – 12:00 m	Human Information Systems I (Room No. 12)
	<ul style="list-style-type: none"> Al-Qaimari, Ghassan; Bruno, Vince (Australia): "Visualization Techniques for Representing Distributed Data and Distributed Query Execution Plans"
	<ul style="list-style-type: none"> Baran, Benjamin; Rojas, Alberto; Britez, Daniel; Baran, Leticia (Paraguay): "Measurement and Analysis of Poverty and Welfare using Fuzzy Sets"
	<ul style="list-style-type: none"> Bordegoni, Monica (Italy): "Human Skill Acquisition Through Hand Gesture and Haptic Interaction"
	<ul style="list-style-type: none"> Cipolla Ficara, Francisco V. (Spain): "Evaluation Heuristic of the Richness"
	<ul style="list-style-type: none"> Cipolla Ficara, Francisco V. (Spain): "MEHEM for the Representative Evaluation of Quality in Multimedia System"
	<ul style="list-style-type: none"> Fernandez, Camino; Diaz, Paloma; Aedo, Ignacio; Matellan, Vicente (Spain): "WAY: A User Adapted Access to Information"
	<ul style="list-style-type: none"> Garlatti, S.; Iksal, S.; Kervella, P. (France): "Adaptive On-Line Information System"
SUNDAY AUG. 1 9:30 am – 12:00 m	Informing Science – Focus Symposium (Room No. 13) Organizer: Eli Cohen Chair: Eli Cohen
	<ul style="list-style-type: none"> Carroll, Charles (The Netherlands): "Virtual Programs Create E-Commerce Nightmares"
	<ul style="list-style-type: none"> Cohen, Eli *; Boyd, Elizabeth C.** (* Poland, ** U.S.A.): "Introduction to Informing Science"
	<ul style="list-style-type: none"> Johnson, Leslie; Stergiou, Maria (United Kingdom): "Emergent Design and Development of Information Systems: The Theoretical Justification"
	<ul style="list-style-type: none"> Maniotes, John; Winer, Charles (U.S.A.): "Integration of Field Experiences in Computer Hardware/Software Selection: A Senior Capstone Course"
SUNDAY AUG. 1 1:30 pm – 3:30 pm	Image and Signal Processing II (Room No. 1)
	<ul style="list-style-type: none"> De Rycke, Dirk; Wilfried, Philips; Lemahieu, Ignace (?): "Lossless nonlinear predictive coding of 3D image data through context matching"
	<ul style="list-style-type: none"> Ginzburg, Vera: "Anthropomorphic OPR Method"
	<ul style="list-style-type: none"> Harris, C. J.; Gao, J.B. (United Kingdom): "Adaptive Multiscale Basis Method for Nonlinear Modelling: Function Space Decomposition Approach"
	<ul style="list-style-type: none"> Mir Mohamad Hosseini, Habib *; Bouzerdoum, Abdesselam ** (* Singapore, ** Australia): "Deformation Analysis of Persian and Arabic Characters"
	<ul style="list-style-type: none"> Khasawneh, Baha; Youssef, Abdou (U.S.A.): "Non-uniform Error Protection for Wavelet Transformed Images"

	<ul style="list-style-type: none"> • Konishi, Tsuyoshi; Ichioka, Yoshiki (Japan): "Ultra-fast Optical space-to-time-to-space Conversion Technique among Image Signals and Time Sequential Ones"
	<ul style="list-style-type: none"> • Lee, Chin-Feng; Chang, Chin-Chen (Taiwan, Republic of China): "A New Iconic Indexing Scheme for Similarity Retrieval of Complex Spatial Objects"
SUNDAY AUG. 1 1:30 pm – 3:30 pm	Neural Networks II (Room No. 2)
	<ul style="list-style-type: none"> • De Franceschi, Analucia Schiaffino Morales; Barreto, Jorge Muniz (Brazil): "Autonomous Agents based on Recurrent Neural Networks Applied to Computer Network Management"
	<ul style="list-style-type: none"> • Jeanmeure, Laurent F.C.; Zimmerman, William B.J. (United Kingdom): "Developing a Cellular Neural Network based Control System for a Coal Froth Flotation Process"
	<ul style="list-style-type: none"> • Land, Walker H.; Khan, Seema A.; Gheorghiu, Mihaela (U.S.A.): "Application of Evolutionary Programming and Probabilistic Neural Networks to Estimating the Development of Breast Cancer"
	<ul style="list-style-type: none"> • Meghabghab, George *; Nasr, George ** (* U.S.A., ** Lebanon): "Stochastic Simulations Metamodels: RBF Neural Networks in Manufacturing Domain"
	<ul style="list-style-type: none"> • Rivas, Jesus Joel; Moreno, José Ali (Venezuela): "Comparison of the Methods of Neural Networks, Nonlinear Prediction Method of Casdagli and Group Method of Data Handling (GMDH) for Time Series Prediction"
SUNDAY AUG. 1 1:30 pm – 3:30 pm	Object Orientation II (Room No. 3)
	<ul style="list-style-type: none"> • Chen, Wei-Chou; Hong, Tzung-Pei; Lin, Wei-Yang (Taiwan, Republic of China): "View Maintenance of Object-Oriented Data Warehousing Using the Composite Model"
	<ul style="list-style-type: none"> • Djafri, Bachir; Hamouche, Redha; Benzakki, Judith; Israel, Michel (France): "Object Oriented Modeling for System Design"
	<ul style="list-style-type: none"> • Hernandez, German; Niño, Fernando; De Castro, Rodrigo (Colombia): "Dynamical Systems Arising in Nondeterministic Object Oriented Programs"
	<ul style="list-style-type: none"> • Kim, Hyun-Ki; Roh, Dae-Sik; Kang, Hyun-Kyu (Republic of Korea): "Generalized SGML Repository System using ODMG Object Model"
	<ul style="list-style-type: none"> • Lopez, Maria Gertrudis; Guzman, Pedro; Granado, Jennifer; Lares, Jesus (Venezuela): "Construction Method of Applications in an Intranet with Access to Object-Oriented Data Bases"
	<ul style="list-style-type: none"> • Yu, Liu; Khong, Siew Chee (Singapore): "Object-Oriented Analysis Needs Explicit Change Analysis"
SUNDAY AUG. 1 1:30 pm – 3:30 pm	Special Methodologies for Specific Kinds of Applications II (Room No. 4)
	<ul style="list-style-type: none"> • Feng, Ming; Harris, C. J. (United Kingdom): "A New Partitioning Approach for Constructing Fuzzy Models"
	<ul style="list-style-type: none"> • Fuchs, Siegfried *; Bringmann, Oliver *; Oganowski, Wladyslaw ** (* Germany, ** Ukraine): "Context Sensitive Analysis of Urban Main Network Plans"
	<ul style="list-style-type: none"> • Harmon, Scott Y. (U.S.A.): "Evaluating and Comparing the Performance of Intelligent Systems"
	<ul style="list-style-type: none"> • Hunter, Steven W. ; Smith, W. Earl (U.S.A.): "Availability Modeling and Analysis of a Two Node Cluster"
	<ul style="list-style-type: none"> • Miyazaki, Kaznteru; Kobayashi, Shigenobu (Japan): "On the Rationality of Profit Sharing in Partially Observable Markov Decision Processes"
SUNDAY AUG. 1 1:30 pm – 3:30 pm	Graphs, Algorithms and Language Processing II (Room No. 5)
	<ul style="list-style-type: none"> • Frimpong, Samuel; Changirwa, Robert M.M.; Szymanski, Josef (Canada): "Intelligent Modeling: Advances in Open Pit Mine Design and Optimization Research"

	<ul style="list-style-type: none"> Garrido, M. A.; Marquez, A.; Portillo, J. R.; Reyes, P. (Spain): "Drawing Constrained Rectangles in the Plane without Intersections"
	<ul style="list-style-type: none"> Hamie, Ali (United Kingdom): "Towards an Axiomatic Foundation for the Object Constraint Language"
	<ul style="list-style-type: none"> Inazumi, Hiroshige; Yoshizawa, Yumi (Japan): "Decision Trees by Modified Logic Minimization Algorithm"
	<ul style="list-style-type: none"> Kwok, S.H. (Hong Kong): "A Novel Recursive Region-Based Camera Break Minimization Algorithm"
	<ul style="list-style-type: none"> Li, Yuefeng; Zhang, Chengqi; Swan, Jason R. (Australia): "Rough Set Based Decision Model in Information Retrieval and Filtering"
	<ul style="list-style-type: none"> Shih, Heloisa Martins *; Yu, Lian **; Sekiguchi, Takashi ** (* Hong Kong, ** Japan): "Selection of Heuristic Rules by Fuzzy Inference"
SUNDAY AUG. 1 1:30 pm – 3:30 pm	Virtual Engineering II (Room No. 6)
	<ul style="list-style-type: none"> Iba, Takashi; Mizoe, Hiromasa; Takenaka, Heizo; Takefuji, Yoshiyasu (Japan): "Agent-Based Social Simulation as Novel Method for Economics"
	<ul style="list-style-type: none"> McCracken, Dennis B. (U.S.A.): "Nudging the Rise of an Integral Planetary Culture"
	<ul style="list-style-type: none"> Richard, Paul; Coiffet, Philippe (France): "Human Performance in Virtual Environments: Effect of Force Feedback in Dexterous Manipulation"
	<ul style="list-style-type: none"> Roux, Jean-Christophe; Roze, Alain (France): "Delaunay Meshing Applications"
	<ul style="list-style-type: none"> Shima, Hiroki; Iba, Takashi; Takefuji, Yoshiyasu (Japan): "Agent-based Simulation of Black Box Products Market"
	<ul style="list-style-type: none"> Wen, Jyh-Horng; Wang, Jyh-Yean (Taiwan, Republic of China): "Distributed Power Balancing with an Adaptive On-Off Strategy for CDMA Cellular Mobile Systems"
	<ul style="list-style-type: none"> Zigman, Franklin J.; Prywes, Noah (U.S.A.): "Agents in Action: Using Intelligent Agent Objects on the WWW in Software Development and Maintenance"
SUNDAY AUG. 1 1:30 pm – 3:30 pm	Transmission Systems II (Room No. 7)
	<ul style="list-style-type: none"> Favacho de Araujo, Aleteia Patricia; Santana, Marcos Jose; Carlucci Santana, Regina Helena; Lopes de Souza, Paulo Sergio (Brazil): "DPWP - A New Load Balancing-Algorithm"
	<ul style="list-style-type: none"> Hernandez-Valdez, Genaro; Cruz-Perez, Felipe; Lara-Rodriguez, Domingo (Mexico): "Dynamic Channel Assignment Schemes with Violation to the Reuse Pattern Using Vehicular Mobility Information"
	<ul style="list-style-type: none"> Hernandez-Valdez, Genaro; Cruz-Perez, Felipe; Lara-Rodriguez, Domingo; Lara, Mauricio (Mexico): "Exclusion Zones in DCA Schemes for Unidimensional Microcellular Systems"
	<ul style="list-style-type: none"> Huang, Lifei *; Wang, Pu, *; Chen, Huimin ** (* Republic of China, ** U.S.A.): "Optimal Routing Using Incentive Pricing Scheme in Noncooperative Communication Networks"
	<ul style="list-style-type: none"> Trehel, Michel; Housni, Ahmed (France): "Introduction of the Priority in Distributed Mutual Exclusion Algorithms"
	<ul style="list-style-type: none"> Truong, T. K.; Jeng, J.H. (Taiwan, Republic of China): "PGZ Algorithm for Correcting both Errors and Erasures of RS codes"
SUNDAY AUG. 1 1:30 pm – 3:30 pm	Genetic Algorithms (Room No. 8)
	<ul style="list-style-type: none"> Gomez Pulido, Juan A.; Sánchez Pérez, Juan M.; Fernández de Vega, Francisco (Spain): "A System Based On Genetic Algorithms For Improving The Digital Systems Representation"
	<ul style="list-style-type: none"> Goni, B. M.; Arslan, T.; Turton, B. (United Kingdom): "Power Driven Routing Using a Genetic Algorithm"
	<ul style="list-style-type: none"> Ko, Myung Sook; Hwang, Chong-Sun (Republic of Korea): "An Adaptive Genetic Algorithm based on Cellular Learning"

	<ul style="list-style-type: none"> • Le Lann, J.C., Wolinski, C. (France): "Load-balancing and Functional Unit Assignment in High-Level Synthesis"
	<ul style="list-style-type: none"> • Pazos, Alejandro; Dorado, Julian; Santos, Antonino; Rabuñal, Juan Ramón; Pedreira, Nieves (Spain): "Training of Recurrent ANN with Time Decreased Activation by GA to the Forecast in Dynamic Problems"
	<ul style="list-style-type: none"> • Popescu, Florin C. (U.S.A.): "A Next-Generation Genetic Programming Environment for Prediction: A Sample Financial Market Data Application"
	<ul style="list-style-type: none"> • Storch, Craig; Fulton, Steve; Sharman, Ken (United Kingdom): "A Distributed Approach To Evolvable System Design using FPGA's"
	<ul style="list-style-type: none"> • Wang, Kesheng; Woo, Tony (U.S.A.): "A Genetic Algorithm for Dynamic Job-Shop Scheduling"
SUNDAY AUG. 1 1:30 pm – 3:30 pm	Conceptual Infrastructure of SCI (Room No. 9)
	<ul style="list-style-type: none"> • Davidson, Alejandra; Wainer, Gabriel (Argentina): "A Specification Language for Traffic Modelling and Simulation"
	<ul style="list-style-type: none"> • Domingo, Carlos; Sananes, Marta (Venezuela): "The New SCI Wave"
	<ul style="list-style-type: none"> • Lang, Karl R.; Zhang, Jing L. (Hong Kong): "A Philosophical Foundation of Systems Modeling: An Integrative Approach Combining Eastern and Western Thought"
	<ul style="list-style-type: none"> • Rodriguez, Wladimir (Venezuela): "Fuzzy Sets Based Similarity of Dynamical Systems"
	<ul style="list-style-type: none"> • Troccoli, Alejandro; Wainer, Gabriel; Zlotnik, Sergio (Argentina): "Implementing the Alfa-1 Procesor using the DEVS paradigm"
	<ul style="list-style-type: none"> • Wainer, Gabriel *; Giambiasi, Norbert ** (* Argentina, ** France): "Results of Cellular Models Simulation"
	<ul style="list-style-type: none"> • Zanella, Marina; Lamperti, Gianfranco (Italy): "Justification Dimensions for Complex Computer Systems"
SUNDAY AUG. 1 1:30 pm – 3:30 pm	Wireless and Mobile Computing I - Invited Session (Room No. 10)
	Organizer: Gopal Racherla (Canada)
	Chair: Gopal Racherla (Canada)
	Co-Chair: Sridhar Radhakrishnan (U.S.A.)
	<ul style="list-style-type: none"> • Chiruvolu, Girish; Choyi, Vinod K.; Mohammed, Aziz (U.S.A.): "Mobility and QoS Support for Wireless Multimedia Traffic"
	<ul style="list-style-type: none"> • De, Pradipta; Banerjee, Nilajan; Saha, Debashis (India): "Using Greedy Search Techniques for Fast Sequential Paging in Cellular Networks"
	<ul style="list-style-type: none"> • Dirckze, Ravi; Iyengar, Sridhar (U.S.A.): "Metadata Repositories and Mobile Computing"
	<ul style="list-style-type: none"> • Maloo, Sunil; Qiao, Chunming (U.S.A.): "Efficient Routing and Fast Handoff in a Mobile ATM Network with a Hybrid Topology"
	<ul style="list-style-type: none"> • Moghe, Atul S.; Sen, Arunabha; Venkatachalam, Anand (U.S.A.): "Channel Borrowing Algorithm for Mobile Cellular Networks using Directional Locking and Load Balancing"
SUNDAY AUG. 1 1:30 pm – 3:30 pm	Multi-Model Partitioning In The 21st Century' Signal Processing-Communications-Computing-Automation II – Focus Symposium (Room No. 11)
	Organizer: D. G. Lainiotis (Greece)
	Chair: D. G. Lainiotis (Greece)
	Co-Chair: S. K. Katsikas (Greece)
	<ul style="list-style-type: none"> • Likothanassis, S. D.; Georgopoulos, E. F.; Manioudakis, G.D.; Adamopoulos, A.V. (Greece): "Multi Model Neural Network Estimators: A Survey of Recent Results"
	<ul style="list-style-type: none"> • Likothanassis, S. D.; Katsikas, S.K.; Demiris, E.N. (Greece): "Direction of Arrival Estimation via Extended Lainiotis Filters"
	<ul style="list-style-type: none"> • Plataniotis, K. N.; Lainiotis, Demetrios G. (Canada): "Adaptive Neural Estimators"

	<ul style="list-style-type: none"> Lainiotis, D.G.; Plataniotis, K. N. (Canada): "Fast Distributed Processing Algorithms for the Solution of Discrete Riccati Equations"
	<ul style="list-style-type: none"> Lainiotis, D.G.; Plataniotis, K. N. (Canada): "Superfast Distributed-Processing Implementations of Lainiotis Filters"
SUNDAY AUG. 1 1:30 pm – 3:30 pm	Human Information Systems II (Room No. 12)
	<ul style="list-style-type: none"> Hutchinson, W. (Australia): "Using a Bottom Up Perspective to Design Management and Software Systems"
	<ul style="list-style-type: none"> Kodama, Eiichiro; Sato, Kiwamu; Miyazaki, Masatosi (Japan): "A Model of Human-Oriented Information System for Controlling Multimedia Information"
	<ul style="list-style-type: none"> Jansen, Bernard J.; Pooch, Udo (U.S.A.): "Improving the Performance of Existing Information Retrieval Systems Using a Software Agent"
	<ul style="list-style-type: none"> Law, David Yuh Foong; Lee-Partridge, Joo Eng (Singapore): "Focus Group Study As A Qualitative Method for Information Systems Research"
	<ul style="list-style-type: none"> Lawless, William F.; Castelao, T.; Abubucker, C. P. (U.S.A.): "Interaction uncertainty: The Theory and Application of Social Bistability"
	<ul style="list-style-type: none"> Nijholt, Anton (The Netherlands): "Access and Exploration of Virtual Reality Interest Communities"
	<ul style="list-style-type: none"> Sisman, N. Arzu; Alpaslan, Ferda N.; Akman, Varol (Turkey): "A Neuro-Fuzzy MAR Algorithm for Temporal Rule-Based Systems"
SUNDAY AUG. 1 1:30 pm – 3:30 pm	Agent-Based Collaborative Design and Manufacturing - Invited Session (Room No. 13)
	Organizer: Weiming Shen (Canada)
	Chair: Weiming Shen (Canada)
	<ul style="list-style-type: none"> Hanachi, C. *; Maamar, Z. ** (* France, ** Canada): "Database Agentification for Workflows"
	<ul style="list-style-type: none"> Lores, Jesus; Sirera, Xavier; Vivancos, Joan; Prat, Albert; Serres, Esther (Spain): "Application in Mould Industry of a Distributed Agent System Based on a Visual Blackboard "
	<ul style="list-style-type: none"> Nakajima, Akira; Naganuma, Takefumi (Japan): "Automatic Configuration Management for Control Systems by Mobile Agent"
	<ul style="list-style-type: none"> Peng, Yun; Finin, Tim; Chen, Harry; Wang, Ling; Labrou, Yannis; Cost, R. Scott; Chu, Bill; Cross, Valerie; Russell, Mike; Tolone, Bill; Boughannam, Akram; McCobb, Jerry (U.S.A.): "An Agent System for Application Initialization in an Integrated Manufacturing Environment"
	<ul style="list-style-type: none"> Shen, Weiming (Canada): "Issues in Developing Agent-Based Collaborative Design and Manufacturing Systems"
	<ul style="list-style-type: none"> Wang, Lihui (Canada): "An Approach to Collaborative Design and Intelligent Manufacturing"
SUNDAY AUG. 1 4:00 pm- 6:00 pm	Image and Signal Processing III (Room No. 1)
	<ul style="list-style-type: none"> Kobayakawa, Michihiro; Hoshi, Mamoru; Ohmori, Tadashi (Japan): "Interactive Image Retrieval based on Wavelet Transform"
	<ul style="list-style-type: none"> Kose, Savas; Sisman, Cenker; Erdogan, Nadia (Istanbul, Turkey): "Parallel Hough Transform on DCOM Architecture"
	<ul style="list-style-type: none"> Larsson, Lars (Germany): "Learn Trajectories - A Systems Point of View Visualizing Method"
	<ul style="list-style-type: none"> Le, Daniel X.; Thoma, George R. (Moldova): "Automated Document Labeling Using Integrated Image and Neural Processing"
	<ul style="list-style-type: none"> Liu, Yongmei; Yamamura, Tsuyoshi; Ohnishi, Noboru; Sugie, Noboru (Japan): "Signboard Information Extraction and Reconstruction from a Grey Scene Image"
	<ul style="list-style-type: none"> Van Assche, Steven; Denecker, Koen; Philips, Wilfried; Lemahieu, Ignace (Belgium): "Lossless compression of color images using color decorrelation"

	<ul style="list-style-type: none"> Winger, Lowell (Canada): "The Tangent Distance for Texture Classification by Vector Quantization"
SUNDAY AUG. 1 4:00 pm – 6:00 pm	Neural Networks III (Room No. 2)
	<ul style="list-style-type: none"> Protopopescu, V.; Barhen, J.; Cogswell, R.(U.S.A.): "Single-Iteration Learning Algorithm for Feed-forward Neural Networks"
	<ul style="list-style-type: none"> Shiah, Chwan Y.; Tang, K. Wendy (U.S.A.): "Parallel Implementation of Artificial Neural Networks for the Diagnosis of Coronary Artery Disease"
	<ul style="list-style-type: none"> Szabo, Raisa (U.S.A.): "Dealing with Uncertainty: Rough Set Theory, LVQ Neural Network Paradigm, and Bayesian Approaches"
	<ul style="list-style-type: none"> Von Zuben, Fernando J.; Iyoda, M. Eduardo; De Andrade Netto, Márcio L. (Brazil): "Evolutionary and Constructive Approaches to Supervised Learning in Hybrid Neural Networks"
	<ul style="list-style-type: none"> Wang, Gi-Nam; Gwang-Sup, Kim (South Korea): "An On-Line Neuro-Forecasting Method with Corrective Model in The Ajou Neuro-Advanced Planning & Scheduling Project"
	<ul style="list-style-type: none"> Zárate, L. E.; Galvez, J. M.; Helman, H. (Brazil): "A Neural Network Based Thickness Control For Tandem Rolling Mill Systems"
SUNDAY AUG. 1 4:00 pm – 6:00 pm	Object Orientation III (Room No. 3)
	<ul style="list-style-type: none"> Losavio, F.; Matteo, A.; Metzner, C. (Venezuela): "Systematic Construction of Object-Oriented Interactive Systems: A Method & Tool"
	<ul style="list-style-type: none"> Messa, Kenneth; Czejdo, Bogdan (U.S.A.): "Data Classes and Interface Classes in an Integrated Object-Relationship Model"
	<ul style="list-style-type: none"> Montilva C., Jonás Arturo (Venezuela): "An Object Oriented Approach to Business Modeling in Information Systems Development"
	<ul style="list-style-type: none"> Santos, R.M. *; Fernandez, E.B. **; Santos, J. **; Zambon, M. ** (* Argentina, ** U.S.A.): "Object-Oriented Analysis of Real-Time Telemedical Systems"
	<ul style="list-style-type: none"> Yamani, Ahmed *; Al-Zobaidie, Ala (* Saudi Arabia, ** United Kingdom): "An Active Object-Oriented Approach for Human Information System Retrieval"
SUNDAY AUG. 1 4:00 pm – 6:00 pm	Special Methodologies for Specific Kinds of Applications III (Room No. 4)
	<ul style="list-style-type: none"> Maia Sampaio, Paulo Nazareno; Yumi Shiga, Claudia; Satoshi Kawamoto, André Luiz; Lopes de Souza, Wanderley (Brazil): "Automatic MHEG-5 Implementation of Multimedia Applications Specified in E-LOTOS"
	<ul style="list-style-type: none"> Okada, Yoshihiro; Tanaka, Yuzuru (Japan): "IntelligentBox: Its Aspect as an Interactive Animation System"
	<ul style="list-style-type: none"> Okuda, Takashi (Japan): " A Networked Dental Condition Prediction System with Artificial Neural Networks and Fuzzy Inference Systems"
	<ul style="list-style-type: none"> Wang, Fang; Devabhaktuni, Vijaya K.; Xi, Changgeng; Zhang, Q. J. (Canada): "Development of Microwave Neural Models Utilizing Engineering Knowledge"
	<ul style="list-style-type: none"> Wolf, Andreas (Germany): "Strategy Parallelism in Cooperative Theorem Provers"
SUNDAY AUG. 1 4:00 pm- 6:00 pm	Graphs, Algorithms and Language Processing III (Room No. 5)
	<ul style="list-style-type: none"> Petridis, V.; Kehagias, Ath. (Greece): "Data Classification for Unsupervised Learning of Multiple Models: Convergence Results"
	<ul style="list-style-type: none"> Sahinci, E.; Kamen, E.W. (U.S.A.): "Performance Analysis Tools for Fault Diagnostics Algorithms"
	<ul style="list-style-type: none"> Schmidt, Albrecht; Windhouwer, Menzo; Kersten, Martin (The Netherlands): "Feature Grammars"

	<ul style="list-style-type: none"> • Smierzchalski, Roman (Poland): "Static and Dynamic Constrains in Evolutionary Problem of Ship's Trajectory Planning at Sea"
	<ul style="list-style-type: none"> • Sobieski, Edward; Marin, John A.; Gini, Maria (U.S.A.): "Tracking Multiple Military Vehicles Moving Across Terrain"
	<ul style="list-style-type: none"> • Tsai, Chang-Hsiung; Chen, Y-Chuang; Tan, Jimmy J. m.; Hsu, Lih-Hsing (Taiwan, Republic of China): "Hamiltonian Decompositions of Recursive Circulant Graphs"
	<ul style="list-style-type: none"> • Van Gorp, Jurgen; Schoukens, Johan (Belgium): "A Scheme for Nonlinear Modeling"
SUNDAY AUG. 1 4:00 pm- 6:00 pm	Voice and Video Communication Systems I (Room No. 6)
	<ul style="list-style-type: none"> • Cruz-Perez, Felipe A.; Lara-Rodriguez, Domingo; Lara, Mauricio (Mexico): "Non Line-of-Sight Violation to the Reuse Pattern for Handoff Prioritization in Mobile Urban Microcellular Environments"
	<ul style="list-style-type: none"> • Cruz-Perez, Felipe A.; Lara-Rodriguez, Domingo; Lara-Barron, Mauricio (Mexico): "Urban Microcellular Systems with Multiple Reuse Patterns"
	<ul style="list-style-type: none"> • Cruz-Perez, Felipe A.; Lara-Rodriguez, Domingo; Lara-Barron, Mauricio (Mexico): "Erlang Capacity of CDMA in Urban Line-of-Sight Microcellular Systems"
	<ul style="list-style-type: none"> • Sanchez Lara, Rafael; Lara-Rodriguez, Domingo (Mexico): "Reuse of Cellular Frequency Channels for Unlicensed In-Building System"
	<ul style="list-style-type: none"> • Uc-Rios, Carlos E.; Lara-Rodriguez, Domingo (Mexico): "Forward Link Capacity Losses for Soft and Softer Handoff in Cellular System"
SUNDAY AUG. 1 4:00 pm- 6:00 pm	Transmission Systems III (Room No. 7)
	<ul style="list-style-type: none"> • Kang, Saehoon; Kim, Namhoon; Lee, Younghee; Park, Hyoungbae (Republic of Korea): "Active Core Based Tree Multicast"
	<ul style="list-style-type: none"> • Kim, Namhoon; Kang, Saehoon; Lee, Younghee (Republic of Korea): "Design of Reliable Multicast Flow Control in Heterogeneous Environments"
	<ul style="list-style-type: none"> • Lahtinen, Jussi; Myllymaki, Petri; Silander, Tomi; Tirri, Henry; Wettig, Hannes (Finland): "An Empirical Evaluation of Stochastic Search Methods in Real-World Telecommunication Domains"
	<ul style="list-style-type: none"> • Macdonald, Fraser; Miller, James; Ferguson, John D. (United Kingdom): "A Review of On-line Tools for Software Inspection"
	<ul style="list-style-type: none"> • Mahmud, Khaled; Mukumoto, Kaiji; Fukuda, Akira (Japan): "A Meteor Burst Communication System with Dynamic Channel Estimation and Variable Modulation Type"
	<ul style="list-style-type: none"> • Steuer, Jan; Jobmann, Klaus (Germany): "The SDL Based System Level Simulation Tool MOSIT for the Examination Of Advanced Handover and Channel Allocation Algorithms with Smart Antennas"
SUNDAY AUG. 1 4:00 pm- 6:00 pm	Training and Organizational Learning (Room No. 8)
	<ul style="list-style-type: none"> • Alexander, Gary C.; Enloe, Walter E. (U.S.A.): "Sustaining The Living Organization: An Open Systems Perspective"
	<ul style="list-style-type: none"> • Alonso-Betanzos, A. ; Sanchez Maroño, N. *; Santacruz Roldan, L. **; Voigt, M. ** (* Spain, ** Denmark): "A Multimedia Tutor System for Human Gait Analysis"
	<ul style="list-style-type: none"> • Alvarez de Toledo, Santiago; Barreiro, Jose Maria (Spain): "Generalized Reinforced Learning"
	<ul style="list-style-type: none"> • Cheung, Bruce; Hui, Lucas C.K. (Hong Kong): "Student Authentication for a Web-based Distance Learning System"
	<ul style="list-style-type: none"> • Danaher, Maurice (Australia): "An Assistant for Young Designers"

	<ul style="list-style-type: none"> • Kelley, Kathryn (U.S.A.): "Case Studies of Destabilization and Delusions Described as Radio-wave Transmitted: Behavioral Implications"
	<ul style="list-style-type: none"> • Santos, Rafael (Brazil): "A WWW Environment for Japanese Language Learning"
SUNDAY AUG. 1 4:00 pm- 6:00 pm	Natural Resources (Room No. 9)
	<ul style="list-style-type: none"> • Kihn, Eric; Lowe, Steven; Siquig, Richard; Zhizhin, Mikhail (U.S.A.): "The Environmental Scenario Generator"
	<ul style="list-style-type: none"> • Petrie, Gregg; Perry, Eileen (U.S.A.): "Large Area Change Detection Optimized with Spatial Attributes"
	<ul style="list-style-type: none"> • Soulie, Jean-Christophe; Marcenac, Pierre (France): "Modeling the Environment for MultiAgent Simulations"
SUNDAY AUG. 1 4:00 pm- 6:00 pm	Wireless and Mobile Computing II - Invited Session (Room No. 10)
	Organizer: Gopal Racherla (Canada)
	Chair: Gopal Racherla (Canada)
	Co-Chair: Sridhar Radhakrishnan (U.S.A.)
	<ul style="list-style-type: none"> • Negulescu, Andrei; Dini, Petre (Canada): "Multicast Messaging in Mobile Wireless Networks"
	<ul style="list-style-type: none"> • Racherla, Gopal; Radhakrishnan, Sridhar (U.S.A.): "Comparative Evaluation of Rerouting Strategies in Connection-Oriented Mobile Networks"
	<ul style="list-style-type: none"> • Racherla, Gopal; Radhakrishnan, Sridhar (U.S.A.): "Performance Evaluation of Mobile-Mobile Rerouting Schemes for Connection-Oriented Networks"
	<ul style="list-style-type: none"> • Sankar, Ravi; Azad, Sameer (U.S.A.): "Architectures and Mobility Management for Wireless ATM Networks"
	<ul style="list-style-type: none"> • Zheng, Haihong; Bhattacharya, Sourav (U.S.A.): "Look-ahead Channel Reservation and Borrowing in Cellular Networks Systems"
SUNDAY AUG. 1 4:00 pm- 6:00 pm	Neural Network Applied to Classification, Prediction and Automatic Control - Invited Session (Room No. 11)
	Organizer: Diego Andina de la Fuente
	Chair: Diego Andina de la Fuente
	Co-Chair: Jose L. Sancho-Gomez
	<ul style="list-style-type: none"> • Alarcon, Martin J.; Torres-Alegre, Santiago; Andina, Diego (Spain): "Behaviour of a Binary Detector Based on an ANN Digital Implementation in the Presence of SEU Simulations"
	<ul style="list-style-type: none"> • Godino-Llorente, Juan I.; Aguilera-Navarro, Santiago (Spain): "Comparison of Several Methods to Detect Impaired Voices"
	<ul style="list-style-type: none"> • Riaza, Ricardo; Zufria, Pedro J. (Spain): "Regularization of Differential-algebraic Equations and Recurrent Training of Neural Networks"
	<ul style="list-style-type: none"> • Sancho, Jose Luis; Figueiras-Vidal, A.R. (Spain): "Design of RBF Neural Networks using Critical Centroids"
	<ul style="list-style-type: none"> • Zufria, Pedro J.; Riaza, Ricardo (Spain): "A stochastic-approximation-based analysis of some dynamic neural networks learning schemes"
SUNDAY AUG. 1 4:00 pm- 6:00 pm	Information Systems in Higher Education – Invited Session (Room No. 12)
	Organizer: Marianella Aveledo (Venezuela)
	Chair: Marianella Aveledo (Venezuela)
	<ul style="list-style-type: none"> • Aveledo, Marianella; Lentini, Gladys (Venezuela): "Migration of the Genesis Systems"
	<ul style="list-style-type: none"> • Gutierrez de Mesa, Jose Antonio; Rodrigo Yanes, Juan Antonio; Hilera Gonzalez, Jose Ramon (Spain): "The Necessity of the Advanced Computer Center in the Computer Services of the University"

	<ul style="list-style-type: none"> Parra, Yomaira; Lentini, Gladys (Venezuela): "SAGDI Automated Institutional Document Generating System"
	<ul style="list-style-type: none"> Quintero Angarita, Jose Rafael (Venezuela): "Management Pointers of the Ezequiel Zamora Area Network Planification Systems"
	<ul style="list-style-type: none"> Sansonetti, Jesus E.; Contreras, Jose G. (Venezuela): "Development of on Information Systems for the Optimization of the Academical Offer, UNESR"
SUNDAY AUG. 1 4:00 pm – 6:00 pm	Tools and Methodologies for Product Modeling and Exchange II – Invited Session (Room No. 13) Organizer: Addelaziz Bouras (France) Chair: Addelaziz Bouras (France)
	<ul style="list-style-type: none"> Bardhan, Tridip K. (U.S.A.): "Sequencing the Dependent Attributes and Constraints in Feature-based Models and Design Advisory Systems"
	<ul style="list-style-type: none"> Pratt, Michael J. (U.S.A.): "Towards a Standardized CAD Modeler API"
	<ul style="list-style-type: none"> Roux, Jean-Christophe; Roze, Alain (France): "Delaunay Meshing Applications"
	<ul style="list-style-type: none"> Sadou, Salah; Koscielny, Gautier (France): "Definition of the Co-operation between Objects"
MONDAY AUGUST 2, 1999	
7:45 am – 9:30 am	Plenary Session
9:30 am – 12:00 m	Image and Signal Processing IV (Room No. 1)
	<ul style="list-style-type: none"> Mangu, Lidia; Brill, Eric (U.S.A.): "Lattice Compression in the Consensual Post-Processing Framework"
	<ul style="list-style-type: none"> Manian, Vidya; Vasquez, Ramon (Puerto Rico): "Image classification using semivariogram method"
	<ul style="list-style-type: none"> Oka, Souichi; Haung, William; Takefuji, Yoshiyasu; Murai, Kenta (Japan): "A RGB Representation of Features in Hyperspectral Images by Self-Organization Topological Map"
	<ul style="list-style-type: none"> Feitosa, Raul Queiroz; Thomaz, Carlos Eduardo; Veiga, Alvaro (Brazil): "Comparing the Performance of the Discriminant Analysis and RBF Neural Network for Face Recognition"
	<ul style="list-style-type: none"> Raafat, Hazem; Tolba, Ahmad; Al-Mayyan, Waheeda (Kuwait): "A Glove-Based System for Automatic Signature Identification Using Neural Networks"
	<ul style="list-style-type: none"> Rakotomamonjy, Alain; Deforge, Philippe; Marché, Pierre (France): "Mixture of textures: How do the texture features derived from the co-occurrence matrix vary?"
	<ul style="list-style-type: none"> Ribaric, Slobodan; Perkovic, Zeljka; Pavesic, Nikola (Croatia): "Edge Detection by Using Focus of Attention Areas"
	<ul style="list-style-type: none"> Setarehdan, S. Kamaledin; Soraghan, John J. (United Kingdom): "Fuzzy Multiresolution Signal Processing (FMSP)"
MONDAY AUG. 2 9:30 am – 12:00 m	Cooperative Multi-agent Systems and Collective Intelligence I (Room No. 2)
	<ul style="list-style-type: none"> Aknine, Samir (France): "On Multi-agent Cooperative Control of Conflict Workflow Tasks"
	<ul style="list-style-type: none"> Ambroszkiewicz, Stanislaw; Cetnarowicz, Krzysztof; Penczek, Wojciech (Poland): "Towards Flexible Architecture of Operational Agent: common language and ontology"
	<ul style="list-style-type: none"> Beslon, G.; Favrel, J. (France): "Genetically Determined Conveying Agents in a Flexible Material Handling System"
	<ul style="list-style-type: none"> Bournez, Carine; Beslon, Guillaume; Favrel, Joel (France): "A Multi-Agent Market-Driven Contract Net for Emergent Manufacturing Control"

	<ul style="list-style-type: none"> • Cetnarowicz, Krzysztof; Zabinska, Malgorzata; Nawarecki, Edward (Poland): "Technology of M-agents"
	<ul style="list-style-type: none"> • Chantemargue, F.; Lerena, P.; Courant, M. (Switzerland): "Autonomy-based Multi-Agent Systems: Statistical Issues"
	<ul style="list-style-type: none"> • Chen, Wen-Shyen E.; Lin, Ching-Yu; Lien, Yao-Nan (Taiwan, Republic of China): "Pathfinder: A Mobile Agent Infrastructure with Mobility and Management Support"
	<ul style="list-style-type: none"> • Eltoweissy, Mohamed Y. (U.S.A.): "On QoS Management in CSCW Environments"
MONDAY AUG. 2 9:30 am – 12:00 m	User Interface Design (Room No. 3)
	<ul style="list-style-type: none"> • Barreiro, Jose Maria; Frutos, Sonia; Martínez, Loic Antonio; Varela, Juan Ignacio (Spain): "Component Framework for Blind User Interfacing"
	<ul style="list-style-type: none"> • David, Amos; Bueno, David (France): "Towards Cooperative Information Retrieval System with User Modeling"
	<ul style="list-style-type: none"> • Desprez, Frederic; Fleury, Eric; Grigori, Laura (France): "SCILAB//: User Interactive Application and High Performances"
	<ul style="list-style-type: none"> • Dohi, Hiroshi; Ishizuka, Mitsuru (Japan): "Visual Software Agent Interface with a User-tracking Flat Panel Display for Continuous Eye-Contact"
	<ul style="list-style-type: none"> • Gavrilova, Tatjana; Voinov, Alexander; Vasilyeva, Ekaterina (Russia): "Human Factor Research: Psychological Bias to User Modeling"
	<ul style="list-style-type: none"> • Iga, Soichiro (Japan): "Approximate Interaction: User Interface for the Ambiguous World"
	<ul style="list-style-type: none"> • Roussey, Catherine; Calabretto, Sylvie; Pinon, Jean-Marie (France): "Semantic Indexing of Multilingual Document for Information Retrieval"
	<ul style="list-style-type: none"> • Treu, Siegfried (U.S.A.): "Need for Comprehensive, Systematic Methodology for the Design and Evaluation of Human-Computer Interfaces"
MONDAY AUG. 2 9:30 am – 12:00 m	Computing Techniques I (Room No. 4)
	<ul style="list-style-type: none"> • Ahsan, Ahmed; Volz, Richard A. (U.S.A.): "Design and Implementation of a Java Desktop"
	<ul style="list-style-type: none"> • Akama, Kiyoshi; Koike, Hidekatsu; Miyamoto, Eiichi (Japan): "Program Synthesis from a Set of Definite Clauses and a Query"
	<ul style="list-style-type: none"> • Akama, Kiyoshi; Shigeta, Yoshinori; Miyamoto, Eiichi (Japan): "Logical Formalization of Problems Using Declarative Programs"
	<ul style="list-style-type: none"> • Appelt, Wolfgang; Kloeckner, Konrad (Germany): "Flexible Workgroup Cooperation based on Shared Workspaces"
	<ul style="list-style-type: none"> • Axelsson, Jakob (Sweden): "Towards System-Level Analysis and Synthesis of Distributed Real-Time Systems"
	<ul style="list-style-type: none"> • Ben Yahia, Sadok *; Arour, Khedija *; Jaoua, Ali ** (* Tunisia, ** Saudi Arabia): "A Rectangular Process to discover compact rules in databases"
	<ul style="list-style-type: none"> • Cabrero-Canosa, M.; Castro-Pereiro, M.; Graña-Ramos, M.; Hernandez-Pereira, E.; Moret Bonillo, V.; Martin-Egaña, M.; Vereá-Hernando, H. (Spain): "A New Perspective for Sleep Apneas Monitoring"
	<ul style="list-style-type: none"> • Foong Law, David Yuh (Singapore): "Interactive Data Mining for Natural Product Drug Discovery"
MONDAY AUG. 2 9:30 am – 12:00 m	Information Technologies Applied to New Organizational Methods I (Room No. 5)
	<ul style="list-style-type: none"> • Boekhoff, Hanno (Germany): "The Delta Model: A Framework for the Effective Implementation of Information Technology to enable Organizational Change"
	<ul style="list-style-type: none"> • Botelho, Luis M.; Lopez, Rui J.; Sequeira, Manuel M.; Almeida, Paulo F.; Martins, Sergio (Portugal): "Inter-agent communication in a FIPA Compliant Intelligent Distributed Dynamic-Information System"

	<ul style="list-style-type: none"> • Callaos, Nagib; Callaos, Bekis Sanchez de; Torres, Michel (Venezuela): "A Generalized GDSS for Group Problem Solving"
	<ul style="list-style-type: none"> • Lee, Seok-Ho; Kim, TaeWan; Woo, WangDon; Lee, SungWook; Lee, JungTae (Republic of Korea): "TMN Management Information Handling Architecture – in Object-based Integrated Network Management Environment"
	<ul style="list-style-type: none"> • Orth, Wolfgang (Germany): "A Framework for Configuration of Telecooperation Systems"
	<ul style="list-style-type: none"> • Wadaa, Ashraf; Shen, Stewart; Eltoweissy, Mohamed; Mata-Toledo, Ramon (U.S.A): "A New Approach To Interoperability Management in Large Scale Distributed Object Environments"
MONDAY AUG. 2 9:30 am – 12:00 m	Management Support Systems I (Room No. 6)
	<ul style="list-style-type: none"> • Cobb, Maria A.; Chung, Miyi; Wilson, Ruth; Shaw, Kevin; Petry, Frederick E. (U.S.A.): "Spatial Data Mining Fuzzy Logic in an Object-Oriented Geographical Information Database"
	<ul style="list-style-type: none"> • Coutinho, Murilo; Neches, Robert; Bugacov, Alejandro; Kumar, Vished; Yao, Ke-Thia; Ko, In-Young; Eleish, Ragy; Abhinkar, Sameer (U.S.A.): "GeoWorlds: A Geographically-Based Situation Understanding and Information Management System for Disaster Relief Operations"
	<ul style="list-style-type: none"> • Long, Allen; Pavlova, Olga (United Kingdom): "A UK Corporate Bond Rating Classification Using Probabilist Neural Networks"
	<ul style="list-style-type: none"> • Melo, Paulo; Costa, Joao Paulo (Portugal): "Some Design Options for Persistent Distributed Information within Group Decision Support Systems"
	<ul style="list-style-type: none"> • Orlandic, Ratko (U.S.A.): "Methodical Design of Mismatch-Free Architectures for Information Management"
MONDAY AUG. 2 9:30 am – 12:00 m	Business Process Modeling (Room No. 7)
	<ul style="list-style-type: none"> • Hsu, Fand-Rong; Chen, Yu-Cheng; Wang, Li-Hui (Taiwan, Republic of China): "A Study of the Information Technology Lag Problem in the Internal Auditing Departments of High Technology Industries in Taiwan"
	<ul style="list-style-type: none"> • Husein, Tazmmal *; Moreton, Robert *; Sloane, Andrew *; Knoll, Heinz- Dieter ** (* United Kingdom, ** Germany): "An evaluation of BPR Methodologies adopting NIMSAD: A Systematic Framework for Understanding and Evaluating Methodologies"
	<ul style="list-style-type: none"> • Loutfi, M.; Moscardini, A.; Lawler, K.; Tentieva, G. (United Kingdom): "System Dynamics Behaviour Interpretation of Macroeconomic Models"
	<ul style="list-style-type: none"> • Mashaw, Bijan (U.S.A.): "The Applications of the Internet in Business, What is Next?"
	<ul style="list-style-type: none"> • Niño, Fernando *; Hernandez, German *; Botelho, Fernanda ** (* Colombia, ** U.S.A.): "Associate Storage of Information Using n-Dimensional Dynamical Systems"
	<ul style="list-style-type: none"> • Rychly, Pavel; Smrz, Pavel; Filipensky, Pavel (Czech Republic): "Document Multiplicity Elimination and Corpora Management"
	<ul style="list-style-type: none"> • Sellink, Alex; Verhoef, Chris (The Netherlands): "Towards Automated Modification of Legacy Assets"
	<ul style="list-style-type: none"> • Shurety, Samantha (Canada): "Developing Flexible and Comprehensive Online Information Systems in Dynamic Environments"
MONDAY AUG. 2 9:30 am – 12:00 m	1st Symposium on Reusable Architectures and Components for Developing Distributed Information Systems I – Focus Symposium (Room No. 8)
	Organizer: Nader Nada
	Chair: Nader Nada
	<ul style="list-style-type: none"> • Al-Haddad, Hisham; Tesser, Herbert (U.S.A.): "Domain Reuse: A Paradigm for Software Reuse"
	<ul style="list-style-type: none"> • Belletini, C. *; Damiani, E. **; Fugini, M.G. ** (* Switzerland, ** Italy): "Design of an XML-based Trader for Dynamic Identification of Distributed Services"
	<ul style="list-style-type: none"> • Bergner, Klaus; Rausch, Andreas; Sihling, Marc; Vilsmeier, Christoph (Germany): "CORBA and the Java Card - Connecting Small Devices to a Standard Event Service"

	<ul style="list-style-type: none"> • Boyce, Leslye; Meyers, Gary; Rigsbee, Emmett; Branch, William; Shaw, Jeffrey; Poole, David (U.S.A.): "Plug and Play Integration Through Space Object Standardization"
	<ul style="list-style-type: none"> • Braun, Christine (U.S.A.): "Building and Supporting Marketable COTS Software-Some Guidelines for Vendors"
	<ul style="list-style-type: none"> • Capilla, Rafael (Spain): "Questions about Domain Analysis in Product-Lines Architectural Approaches"
MONDAY AUG. 2 9:30 am – 12:00 m	Control Systems I (Room No. 9)
	<ul style="list-style-type: none"> • Aziz, Souhli; Hayat, Said; Hammadi, Slim; Borne, Pierre (France): "Scheduling and aid Decision-Making in The Traffic Exploitation of the Urban Bus Networks"
	<ul style="list-style-type: none"> • Berns, K.; Ilg, W.; Kepplin, V.; Scholl, K.U.; Deck, M. (Germany): "Biologically Inspired Walking Machines"
	<ul style="list-style-type: none"> • Cai, Hongzhi; Qu, Zhihua; Gan, Deqiang (U.S.A.): "Determination of Power Transfer Capacity of UPFC with Consideration of System and Equipment Constraints and Installation Locations"
	<ul style="list-style-type: none"> • Calderoni, Stephane (France): "Generic Control System in MultiAgent Domain"
	<ul style="list-style-type: none"> • Chriette, Abdelhamid; Mammar, Said; Hamel, Tarek (France): "Combined Vehicle Lateral and Longitudinal Control"
	<ul style="list-style-type: none"> • Cistelecan, Mihaela R. (Romania): "A Computer Aided Design Tool for Control Design, in the Framework of Machine Learning"
	<ul style="list-style-type: none"> • Cohen, Charles J.; Beach, Glenn; Cavell, Brook; Foulk, Gene; Obermark, Jay; Paul, George (U.S.A.): "The Control of Self Service Machines using Gesture Recognition"
	<ul style="list-style-type: none"> • Dambrosio, L.; Fortunato, B.; Camporeale, S.M. (Italy): "One Step Ahead Adaptive Control with modification for application to Aero-derivative Gas Turbine"
MONDAY AUG. 2 9:30 am – 12:00 m	Intelligent Data Mining and Knowledge Discovery – Invited Session (Room No. 10) Organizer: Yanqing Zhang Chair: Yanqing Zhang
	<ul style="list-style-type: none"> • Burl, Michael C.; Fowlkes, Charles; Roden, Joseph (U.S.A.): "Mining for Image Content"
	<ul style="list-style-type: none"> • Fu, Yongjian; Sandhu, Kanwalpreet; Shih, Ming-Yi (U.S.A.): "Fast Clustering of Web Users Based on Browsing Patterns"
	<ul style="list-style-type: none"> • Lin, T.Y. (U.S.A.): "Discovering Patterns in Numerical Sequences Using Rough Set Theory"
	<ul style="list-style-type: none"> • Yao, Y.Y. *: Zhong, Ning ** (* Canada, ** Japan): "Potential Applications of Granular Computing in Knowledge Discovery and Data Mining"
	<ul style="list-style-type: none"> • Zhang, Yanqing; Fraser, Martin D.; Gagliano, Ross A.; Kandel, Abraham (U.S.A.): "Granular Neuro-fuzzy Knowledge Compression and Expansion"
MONDAY AUG. 2 9:30 am – 12:00 m	Tools and Methodologies for Product Modeling and Exchange II – Invited Session (Room No. 11) Organizer: Addelaziz Bouras (France) Chair: Addelaziz Bouras (France)
	<ul style="list-style-type: none"> • Bouras, Abdelaziz; Brun, Jean-Marc (France): "CAD Models Conversion and Correction"
	<ul style="list-style-type: none"> • Brun, Jean Marc (France): "Tolerant Modeling and Topologic Consistency in CAD/CAM Data Exchanges"
	<ul style="list-style-type: none"> • Cugini, U.; Ruozi, D. (Italy): "A Methodology to Evaluate BPR Strategy in a Product Development Process"
	<ul style="list-style-type: none"> • Fofou, Sebti (France): "Surface Classification for Boolean Operations on Solids"
	<ul style="list-style-type: none"> • Ohtaka, Akihiko (Japan): "Parametrics: Present and Future"
MONDAY AUG. 2	Practical Application of Agents and Multi-Agent Systems I - Invited Session (Room No. 12)

9:30 am – 12:00 m	<p>Organizer: Juan Corchado</p> <p>Chair: Juan Corchado</p> <ul style="list-style-type: none"> • Acebal, Cesar F.; Perez Diaz, Jesus Arturo; Cueva Lovelle, Juan Manuel (Spain): "Remote Database Querying using Mobile Agents" • Afleck, Glenn; Smith, Trixi B. (United Kingdom): "The Need for a Pedagogical Agent" • Cabarcos, Manuel; Gomez, Alma (Spain): "Agent Programming in Generalized Magnitudes" • Cordero, Juan M.; Toro, Miguel (Spain): "A Components Model based on Interaction-Nets" • Diaz, F.; Borrajo, L.; Riverola, F. Fdez.; Usero, A.; Corchado, J.M. (Spain): "Negative Feedback Network for Financial Prediction" • Gonzalez, E.; Carrion, P.; Laza, R.; Corchado, J.M. (Spain): "Multi-Agent Advisory System" • Nunes de Castro, Leandro; Von Zuben, Fernando Jose (Brazil): "Neural Networks with Adaptive Activation Functions: A Second-Order Approach"
MONDAY AUG. 2 9:30 am – 12:00 m	<p>Reliable and Fault Tolerant Information Systems – Invited Session (Room No. 13)</p> <p>Organizer: Adel Cherif</p> <p>Chair: Adel Cherif</p> <ul style="list-style-type: none"> • Aoki, Toshiaki; Hanada, Masaki; Katayama, Takuya (Japan): "How to Support Verification of Object-Oriented Analysis Model Using HOL" • Casazza, Antonio; Comini, Dario; Morzenti, Angelo; Pradella, Matteo; San Pietro, Pierluigi; Schreiber, Fabio (Italy): "Specification and Test Case Generation for the Safety Kernel of the Naples Subway" • Elnozahy, E.N. Mootaz (U.S.A.): "A Low Latency Multicast Protocol" • Imaizumi, Takashi; Horikawa, Shigeru (Japan): "Using an Access-List Compilation System to Make Network Reliable" • Itou, Kei (Japan): "A Characterization of Inter-Object Behavior for High Reliability Systems" • Kanoun, Karama (France): "Software Failure Data Analysis for Reliability Improvement" • Kone, Mamadou Tadiou; Nakajima, Tatsuo (Japan): "Mobile Agents and Quality of Service Adaptation in Distributed Multimedia Systems"
MONDAY AUG. 2 1:30 pm – 3:30 pm	<p>Image and Signal Processing V (Room No. 1)</p> <ul style="list-style-type: none"> • Robel, Axel (Germany): "Minimum Entropy Blind Signal Deconvolution with Non Minimum Phase FIR Filters" • Rossetto, S.; Benevides, R. M.; Ferreira, A.P.; Rauber, T. W. (Brazil): "Adaptation Of A Form Recognition System" • Santos, Rafael (Brazil): "Selective color mixture estimation for image matching" • Setarehdan, S. Kamaledin; Soraghan, John J. (United Kingdom): "Fuzzy Multiresolution Signal Processing (FMSP)" • Skarbek, Wladyslaw; Ignasiak, Krystian (Poland): "Using Rough Sets to Add Confidence Levels for Local Subspace Classifier" • Skarbek, Wladyslaw; Pietrowcew, Adam; Sokolowski, Pawel (Poland): "Modified Oja-RLS Neural Scheme for Restricted Singular Value Decomposition of 2D Patterns" • Skarbek, Wladyslaw; Krupiczka, Andrzej; Pietrzyk, Marek (Poland): "Using Self Organized Maps for Intelligent Interfacing to Large DataBases"
MONDAY AUG. 2 1:30 pm – 3:30 pm	<p>Cooperative Multi-agent Systems and Collective Intelligence II (Room No. 2)</p>

	<ul style="list-style-type: none"> Husein, Tazmmal *; Moreton, Robert *; Sloane, Andrew *; Knöll, Heinz-Dieter ** (* United Kingdom, ** Germany): "A Matrix of Evaluation and Comparison of Case-Based Reasoning (CBR) Software Tools to Facilitate Understanding and Appreciation"
	<ul style="list-style-type: none"> Iwamura, Takuya; Iba, Takashi; Takefuji, Yoshiyasu (Japan): "Emergence of Cooperative Behavior by Simple Reactive Agents"
	<ul style="list-style-type: none"> Jacak, Witold; Proll, Karin (Austria): "Multiagent based Intelligent Control and Internal Communication in an Autonomous System"
	<ul style="list-style-type: none"> Kawakami, Ken-Ichiroh; Ohkura, Kazuhiro; Ueda, Kanji; (Japan): "A Homogeneous Robot Group Approach to Cooperative Carrying Problems"
	<ul style="list-style-type: none"> Lee, Chungnan; Chiang, Chuanwen; Horng, Minghong (Taiwan, Republic of China): "An Adaptive Load Distributing Algorithm for Collaborative Web Computing"
	<ul style="list-style-type: none"> Lee, Jung-Jin; McCartney, Robert (U.S.A.): "Building User Models for Predictive Agents from Human-Computer Interactions"
	<ul style="list-style-type: none"> Li, Yuefeng; Zhang, Chengqi (Australia): "Information Fusion and Decision Making for Utility-based Agents"
MONDAY AUG. 2 1:30 pm – 3:30 pm	Requirements Engineering (Room No. 3)
	<ul style="list-style-type: none"> Acosta, Alecia Eleonora; Matos, Rafael; Zambrano, Nancy (Venezuela): "Prototypes Generator: its User Interface and its Development Method"
	<ul style="list-style-type: none"> Alonso Amo, F.; Barreiro, J.M.; Fuertes, J. L. ; Martínez, L.; Montes, C. (Spain): "An Incremental Prototyping Approach to Software Development in Knowledge Engineering"
	<ul style="list-style-type: none"> Fertalj, Kresimir; Kalpic, Damir; Mornar, Vedran (Croatia): "A Software Development Method Based on Iterative Prototyping"
	<ul style="list-style-type: none"> Homod, Sami M.; Rine, David C. (U.S.A.): "Building Requirements Repository Using Requirements Transformation Techniques to Support Requirements Reuse"
	<ul style="list-style-type: none"> Li, Sheng Feng; Stafford-Fraser, Quentin; Hopper, Andy (United Kingdom): "Frame-buffer on Demand: Applications of Stateless Client Systems in Web-based Learning"
	<ul style="list-style-type: none"> Li, Xiang; Chi, Chi-Hung; Deng, Jing; Dong, Chun-Lei (Singapore): "Layered Model for Web Multimedia Data and its Implications to Bandwidth Load-Balancing"
	<ul style="list-style-type: none"> Lowe, Michael (Germany): "Evolution Patterns- a Graphical Framework for Software Redesign"
	<ul style="list-style-type: none"> Kim, Gwang-Moon; Park, Seung-Ho; Kim, Young-Ju; Chung, Ki-Dong (Republic of Korea): "Mixed-Media Data Placement Policy in Heterogeneous Disk Arrays"
MONDAY AUG. 2 1:30 pm – 3:30 pm	Computing Techniques II (Room No. 4)
	<ul style="list-style-type: none"> Correa G., Eliezer; Lista S., Jose (Venezuela): "A High Performance Requirement Application And Its Evaluation On Distributed And Parallel Platforms"
	<ul style="list-style-type: none"> Davis, Kei; Quinlan, Dan (U.S.A.): "ROSE II: An Optimizing Code Transformer for C++ Object-Oriented Array Class Libraries"
	<ul style="list-style-type: none"> de Tremiolles, Ghislain; Tannhof, Pascal; Louis, Didier (France): "Use Of IBM Zisc036 for Data Processing: Parallel Search of Keywords in Databases"
	<ul style="list-style-type: none"> Di Natale, M.; Domenici, A.; Ancillotti, P. (Italy): "The DASE Design Environment for Distributed Real-Time Analysis"
	<ul style="list-style-type: none"> Lee, Homin; Kim, Dongseung (Republic of Korea): "Execution-time modeling of parallel programs with message-passing communication"
	<ul style="list-style-type: none"> Ekdahl, Bertil; Davidsson, Paul (Sweden): "A workable definition of computerized agents"
	<ul style="list-style-type: none"> Fong, Joseph; Pang, Francis (Hong Kong): "Schema Evolution for New Database Applications: A Frame Model Approach"
MONDAY AUG. 2 1:30 pm – 3:30 pm	Information Technologies Applied to New Organizational Methods II (Room No. 5)

	<ul style="list-style-type: none"> Garcia, Francilene Procópio *; Lei, Zhang **; Ren, Shouju **; Moura, J. Antao B. * (* Brazil, ** China): "Multi-Object Analysis based DSS for Software Production Facing the Global Market: A System View"
	<ul style="list-style-type: none"> Ramos, Pedro (Portugal): "Organisation Analysis and Design - A Modal Logic Framework"
	<ul style="list-style-type: none"> Sompradeekul, Sumet; Esichaikul, Vatcharaporn (Thailand): "Obstacles of Successful Electronic Commerce Applications: The Users' Perspective"
	<ul style="list-style-type: none"> Song, Ki-Uk; Park, Seung-Ho; Kim, Young-Ju; Chung, Ki-Dong (Republic of Korea): "Admission Control Policy in Scalable Clustered Multimedia Storage Server"
	<ul style="list-style-type: none"> Sum, John; Yeung, Johnny; Young, Gilbert H. (Hong Kong): "An Intranet based Information System Supporting the Just-In-Time Minus Customer Services"
MONDAY AUG. 2 1:30 pm – 3:30 pm	Management Support Systems II (Room No. 6)
	<ul style="list-style-type: none"> Asumu, Don; Mellis, John (United Kingdom): "Automated Planning of Telecommunication Networks"
	<ul style="list-style-type: none"> Basoglu, A. Nuri; Oner, M. Atilla (Turkey): "Modelling Research Idea on Web Using MORN Platform"
	<ul style="list-style-type: none"> Callaos, Nagib *; Callaos, Bekis Sanchez de *; Lesso, William ** (* Venezuela, ** U.S.A.): "A Socio-Political Information System for a New Constitution"
	<ul style="list-style-type: none"> Chan, Keith C.C.; Chung, Lawrance M.L. (Hong Kong): "Knowledge Management in an Enterprise-wide Information System"
	<ul style="list-style-type: none"> Costa, Joao Paulo; Melo, Paulo; Godinho, Pedro; Dias, Luis (Portugal): "Evaluating Investment Projects with a Group Decision Support System"
	<ul style="list-style-type: none"> Faustmann, Gert (Germany): "Flexible Workflow Enforcement with Global Method Constraints"
MONDAY AUG. 2 1:30 pm – 3:30 pm.	Voice and Video Communication Systems II (Room No. 7)
	<ul style="list-style-type: none"> Castañeda-Camacho, Josefina; Lara-Rodriguez, Domingo (Mexico): "Frequency Reuse In Cdma Cellular Systems"
	<ul style="list-style-type: none"> Czyzewski, Andrzej; Krolikowski, R.; Kostek, B.; Zielinski, S. (Poland): "Intelligent Echo and Noise Reduction System"
	<ul style="list-style-type: none"> Scholten, Johan (The Netherlands): "Voice over TV Network Systems"
	<ul style="list-style-type: none"> Wan, Chunru; Liu, Jianfeng; Zhang, Chunrui (Singapore): "Performance of beamformer techniques in cellular communication systems"
	<ul style="list-style-type: none"> Wang, Guijun: "Abstractions in Component Compositions and Visual Component Assembly for Distributed Applications"
	<ul style="list-style-type: none"> Zhang, Tingting; Xu, Youshi (Sweden): "General modelling of layered packet video for multicast systems"
MONDAY AUG. 2 1:30 pm – 3:30 pm	1st Symposium on Reusable Architectures and Components for Developing Distributed Information Systems II – Focus Symposium (Room No. 8)
	Organizer: Nader Nada
	Chair: Nader Nada
	<ul style="list-style-type: none"> Cheung, R. C.T. (Hong Kong): "It Proficiency Courseware Based on a Dynamic Reusable Component Architecture"
	<ul style="list-style-type: none"> Diaz-Herrera, Jorge L.; Thomas, Barbara Bernal (U.S.A.): "Model-Based Systematic Reuse: an Analysis of OOT Support"

	<ul style="list-style-type: none"> Fuhrman, Christopher P.; Solderitsch, Nancy; Yacoub, Sherif; Ammar, Hany (U.S.A.): "An Integrated Tool Environment for DoD Product Line Engineering"
	<ul style="list-style-type: none"> Garcia Guzman, Javier; De Amescua Seco, Antonio; Rimawi, Yaser; Calvo-Manzano Villalon, Jose Antonio; Gilabert, Tomas San Feliu (Spain): "FARO: An Architecture for Reusing Software Process Models"
	<ul style="list-style-type: none"> Hall, Laverne; Hung, Chaw-Kwei (U.S.A.): "NASA JPL Distributed Systems Technology (DST) Object-Oriented Component Approach for Software Inter-Operability and Reuse"
	<ul style="list-style-type: none"> Pang, Leslie (U.S.A.): "The Application of Collaborative Simulation In Component-Based Technology Education"
MONDAY AUG. 2 1:30 pm – 3:30 pm	Control Systems II (Room No. 9)
	<ul style="list-style-type: none"> Araujo Filho, Jose Ernesto De; Macau, Elbert E. N. (Brazil): "Thermal Vacuum System Controlled by Fuzzy Reasoning"
	<ul style="list-style-type: none"> Ferworn, Alexander; Plataniotis, Kostas (Canada): "Solenodon: Unstable Hexapod Walking"
	<ul style="list-style-type: none"> Gan, Deqiang; Qu, Zhihua; Cai, Hongzhi (U.S.A.): "Application of FBLC and Nonlinear Robust Control to Power System Control Design"
	<ul style="list-style-type: none"> Harris, Chris. J.; Gan, Qiang (United Kingdom): "Local Linearisation Using Fuzzy (Soft) Input Space Partition for Nonlinear System Modelling"
	<ul style="list-style-type: none"> Gonzalez, Fernando G.; Davis, Wayne J. (U.S.A.): "An Intelligent Control Architecture Distributed Across The Network, for the Control of Large-Scale Discrete-Event System"
	<ul style="list-style-type: none"> Goossens, Joel; Macq, Christophe (Belgium): "Performance analysis of various scheduling algorithms for real-time systems composed of aperiodic and periodic tasks"
MONDAY AUG. 2 1:30 pm – 3:30 pm	Process Technology I - Invited Session (Room No. 10)
	Organizer: Pierre Fernand Tiako
	Chair: Pierre Fernand Tiako
	<ul style="list-style-type: none"> Ajila, Samuel (South Africa): "Dealing with Impact Analysis of Object Change in a Distributed Team-Based Software Development: Basic Concepts and Perspectives"
	<ul style="list-style-type: none"> Algeri, Soliman M.; Finch, Ian (United Kingdom): "Adaption of High Level Models for Reuse"
	<ul style="list-style-type: none"> Alloui, Ilham; Oquendo, Flavio (France): "Decentralised Software Processes: Modelling and Supporting Interactions among 'Processlets'"
	<ul style="list-style-type: none"> Cordero, Juan M.; Toro, Miguel (Spain): "A Components Model Based on Interaction-Nets"
	<ul style="list-style-type: none"> Divitini, Monica; Farshchian, Babak A. (Norway): "Collaboration and Coordination through Basic Internet Tools: A Case Study"
MONDAY AUG. 2 1:30 pm – 3:30 pm	Humanoid Robots – Invited Session (Room No. 11)
	Organizer: Karsten Berns (Germany)
	Chair: Karsten Berns (Germany)
	<ul style="list-style-type: none"> Berns, Karsten; Asfour, Tamim (Germany): "A Humanoid Robot for Service Applications"
	<ul style="list-style-type: none"> Fischer, Thomas; Woern, Heinz (Germany): "Multifinger grippers for human-like robots in industry"
	<ul style="list-style-type: none"> Matsusaka, Yosuke; Kubota, Sentaro; Tojo, Tsuyoshi; Furukawa, Kenji; Kobayashi, Tetsunori (Japan): "Multi-person Conversation Robot using Multi-modal Interface"
	<ul style="list-style-type: none"> Ohashi, Takeshi; Hashimoto, Shuji (Japan): "Active Vision System to Understand Environment for Humanoid Robot"

MONDAY AUG. 2 1:30 pm – 3:30 pm	Practical Application of Agents and Multi-Agent Systems II - Invited Session (Room No. 12) Organizer: Juan Corchado Chair: Juan Corchado
	<ul style="list-style-type: none"> Ivezic, Nenad; Potok, Thomas E. (U.S.A.): "A Multi-Agent Approach for Supply Chain Management"
	<ul style="list-style-type: none"> Potok, Thomas E.; Ivezic, Nenad (U.S.A.): "A Multi-Agent Spare Part Grouping Systems for Logistics Optimization"
	<ul style="list-style-type: none"> Riaño, David; Sanchez-Marre, Miguel; R.-Roda, Ignasi (Spain): "A Wastewater Treatment Plant Multiagent System"
	<ul style="list-style-type: none"> Santos, J.; Duro, R.J. (Spain): "DTB for the Prediction of Sunspot Activity"
	<ul style="list-style-type: none"> Smith, Trixi B.; Affleck, Glenn (United Kingdom): "A Web-Based Learning Assistant Agent"
	<ul style="list-style-type: none"> Soler, Jose; Carrascosa, Carlos; Julian, Vicente (Spain): "Developing a Multi-Agent System for the World Wide Web"
	<ul style="list-style-type: none"> Vivaracho, Carlos E.; Moro, Quiliano I.; Romero, Luis A. (Spain): "Using Constructive Learning in Speaker Verification. A Comparison with Multilayer Perceptron"
MONDAY AUG. 2 1:30 pm – 3:30 pm	Higher Education Evaluation: Support Systems, Models, Case Studies – Invited Session (Room No. 13) Organizer: Eucaris Wills Chair: Eucaris Wills Co-Chair: Cristina Gonzalez
	<ul style="list-style-type: none"> Barboza, Lilian (Venezuela): "The Process of Theaching - Service of the Odontology Faculty of the Universidad Central de Venezuela, from the Experience of Catia la Mar, Vargas State. Evaluation of the Experience between 1995-1998. Development Study"
	<ul style="list-style-type: none"> Mateo, Joan; Chaves, Meritxell; Guardia, Joan; Martinell, Jordi (Spain): "Institutional Evaluation in Europe, a Case Study: The University of Barcelona"
	<ul style="list-style-type: none"> Montiel, Deliamar (Venezuela): "Evaluation of the Postgraduate Course on "Expansion in the Administration of Odontological Services". Odontology Faculty, Universidad Central De Venezuela"
	<ul style="list-style-type: none"> Testa, Pablo (Venezuela): "Indicators of Scientific Production and Research Evaluation in the Higher Education Institutions of Venezuela"
	<ul style="list-style-type: none"> Villalobos, Martin; Wills, Eucaris; Gonzalez, Cristina (Venezuela): "Self-Evaluation of Research and Organisational Culture in the Universidad Central de Venezuela: The Case of Institute of Edaphology"
	<ul style="list-style-type: none"> Wills, Eucaris; Gonzalez, Cristina; Villalobos, Martin (Venezuela): "Self-Evaluation in the Institute of Edaphology: An Organisational Learning Experience"
MONDAY AUG. 2 4:00 pm – 6:00 pm	Image and Signal Processing VI (Room No. 1)
	<ul style="list-style-type: none"> Rubin, Stuart *; Milanova, Mariofanna (* U.S.A., ** Brazil): "Heuristic Search in 3D Object Recognition"
	<ul style="list-style-type: none"> Tate, Shunta; Takefuji, Yoshiyasu (Japan): "Two Layered Synchronized Spiking Neural System for Feature Binding and Figure Recognition"
	<ul style="list-style-type: none"> Tian, Jun; Wells, Raymond O. (U.S.A.): "Joint Compression and Detection of Image Data"
	<ul style="list-style-type: none"> Torige, Akira (Japan): "Human-Interface by Recognition of Human Gesture with Image Processing (recognition of three dimensional direction motion and speed change)"
	<ul style="list-style-type: none"> Tsapatsoulis, Nicolas; Avrithis, Yannis; Stefanos, Kollias (Greece): "On the use of Radon Transform for Facial Expression Recognition"
	<ul style="list-style-type: none"> Tseng, Din-Chang; Lai, Chih-Ching (Taiwan, Republic of China): "Multispectral Textured Image Segmentation Using Genetic and MRF-Based Algorithms"
	<ul style="list-style-type: none"> Tung, Cheng-Tan; Tseng, Din-Chang (Taiwan, Republic of China): "A singular Value Decomposition Approach for Mixed-pixel Classification of Hyperspectral Images"

MONDAY AUG. 2 4:00 pm – 6:00 pm	Cooperative Multi-agent Systems and Collective Intelligence III (Room No. 2)
	<ul style="list-style-type: none"> Lipperts, Steffen; Kreller, Birgit (Germany): "Mobile Agents in Telecommunications Networks - A Simulative Approach to Load Balancing"
	<ul style="list-style-type: none"> Liu, Yu; Yi, Xun; Miao, Yuan; Kheong Siew, Chee (Singapore): "A Secure Agent-based Distributed Computing Model for Mobile Client"
	<ul style="list-style-type: none"> Loerch, Ute; Guesgen, Hans W. (New Zealand): "Modeling and Design of a Multi-Agent Natural Language Parser"
	<ul style="list-style-type: none"> Michaud, François (Canada): "Emergent Behavior for Real World Robots"
	<ul style="list-style-type: none"> Miteff, James R.; Ostrowski, David A. (U.S.A.): "A Cultural Approach to Job Secuencing Optimization"
	<ul style="list-style-type: none"> Ostman, Charles (U.S.A.): "Transactional Process Brokeraging of Virtual Commodity Assets - An Emergent Economic Ecology"
	<ul style="list-style-type: none"> Quaresma, Paulo; Pimenta Rodrigues, Irene (Portugal): "A Logic Programming Framework for Cooperative Information Retrieval"
	<ul style="list-style-type: none"> Scarioni D., Andres; Moreno, José Ali (Venezuela): "A Cellular Automata Method for Filtering Digital Images"
MONDAY AUG. 2 4:00 pm – 6:00 pm	Evolutionary Programs I (Room No. 3)
	<ul style="list-style-type: none"> Bottini, Adrian; Pastoriza, Rafael A.; Moreno, José Ali (Venezuela): "An Evolutionary Strategy for the Parametrization of a Linear Predictive Model Generator in Time Series Modelling***"
	<ul style="list-style-type: none"> Carrasquero, Nestor; Moreno, Jose Ali (Venezuela): "An (1+1) Evolutionary Strategy for the Solution of the Symmetric Traveling Salesman Problem"
	<ul style="list-style-type: none"> Hernandez, German *; Niño, Fernando *; Quas, Anthony ** (* Colombia, ** USA): "Ergodicity of Evolutionary Systems"
	<ul style="list-style-type: none"> Rocco S., C. M. *; Miller, A.J. **; Moreno, Jose Ali *; Carrasquero, N. *; Medina, M. * (* Venezuela, ** United Kingdom): "An Evolutionary Approach to Analyse Uncertainties in Optimisation Programs"
	<ul style="list-style-type: none"> Rodriguez, Jose S.; Moreno, Jose Ali (Venezuela): "Evolutionary Induced Time Series Predictors Based on Radial Functions"
MONDAY AUG. 2 4:00 pm – 6:00 pm	Computing Techniques III (Room No. 4)
	<ul style="list-style-type: none"> Gulias, Victor (Spain): "Distributed Functional Evaluation: Dynamic Load Balancing on a Beowulf Cluster"
	<ul style="list-style-type: none"> Han, Woo-Yong; Ham, Ho-Sang; Park, Sang-Bong (Republic of Korea): "A Method to Design and Implement a Reliable CORBA ORB"
	<ul style="list-style-type: none"> Higashiyama, Yoichi (Japan): "Reliability of Consecutive k-out-of-r-from-n: F System with Unequal Component Probability"
	<ul style="list-style-type: none"> Hiratsu, Daisuke; Nagao, Tomoharu (Japan): "3D ACNN; and its applications to maze problems"
	<ul style="list-style-type: none"> Horie, M.; Manning, E.G.; Shoja, G.C.; Cheng, M.H.M. (Canada): "Protecting a Dynamically-Configurable Operating System"
	<ul style="list-style-type: none"> Huang, Tsung-Chuan; Shiu, Liang-Cheng; Lin, Yi-Jay (Taiwan, Republic of China): "Efficient Memory Access Sequence Generation for Coupled Subscripts in Data-Parallel Programs"
	<ul style="list-style-type: none"> Kafatos, Menas; Yang, Ruixin; Chiu, Long; El-Ghazawi, Tarek; Li, Zuotao; McManus, Jim; Wang, Changzhou; Wang, X. Sean; Weir, Heather; Yang, Kwang-Su (U.S.A.): "Data Access, Querying and Analysis in a Distributed Data Information Framework Supporting Earth System Science"

	<ul style="list-style-type: none"> • Toh, Hann Wei; Siyal, Mohammed Yakoob; Hin Kong, Hinny Pe (Hong Kong): "Reducing Read, Write Latencies in Distributed Objects Through Replication and Caching"
MONDAY AUG. 2 4:00 pm – 6:00 pm	Economic and Financial Systems (Room No. 5)
	<ul style="list-style-type: none"> • Agapie, Adriana; Badin, Luiza (Romania): "Hybrid Evolutionary Algorithms For Detecting Parameter Stability In Economic Systems"
	<ul style="list-style-type: none"> • Aimeur, Esma (Canada): "Case-Based Reasoning in FORSETI"
	<ul style="list-style-type: none"> • Giorgadze, G.K.; Kharatishvili (Georgia): "On the One Method of the Analysis of dynamic optimal price and operative predicting"
	<ul style="list-style-type: none"> • Guvenir, Altay H.; Altingovde, Sengor; Uysal, Ilhan; Erel Erdal (Turkey): "Bankruptcy Prediction Using Feature Projection Based Classification"
	<ul style="list-style-type: none"> • Nishino, Nariaki *; Oda, Sobei H. *; Markus, Andras **; Ueda, Kanji * (* Japan, ** Hungary): "A Model of the Point-of-Sales System: Simulating How Retailers Develop the Selection of Products without Knowing their Customers' Preference and Behavior Perfectly"
	<ul style="list-style-type: none"> • Rios Valledopez, Javier (Venezuela): "Fuzzy Financial Systems"
	<ul style="list-style-type: none"> • Segall, Richard. S.; Seydel, John (U.S.A.): "Supply Chain Management via Electronic Commerce"
MONDAY AUG. 2 4:00 pm – 6:00 pm	Management Support Systems III (Room No. 6)
	<ul style="list-style-type: none"> • Heck, Uwe; Quirchmayr, Gerald (Austria): "An Architecture for Embedding External Information Sources in Data Warehouses"
	<ul style="list-style-type: none"> • Herring, Charles; Kaplan, Simon (Australia): "ComponentSpaces"
	<ul style="list-style-type: none"> • Hui, Lucas C.K.; Leung, Karl R. P. H. (Hong Kong): "The Need of Signature Semantic Handling in Electronic Workflow Systems"
	<ul style="list-style-type: none"> • Kharatishvili, G.L. (Georgia): "The Dynamic Model of the Optimal Crediting Projects. Institute of Cybernetics, Georgian Academy of Sciences"
	<ul style="list-style-type: none"> • Koppel, Andreas; Böning, Dirk; Abeck, Sebastian (Germany): "How to Support the Negotiation of Service Level Agreements (SLAs) for Your Client/Server Application?"
	<ul style="list-style-type: none"> • Ortín Soler, Francisco; Martínez Prieto, A. B.; Alvarez Gutierrez, D.; Cueva Lovelle, J. M. (Spain): "An Implicit Persistence System on an OO Database Engine using Reflection"
MONDAY AUG. 2 4:00 pm – 6:00 pm	Groupware Technology in Mobile Environment – Invited Session (Room No. 7)
	Organizer: Cora Burger
	Chair: Cora Burger
	Co-Chair: Hans-Werner Gellersen
	<ul style="list-style-type: none"> • Belaidi, Farah; Abarca, Chelo; Sedillot, Simone (France): "User Data Consistency in a Mobile Multiparty TINA Session"
	<ul style="list-style-type: none"> • Berghoff, Jurgen; Mattheis, Michael; Drobnik, Oswald (Germany): "Mobile-awareness in Collaborative Learning Environments"
	<ul style="list-style-type: none"> • Gellersen, Hans-W (Germany): "Environment-Awareness in Mobile Groupware"
	<ul style="list-style-type: none"> • Nikolic, Nenad V. *; Milicevic, Milan M. *; Trajkovic, Milan V. *; Milutinovic, Veljko M. *; De Santo, Massimo ** (* Yugoslavia, ** Italy): "Incorporating GroupWare Technologies in Adaptive Distant Learning Environment"
MONDAY AUG. 2 4:00 pm- 6:00 pm	1st Symposium on Reusable Architectures and Components for Developing Distributed Information Systems III – Focus Symposium (Room No. 8)
	Organizer: Nader Nada
	Chair: Nader Nada

	<ul style="list-style-type: none"> • Park, Wei-Jin; Kim, Tai-Hyo; Bae, Doo-Hwan; Cha, Sung-Deok (Republic of Korea): "Towards Unified Architecture Description Containing Component's Behaviors"
	<ul style="list-style-type: none"> • Rine, David; Nader, Nada; Jaber, Khaled (U.S.A.): "Efficient Approach for the Development of Reusable Software Components"
	<ul style="list-style-type: none"> • Shaffer, Clifford A.; Watson, Layne T.; Kafura, Dennis G. (U.S.A.): "Component Frameworks for Problem Solving Environments in Computational Science"
	<ul style="list-style-type: none"> • Sridharan, Baskar; Mathur, Aditya P.; Ghosh, Sudipto; Govindarajan, Priya (U.S.A.): "A Framework for Assessing Test Adequacy, Architecture Extraction, Metering, Monitoring and Controlling Distributed Component-Based Systems"
	<ul style="list-style-type: none"> • Velasco, Manuel; Diaz, Irene; Morato, Jorge (Spain): "A Relationships Extraction Methodology for a Domain Analysis Process"
	<ul style="list-style-type: none"> • Yacoub, Sherif M; Ammar, Hany H. (U.S.A.): "Tool Support for Developing Pattern-Oriented Architectures"
MONDAY AUG. 2 4:00 pm – 6:00 pm	Control Systems III (Room No. 9)
	<ul style="list-style-type: none"> • Hadji, Souad; Gherbi, Chakib; Favrel, Joel (France): "Supervisory Robust Control"
	<ul style="list-style-type: none"> • Harmand, J. *; Steyer, J. P.*; Devisscher, M. **; Vanrolleghem, P. A. (* France, ** Belgium): "Fuzzy Supervisory Control of an Industrial Waste Water Equalization System"
	<ul style="list-style-type: none"> • Hiji, Masahiro; Kikuchi, Kazuhiko; Tezuka, Masaru (Japan): "Adaptive Production Scheduling System based on Agent"
	<ul style="list-style-type: none"> • Hong, Boe-Shong (U.S.A.): "Trade-off Rules in Feedback Control Systems"
	<ul style="list-style-type: none"> • Huang, Dexian; Wang, Jingchun; Jin, Yihui (Republic of China): "Non-linear Adaptive Predictive Control based on Orthogonal Wavelet Network"
	<ul style="list-style-type: none"> • Ito, Masanori; Zhang, Feifei (Japan): "Direction and Course Keeping Control of Ship Navigating in Transverse Flow"
	<ul style="list-style-type: none"> • Wang, Jin *; Huang, Jie *; Yau, Stephen S.T. ** (* Hong Kong, ** U.S.A.): "Approximate Nonlinear Output Regulation based on the Universal Approximation Theorem"
MONDAY AUG. 2 4:00 pm – 6:00 pm	Process Technology II - Invited Session (Room No. 10) Organizer: Pierre Fernand Tiako Chair: Pierre Fernand Tiako
	<ul style="list-style-type: none"> • Gary, Kevin A.; Linquist, Tim (U.S.A.): "Distributed Architectures for Process Component Support"
	<ul style="list-style-type: none"> • Gruhn, Volker; Schneider, Monika; Urbanczyk, Juri (Germany): "FAST: An Integrated Approach to Process Modeling Based on FUNSOFT Nets and State Transition Diagrams"
	<ul style="list-style-type: none"> • Jaccheri, M. Letizia *; Baldi, Mario **; Divitini, Monica * (* Norway, ** Italy): "Evaluating the Requirements for Software Process Modeling Languages and Systems"
	<ul style="list-style-type: none"> • Park, Jung Won; Port, Daniel; Boehm, Barry; In, Hoh (U.S.A.): "Supporting Distributed Collaborative Prioritization for Win Win Requirements Capture and Negotiations"
	<ul style="list-style-type: none"> • Teh, Hsin Yee *; Jarzabek, Stan *; Tiako, Pierre F. ** (* Singapore, ** France): "WWW-based Communication Tool for Distributed Team-based Software Development"
	<ul style="list-style-type: none"> • Tiako, Pierre Fernand; Derniame, Jean Claude (France): "Towards Process Components Mobility in Federated PSEEs"
MONDAY AUG. 2 4:00 pm – 6:00 pm	Internet, Telematic and Multimedia: Trends, Applications and Developments - Invited Session (Room No. 11) Organizer: Rodolfo Osers Chair: Rodolfo Osers

	<ul style="list-style-type: none"> • Brugos, Jose A. (Spain): "Integrating Videoconferencing in Intelligent Tutoring Systems"
	<ul style="list-style-type: none"> • Marques, Oge *; Hsu, Sam *; Sharda, Nalin ** (* U.S.A., ** Australia): "Virtual Office Hours Using NetMeeting"
	<ul style="list-style-type: none"> • Marshall, Garry (United Kingdom): "Networks, Complexity and Synergy"
	<ul style="list-style-type: none"> • Osers, Rodolfo; Balestrini, Yolanda; Osers, Thomas; Osers, Miguel (Venezuela): "A "Web Publication Engine" WPE for Electronic Journals using Database/Text Technologies"
	<ul style="list-style-type: none"> • Sharda, Nalin *; Gangisetty, Satish *; Adusumilli, Krishna **; Hsu, San ** (* Australia, ** U.S.A.): "Application of Videoconferencing to Distance Education: A Case Study with the ClassPoint Software"
MONDAY AUG. 2	Applications to Medicine and the Health Sciences – Focus Symposium (Room No. 12)
4:00 pm – 6:00 pm	Organizer: John Morderson Chair: John Morderson Co-Chair: D. S. Malik
	<ul style="list-style-type: none"> • Cheng, Shih-Chuan; Malik, D. S.; Mordeson, John N.; Gong, Goudong (U.S.A.): "Association of Vitamin D Receptor Gene Polymorphism and Bone Mineral Density: An Analysis by Possibility Theory"
	<ul style="list-style-type: none"> • Helgason, Cathy M.; Jobe, Thomas H.; Malik, D. S.; Mordeson, John N. (U.S.A.): "Analysis of Stroke Pathogenesis Using Hierarchical Fuzzy Clustering Techniques"
	<ul style="list-style-type: none"> • Malik, D. S.; Mordeson, John N.; Helgason, Cathy M.; Jobe, Thomas H. (U.S.A.): "Study of Stroke Pathogenesis using Possibility Theory and Hierarchical Fuzzy Clustering Techniques"
	<ul style="list-style-type: none"> • Wu, Hulin; Ding, A. Adam (U.S.A.): "Assessing Anti-HIV Therapies Using Viral Dynamics: An Overview"
MONDAY AUG. 2	Mobile / wireless computing I (Room No. 13)
4:00 pm – 6:00 pm	
	<ul style="list-style-type: none"> • Abe, Kohshi; Koizumi, Hisao (Japan): "A Mobile Multimedia Communication System for Future Railway Using Millimeter-Wave Radio"
	<ul style="list-style-type: none"> • Ahmed, Walid K. M.; McLane, Peter J. (U.S.A.): "Achievable Performance Over Fading Channels: An Information Theoretic Perspective"
	<ul style="list-style-type: none"> • Ahn, Jinho; Shon, Jin Gon; Hwang, Chong-Sun (Republic of Korea): "A Causal Message Logging Scheme for Mobile Computing Systems"
	<ul style="list-style-type: none"> • Bing, Benny; Chan, Ng Sock (Singapore): "Implementation of Mobile Internet Real Time Services over IEEE 802.11 Wireless LANs"
	<ul style="list-style-type: none"> • Boonsiriwattanakul, S.; Hurson, A. R.; Vijaykrishnan, N.; Chehadeh, C. (U.S.A.): "Energy-Efficient Indexing on Parallel Air Channels in a Mobile Database Access System"
	<ul style="list-style-type: none"> • Calveras-Augé, Anna; Arnau-Osorio, Miquel; Paradells-Aspas, Josep (Spain): "An Improvement of the TCP/IP Header Compression Algorithm for Wireless Links"
	<ul style="list-style-type: none"> • Chen, Chyi-Nan; Tsai, Ching-Ming; Liu, Chung-Fann (Taiwan, Republic of China): "The Mobility Management of a Multi-tier Roaming System over Internet"
	<ul style="list-style-type: none"> • Gallina, Paolo; Gasparetto, Alessandro (Italy): "A Friction-Based Single-Body Dynamic Model of a Mobile Robot"
TUESDAY AUGUST 3, 1999	
8:00 am – 9:30 am	Plenary Session
TUESDAY AUG. 3	Image and Signal Processing VII (Room No. 1)
9:30 am – 12:00 m	
	<ul style="list-style-type: none"> • Liu, Q.; Shippey, G.; Viberg, Mats (Sweden): "Resolution-Enhanced Active Wideband Sonar Imaging Employing Beamspace Focussing and Subspace Methods"

	<ul style="list-style-type: none"> • Ming, Zhou Xiao; Heng, Ang Chuan; Wang, Ling Tok (Singapore): "An object-based orientation relationship image system"
	<ul style="list-style-type: none"> • Van De Walle, Rik; Desplanques, Bart; Van Hoey, Gert; Lemahieu, Ignace (Belgium): "Reconstruction of MR Images from Data Sampled on a Non-Uniform Grid: a Simulation Study"
	<ul style="list-style-type: none"> • Vasilache, Adriana; Tabus, Ioan; Astola, Jaakko (Finland): "A Polar Quantizer for Spherically Symmetric Sources"
	<ul style="list-style-type: none"> • Vaucher, Gilles; Segquier, Renaud (France): "Artificial Neural Networks integrating the time factor for the processing of spatio-temporal forms"
	<ul style="list-style-type: none"> • Wang, Ce (U.S.A.): "Video Indexing on MPEG"
	<ul style="list-style-type: none"> • Watanabe, Toyohide (Japan): "Model-driven Recognition in Drawing Interpretation"
	<ul style="list-style-type: none"> • Yudashkin, Alexander (Russia): "Dynamical System Manifolds and Pattern Classification"
TUESDAY AUG. 3 9:30 am – 12:00 m	Network Architectures, Topologies and Protocols I (Room No. 2)
	<ul style="list-style-type: none"> • Choukair, Chris; Bayart, Mireille (France): "Application of External Model of Intelligent Equipment to Distributed Architectures"
	<ul style="list-style-type: none"> • Cruz-Perez, Felipe A.; Lara-Rodriguez, Domingo; Lara, Mauricio (Mexico): "On the Maximum GSM Reuse Efficiency in Manhattan Like Microcellular Environments"
	<ul style="list-style-type: none"> • Cruz-Otero, Hector M.; Lara-Rodriguez, Domingo (Mexico): "Distributed Power Control in Measurement-Based Dynamic Channel Assignment"
	<ul style="list-style-type: none"> • Flerackers, Chris *; Alsema, Frank **; Van Reeth, Frank *; Coninx, Karin * (* Belgium, ** The Netherlands): "TypoToons: An Interactive TV-application through a Networked Virtual Environment"
	<ul style="list-style-type: none"> • Hernandez-Valdez, Genaro; Cruz-Perez, Felipe; Lara-Rodriguez, Domingo; Lara, Mauricio (Mexico): "DDCA Algorithms with Intracell/Intercell Channel Reassignment"
	<ul style="list-style-type: none"> • Juanole, Guy; Blum, Isabelle (France): "Evaluating the QoS of Real Time Networks and Linking this QoS to the Performance of an Industrial Application"
TUESDAY AUG. 3 9:30 am – 12:00 m	Development Methods and Methodologies I (Room No. 3)
	<ul style="list-style-type: none"> • Alonso, Fernando; Antonio, Angelica de; Martinez, Loic; Montes, Cesar (Spain): "Unifying Software Development: Models for the Analysis Phase"
	<ul style="list-style-type: none"> • Beynon, Meurig; Cartwright, Richard; Sun, Pi-Hwa; Ward, Ashley (United Kingdom): "Interactive Situation Models for Information Systems Development"
	<ul style="list-style-type: none"> • Chappelet, Jean-Loup; Le Grand, André (Switzerland): "Workey: a method for workflows"
	<ul style="list-style-type: none"> • Karge, Reinhard (Germany): "Efficient Modelling Techniques for Complex Problems"
	<ul style="list-style-type: none"> • Klosch, René R. ; Truschneegg, Robert J. (Austria): "Experiences in successfully realise Mission Critical Applications in Time"
TUESDAY AUG. 3 9:30 am – 12:00 m	Computing Techniques IV (Room No. 4)
	<ul style="list-style-type: none"> • Ibrahim, Bertrand (Switzerland): "Semiformal Visual Languages, Visual Programming at a Higher Level of Abstraction"
	<ul style="list-style-type: none"> • Iglesias, Carlos A.; Garijo, Mercedes (Spain): "UER Technique: Conceptualisation for Agent Oriented Development"
	<ul style="list-style-type: none"> • Inder, Robert (United Kingdom): "CAPE: A Programming Environment for a New Generation of Knowledge Based Systems"
	<ul style="list-style-type: none"> • Indriago, Jose; Cuberos M., Ricardo; Molina, Nixon (Venezuela): "Development of a GIS for the Regional Health System, Zulia State, Venezuela"
	<ul style="list-style-type: none"> • Jun, Wang; Xiaojian, Ying (Republic of China): "Development and application of City Gas Geographic Information System (CGGIS)"

	<ul style="list-style-type: none"> • Kamp, V.; Sitzmann, L. (Germany): "MOA: A hybride multidimensional data model for interactive data exploration based on object-relational analysis units"
	<ul style="list-style-type: none"> • Khan, Concepcion I.; Sadananda, R. (Thailand): "Data Mining for Spatial Analysis of Emerging Trends"
	<ul style="list-style-type: none"> • Kim, Kibom; Yang, Kwon Yoo; Hwang, Chong-Sun; Shon, Jin Gon (Republic of Korea): "Low Cost Asynchronous Recovery in Distributed Computing System"
TUESDAY AUG. 3 9:30 am – 12:00 m	Information Systems Management I (Room No. 5)
	<ul style="list-style-type: none"> • Ahic-Djokic, Melita; Perunicic, Branislava (Bosnia): "Use of Live Demo Programs in Signals and Systems Course"
	<ul style="list-style-type: none"> • Bahli, Bouchaib (Canada): "Group Support Systems and Productivity: A Laboratory Experiment"
	<ul style="list-style-type: none"> • Cukier, Wendy; Devine, Irene; Grant, Ken (Canada): "From Structure to Infrastructure: Strategic Capability Enabled Through Information Technology"
	<ul style="list-style-type: none"> • Ehikioya, Sylvanus A. (Canada): "An Integrative Model of Information Technology Project Management"
	<ul style="list-style-type: none"> • Espinosa B., Gabriel E.; Aveledo, Marianella (Venezuela): "How to Achieve Information Organization Using ERP Applications"
	<ul style="list-style-type: none"> • Jakobsson, Matti (Finland): "Information Management Strategies in the Public Sector Organizations: Goals and Motivations"
	<ul style="list-style-type: none"> • Lopez, Maria Gertrudis; Rodriguez, Eva; Soriano, Amelia (Venezuela): "Definition of an Educational Administration Automated System"
TUESDAY AUG. 3 9:30 am – 12:00 m	Software Engineering and CASE Technologies I (Room No. 6)
	<ul style="list-style-type: none"> • Batos, Vedran; Kalpic, Damir; Baranovic, Mirta (Croatia): "An Approach to the Quality Improvement in the Software Development Process"
	<ul style="list-style-type: none"> • Blando, Luis (U.S.A.): "A Framework for a Rule-Based Form Validation Engine"
	<ul style="list-style-type: none"> • Boloix, Germinal (Canada): "Specifying and Evaluating Software Quality"
	<ul style="list-style-type: none"> • Borangiu, Theodor *; Manu, Mitica *; Tomas Balibrea, Luis Manuel ** (* Romania, ** Spain): "Software Architecture for Intelligent Assembling Processes"
	<ul style="list-style-type: none"> • Chang, E.; Dillon, T.; Ilkov, M. (Australia): "Software Estimation for Development with Object Libraries and DBMS's"
	<ul style="list-style-type: none"> • De Braganca Pereira, Carlos Alberto; Nakano, Fabio; Stern, Julio Michael (Brazil): "A Dynamic Software Certification an Verification Procedure"
	<ul style="list-style-type: none"> • Di Marzo Serugendo, Giovanna (Switzerland): "A Formal Development and Validation Methodology for System Design"
	<ul style="list-style-type: none"> • Goitia, Angel; Garcia Fanjul, Jose; Tuya, Javier; Corrales, José Antonio (Spain): "Testing the Security of Web-based Sales Services"
	<ul style="list-style-type: none"> • Jia, Xiaoping; Sawant, Sushant; Zhou, Jiangyu; Skevoulis, Sotiris (U.S.A.): "Applying Static Analysis for Detecting Null Pointers in Java Programs"
TUESDAY AUG. 3 9:30 am – 12:00 m	Broadband Networks I (Room No. 7)
	<ul style="list-style-type: none"> • Chiu, Ruey-Key; Chang, Liang-Peng; Wu, Chien-Hsun (Taiwan, Republic of China): "The Implementation of the Performance Evaluation and Management Support System for Modern Ether Switched Local Area Networks"
	<ul style="list-style-type: none"> • Chou, Li-Der; Kuo, Ming-Shu (Taiwan, Republic of China): "Bandwidth Allocation for VOD Systems with Fast Loading in ATM Networks"
	<ul style="list-style-type: none"> • Garcia, F.; Carretero, J.; Calderon, A. (Spain): "A Thread-Safe Implementation of MPI"
	<ul style="list-style-type: none"> • Hulicki, Z. *; Lorenz, Pascal ** (* Poland, ** France): "Traffic Models for ATM Network Architectures"

	<ul style="list-style-type: none"> Imhoff, Frank; Küpper, Axel (Germany): "Intelligent Network Functionality in an IP-based Environment"
	<ul style="list-style-type: none"> Jeong, HeonJu; Jungtae, Lee (Republic of Korea): "A Statistic Analysis Functions In an ATM Switching System"
TUESDAY AUG. 3 9:30 am – 12:00 m	Information Systems Education (Room No. 8)
	<ul style="list-style-type: none"> Behar, Patricia Alejandra (Brazil): "Logical-Operatory Analysis of the Microsoft Chat 2.0 Beta 1"
	<ul style="list-style-type: none"> Bern, Jochen; Meinel, Christoph (Germany): "Electronic Colloquia in the WWW: A New Form for Scientific Publications"
	<ul style="list-style-type: none"> Borges, Edith; Cuberos, Ricardo; Henneberg-Leon, Mara (Venezuela): "WEB: a New Media for Teaching and Learning Architecture. Case of Study: Sewage Systems"
	<ul style="list-style-type: none"> Gomez Skarmeta, Antonio; Martinez Gracia, Eduardo; Garcia Lopez, Pedro (Spain): "A New Education Framework Within IMS-Specifications"
	<ul style="list-style-type: none"> Mirenkov, Nikolay; Vazhenin, Alexander; Yoshioka, Rentaro; Ebihara, Tsukasa; Hirotoimi, Tetsuya; Mirenkova, Tatiana (Japan): "Active Knowledge Studio"
	<ul style="list-style-type: none"> Staehr, Lorraine; Cope, Chris (Australia): "A New Model for Teaching Information Systems?"
	<ul style="list-style-type: none"> Synnes, Kare; Parnes, Peter; Widen, Johnny; Schefström, Dick (Sweden): "Net-based Learning for the Next Millenium"
TUESDAY AUG. 3 9:30 am – 12:00 m	Control Systems IV (Room No. 9)
	<ul style="list-style-type: none"> Kase, Wataru; Teranishi, Makoto (Japan): "Reduced-Order and Proper Doubly Coprime Factorization and Sufficient Condition on Stabilizing Controller Reduction"
	<ul style="list-style-type: none"> Kolluru, Ramesh; Smith, Stanford; Loganantharaj, Rasaiah; Chambers, Terrence; Gracanic, Denis; Seetharaman, Guna (U.S.A.): "An Information Framework for Integrated Agile Manufacturing Systems"
	<ul style="list-style-type: none"> Luth, Karsten (Germany): "From Real-Time Timing Diagrams to Silicon: Compiling Real-Time Requirement Specifications"
	<ul style="list-style-type: none"> Mounfield, William Pratt*; Grujic, Ljubomir T. (** (*U.S.A., ** France): "PD High-Gain Natural Tracking Control of Time-Invariant Systems Described by IO Vector Differential Equations"
	<ul style="list-style-type: none"> Niizeki, Masatoshi (Japan): "Metaparts: A Simple Method for Modeling of Mechanical Parts"
	<ul style="list-style-type: none"> Sarker, Jahangir H.; Halme, Seppo J. (Finland): "Performance Analysis and Optimization of the GSM-GPRS Random Access Channel in a Rayleigh Fading Channel"
	<ul style="list-style-type: none"> Seow, Kiam Tian; Pasquier, Michel; Hong, Mun Li (Singapore): "Supervisory Control of Transport-Operations Processes"
	<ul style="list-style-type: none"> Stefanescu, Costin; Cupcea, Nicolae; Popescu, Dumitru (Romania): "Intelligent Power Quality Analyzer"
TUESDAY AUG. 3 9:30 am – 12:00 m	SCI in Biology and Medicine I (Room No. 10)
	<ul style="list-style-type: none"> Abdelbar, Ashraf M.; Attia, Sahar (Egypt): "Finding Most Probable Explanations Using Simulated Annealing as a Genetic Operator"
	<ul style="list-style-type: none"> Cremilleux, B.; Ragel, A.; Bosson, J. L. (France): "An Interactive and Understandable Method to Treat Missing Values: Application to a Medical Data Set"
	<ul style="list-style-type: none"> Das, B.; Mitra, S.K.; Banerjee, S. (India): "Knowledge Base System for Diagnostic Assessment of Doppler Spectrogram"
	<ul style="list-style-type: none"> Elloumi, Mourad; Kaâbi, Safa (Tunisia): "Exact and Approximation Algorithms for the DNA Sequence Assembly Problem"
	<ul style="list-style-type: none"> Huotari, Matti (Finland): "A Systems Approach to Insect Olfactory Neurosensors"

	<ul style="list-style-type: none"> • Penson, Richard (United Kingdom): "Time-Frequency Analysis of Intracranial Compliance"
	<ul style="list-style-type: none"> • Ponomarenko, Mikhail *; Ponomarenko, Julia *; Frolov, Anatoly *; Levitsky, Victor *; Orlova, Galina *; Lavryushev, Sergey *; Vorobyev, Denis *; Kochetov, Alexey ; Podkolodny, Nikolay ; Kolchanov, Nikolay *; Overton, G. Christian (* Russia, ** U.S.A.): "Data-Farming: Systemic Tree-like Infrastructure Development of the Data- and Knowledge Bases on functional DNA and RNA sites"
TUESDAY AUG. 3 9:30 am – 12:00 m	Evolutionary Programs II (Room No. 11)
	<ul style="list-style-type: none"> • Ali, Fath El Alem F. *; Nakao, Zensho *; Haidar, Ali **; Chen, Yen-Wei * (* Japan, ** Lebanon): "A Co-evolutionary Algorithm for Multi-Criterion Optimization"
	<ul style="list-style-type: none"> • Ansari, Arif; Papavassilopoulos, George. P. (U.S.A.): "A Pruning Technique to Increase the Rate of Convergence of Learning Algorithms"
	<ul style="list-style-type: none"> • Esquivel, Susana C.; Leiva, Hector A.; Gallard, Raul H. (Argentina): "Search Improvements Via Multiple Recombination in Evolutionary Algorithms"
	<ul style="list-style-type: none"> • Ferro, E.; Cayssials, R.; Orozco, J. (Argentina): "Tuning the Cost Function in a Genetic/Heuristic Approach to the Hard Real-Time Multitask-Multiprocessor Assignment Problem"
	<ul style="list-style-type: none"> • Ozdemir, E.; Arslan, T. (United Kingdom): "Evolutionary Synthesis of VLSI Circuits with Fault Complementing"
TUESDAY AUG. 3 9:30 am – 12:00 m	SCI in Art (Room No. 12)
	<ul style="list-style-type: none"> • Bozzi, Andrea (Italy): "Philological Use of Digital Sources: Manuscripts and Old Printed Books"
	<ul style="list-style-type: none"> • Jacobson, Jeffrey; Vadnal, Jane (U.S.A.): "Multimedia in Three Dimensions for Archaeology; Information Retrieval with Interactive Models"
	<ul style="list-style-type: none"> • Miyasato, Tsutomu (Japan): "Generation of Pictures based on the Synesthesia Phenomenon"
	<ul style="list-style-type: none"> • Rodriguez, I.; de Pedro, J.; Meziat, D. (Spain): "Integrating Virtual Humans and Virtual Stages"
	<ul style="list-style-type: none"> • Woolf, Sam (United Kingdom): "Art and Artificial Life"
TUESDAY AUG. 3 9:30 am – 12:00 m	Mobile / wireless computing II (Room No. 13)
	<ul style="list-style-type: none"> • Gorricho Moreno, Monica; Gorricho Moreno, Juan Luis (Spain): "A Combining Macro-diversity Scheme Based on the Viterbi Algorithm"
	<ul style="list-style-type: none"> • Higuchi, Fumito; Iga, Soichiro; Yasumura, Michiaki (Japan): "A TONGUING APPROACH: A TRIAL FOR A TASTE OF A NEW USER INTERFACE"
	<ul style="list-style-type: none"> • Kozatchok, Irina; Pierre, Samuel (Canada): "A New Strategy for Polling Mobile Users under Delay Constraints"
	<ul style="list-style-type: none"> • Patsouris, Panos A. (South Africa): "Dynamic Monitoring of Security Attacks along the Edges of a Formal Network Modelled as a Pathset Algebra"
	<ul style="list-style-type: none"> • Shinnishi, Makoto; Iga, Soichiro; Higuchi, Fumito; Yasumura, Michiaki (Japan): "Hide and Seek: Physical Real Artifacts which Respond to the User"
	<ul style="list-style-type: none"> • Tang, Ming-Chung; Shih, Wei-Kuan; Chang, R. C. (Taiwan, Republic of China): "A Software Radio Based Architecture for GSM System to Access Wireless Data Services"
	<ul style="list-style-type: none"> • Thanh, Do Van; Steensen, Sverre; Audestad, Jan A. (Norway): "Using Mobile Agent to Support Mobility"
	<ul style="list-style-type: none"> • Tosun, Ali Saman; Feng, Wu-Chi (U.S.A.): "The Effect of Bit Errors on MPEG Video Quality for Wireless Networks"
TUESDAY AUG. 3	Speech and Acoustic Processing I (Room No. 1)

1:30 pm – 3:30 pm	
	<ul style="list-style-type: none"> • Arias, Juan F.; Chhabra, Atul K. (U.S.A.): "A System for the Interactive Interpretation of Telephone Company Central Office Drawings"
	<ul style="list-style-type: none"> • Giurcaneanu, Ciprian Doru; Tabus, Ioan (Finland): "Independent Component Analysis Based Characteristic Waveform Decomposition for Speech Coding"
	<ul style="list-style-type: none"> • Iordache, Razvan; Tabus, Ioan (Finland): "Index Assignment for Channels with Memory using Hadamard Transform"
	<ul style="list-style-type: none"> • Matsuura, Takenobu; Yamamoto, Shunsuke (Japan): "Signature Verification Based on Direction-Change of Pen-point Movement"
	<ul style="list-style-type: none"> • Muller, Ludek *; Psutka, Josef *; Ircing, Pavel ** (* Czech Republic, ** U.S.A.): "Recognition of Radio Broadcasted Speech in a Task with Low Perplexity and Sparse Training Data"
	<ul style="list-style-type: none"> • Thome, Antonio Carlos Gay; dos Santos, Sidney B; Diniz, Suelaine (Brazil): "Automatic Speech Recognition: A Study and Performance Evaluation on Neural Networks and Hidden Markov Models"
	<ul style="list-style-type: none"> • Tran, Dat; Pham, Tuan; Wagner, Michael (Australia): "Speaker Recognition using Gaussian Mixture Models and Relaxation Labeling"
TUESDAY AUG. 3 1:30 pm – 3:30 pm	Network Architectures, Topologies and Protocols II (Room No. 2)
	<ul style="list-style-type: none"> • Khoussainov, Rinat; Bessonov, Mikhail; Gladyshev, Pavel; Patel, Ahmed (Ireland): "On Improving the Ethernet LAN Security"
	<ul style="list-style-type: none"> • Kuralenok, Igor *; Dobrynin, Vladimir *; Nekrestyanov, Igor *; Bessonov, Mikhail **; Patel, Ahmed ** (* Russia, ** Ireland): "Distributed Search In Topic-Oriented Document Collections"
	<ul style="list-style-type: none"> • Lain, Jenn-Kaie; Wen, Jyh-Horng; Chen, Fueng-Ho; Lai, Yu-Wen; Chen, Hsi-Kun (Taiwan, Republic of China): "Performance Simulation of Wireless Broadband Systems Using NC-PRMA/DA or PRMA/DA Protocols"
	<ul style="list-style-type: none"> • Luff, Markus (Germany): "Operating System Support for Ubiquitous Computing"
	<ul style="list-style-type: none"> • Lopes de Souza, Paulo Sergio; Santana, Marcos Jose; Carlucci Santana, Regina Helena (Brazil): "AMIGO – A Dynamical Flexible Scheduling Environment"
	<ul style="list-style-type: none"> • Moon, KyeongDeok; Lee, JoongSoo; Kim, JinChul; Lee, YoungHee (Republic of Korea): "Designing the ANGLE(Active Network for GLocal Environment) System"
TUESDAY AUG. 3 1:30 pm – 3:30 pm	Mathematical Methods and Optimization I (Room No. 3)
	<ul style="list-style-type: none"> • Akama Kiyoshi; Shigeta, Yoshinori; Miyamoto, Eiichi (Japan): "Problem Solving by Equivalent Transformation of Logic Programs"
	<ul style="list-style-type: none"> • Batterywala, Shabbir H.; Narayanan, H. (India): "Spectral Approximation Method for Choosing 'Relevant' Eigenvalues During Interconnect Analysis"
	<ul style="list-style-type: none"> • Cleju, Ioan; Sirbu, Adriana (Romania): "A Computer Search for Polynomial Error-Correcting Codes"
	<ul style="list-style-type: none"> • Katkov, Aleksander; Piech, Henryk; Gubareny, Nadiya (Poland): "Neurosimilar Computations in Simulation Systems with Distributed Intelligence"
	<ul style="list-style-type: none"> • Krishnamurthy, E.V. (Australia): "Open Problems in the Design of Quantum Control and Computational Systems"
	<ul style="list-style-type: none"> • Mochizuki, Yoshiyuki; Inokuchi, Seiji; Omura, Koichi (Japan): "Optimizing Simulation for Long Distance Throw in Baseball from a 3-dimensional Captured Motion"
	<ul style="list-style-type: none"> • Rogina, Pablo J.; Wainer, Gabriel (Argentina): "New Real-Time Extensions to MINIX operating system"
TUESDAY AUG. 3 1:30 pm – 3:30 pm	Computing Techniques V (Room No. 4)
	<ul style="list-style-type: none"> • Da Silva, Antonio Mendes (Brazil): "Software Supervision: A Technique for Indirect Software Reliability Improvement of Telecom Systems"

	<ul style="list-style-type: none"> • Kim, Jong Song; Lee, Dong-Ik; Lew, Young-Chul; Kim, Moo-Ja (Republic of Korea): "Efficient Time State Space for Analysis of Real-Time Systems"
	<ul style="list-style-type: none"> • O'Brien, Mark John; Bagiokou, Maria (United Kingdom): "An adaptive compiler to support the syntactic evolution of programming languages"
	<ul style="list-style-type: none"> • O'Brien, Mark John; Bagiokou, Maria (United Kingdom): "The Conceptual Basis of Programming Language Evolution"
	<ul style="list-style-type: none"> • Refanidis, Ioannis; Vlahavas, Ioannis (Greece): "SSPOP: A State Space Partial-Order Planner"
	<ul style="list-style-type: none"> • Rocco S., Claudio M. *; Castro, Natasha E. **; (* United Kingdom, ** Venezuela): "Comparison of Three Techniques for Incomplete Data Analysis"
	<ul style="list-style-type: none"> • Saeyor, Santi; Ishizuka, Mitsuru (Japan): "Adaptive Service to Monitor Changes in Web Repositories Based on Game Analysis"
	<ul style="list-style-type: none"> • Sallis, Philip *; Kassabova, Diana *; Hill, Linda **; Larsgaard, Mary **; Lovette, Kevin **; Masi, Catherine **; Rae, Mary-Anna ** (* New Zealand, ** U.S.A.): "Connectionist Data Mining Techniques for Deriving Characteristics of System Use"
TUESDAY AUG. 3 1:30 pm – 3:30 pm	Information Systems Management II (Room No. 5)
	<ul style="list-style-type: none"> • Al-Qaimari, Ghassan; McRostie, Darren; Pritchard, Doug (Australia): "Automation of Usability Analysis Techniques"
	<ul style="list-style-type: none"> • Lupu, Ciprian; Popescu, Dumitru; Petrescu, Catalin (Romania): "Multi-Models Adaptive Control Systems"
	<ul style="list-style-type: none"> • Piekarski, Ana Elisa Tozetto; Penteado, Rosangela Aparecida Delloso; Santana, Marcos Jose; Santana, Regina Helena Carlucci (Brazil): "Improvement of the Reverse Engineering Process Using the Fusion-RE Approach"
	<ul style="list-style-type: none"> • Popescu, Dumitru; Lupu, Ciprian; Cupcea, Nicolae (Romania): "Information Systems for the Dynamics Evaluation of the Hydro-Energetic Dams"
	<ul style="list-style-type: none"> • Razumov, V.I.; Sizikov, V. P. (Russia): "Informational Systems Homeostase: Rhythms and Control"
	<ul style="list-style-type: none"> • Shankararaman, V.; Lam, W. (United Kingdom): "Automating Change Management Using Case-Based Reasoning"
	<ul style="list-style-type: none"> • Takahara, Yasuhiko; Liu, Yongmei (Japan): "An Extended Prolog for End User Development"
TUESDAY AUG. 3 1:30 pm – 3:30 pm	Software Engineering and CASE Technologies II (Room No. 6)
	<ul style="list-style-type: none"> • Halstead-Nussloch, Rich (U.S.A.): "Software Engineering Practicum Projects: Opportunities and Pitfalls"
	<ul style="list-style-type: none"> • King, Graham (United Kingdom): "Software Quality: Process Improvement through Quantitative Approaches"
	<ul style="list-style-type: none"> • Kroening, Daniel; Mueller, Silvia M.; Paul, Wolfgang J. (Germany): "A Rigorous Correctness Proof of a Tomasulo Scheduler Supporting Precise Interrupts"
	<ul style="list-style-type: none"> • Li, Wei; Talburt, John; Alshayeb, Mohammad (U.S.A.): "Software Metrics and Object-Oriented System Evolution"
	<ul style="list-style-type: none"> • Marrero, Mario; Suarez, Alvaro; Álvarez, Alberto; Pego, Eva M^a; Macias, Elsa; Gonzalez, Antonio (Spain): "Formal Specification and Verification of a Distributed Network Management Protocol"
	<ul style="list-style-type: none"> • Montaña, Nora; Acosta, Eleonora; Mazzeo, Mariela; Marcano, Cecilia (Venezuela): "OASIS: Design and Implementation of a Tool for the Construction of Use Cases"
	<ul style="list-style-type: none"> • Nicolle, Christophe; Cullot, Nadine (France): "TIME : A Case Tool to Manage Heterogeneous Information Systems"
	<ul style="list-style-type: none"> • Wolf, Andreas (Germany): "Strategy Parallelism: Fast Automated Theorem Proving"
TUESDAY AUG. 3	Broadband Networks II (Room No. 7)

1:30 pm – 3:30 pm	
	<ul style="list-style-type: none"> Lara-Rodriguez, Domingo; Laguna-Martinez, Vianey (Mexico): "Capacity Analysis Of An Overlaid Tdma/Cdma Cellular System"
	<ul style="list-style-type: none"> Lu, Keh-Ming; Chou, Wei-Chen (U.S.A.): "VSAT Networks on the World's Rooftop"
	<ul style="list-style-type: none"> Martinez-Zazueta, Benjamin D.; Lara-Rodriguez, Dominguez (Mexico): "Performance of Dynamic Channel Assignment Schemes for PACS-UB"
	<ul style="list-style-type: none"> Mayer, Andrew J. (U.S.A.): "Network Management Applications of the ATM Network View Abstraction"
	<ul style="list-style-type: none"> Noh, Sung Kee (Republic of Korea): "An Implementation of HMI System for ATM Network"
	<ul style="list-style-type: none"> Sun, Yi (U.S.A.): "A Generalized Search Rule of Likelihood Ascent Search Detectors for CDMA Multiuser Detection"
TUESDAY AUG. 3 1:30 pm – 3:30 pm	Intra-, Extra- and Internet I (Room No. 8)
	<ul style="list-style-type: none"> Barrere, Eduardo; Abrao, Iran Calixto; Camillo Teixeira, Cesar Augusto (Brazil): "Hierarchy in the Multimedia Data Control with HyperText Media Components"
	<ul style="list-style-type: none"> Cuberos Mejia, Ricardo; Indriago, Jose Antonio; Borges Luengo, Edith (Venezuela): "AGORA - Telematic Information Service about Architecture and Cities"
	<ul style="list-style-type: none"> Delgado, Jaime *; Delgrossi, Luca **; Haase, Oliver ***; Herwart, Wermescher ****; Lago, Patricia **; Moiso, Corrado **; Zuidweg, Johan ***** (* Spain, ** Italy, *** Germany, **** Austria, ***** Belgium): ICETEA: An Intelligent Communications Environment for Telework and Electronic Commerce Applications"
	<ul style="list-style-type: none"> Kroell, Christoph (Germany): "Internet IP Security Implementations"
	<ul style="list-style-type: none"> Lee, Mike Myung-Ok; Lee, Seung-Min (Republic of Korea): "Ultra-High-Speed ADSL Modem Chip for Interactive Internet Service"
	<ul style="list-style-type: none"> Yuan, Miao; Wong, K.K.; Miao, C.Y.; Liu, Yu; Xun, Yi (Singapore): "Smart Profile Agent for Internet Access"
TUESDAY AUG. 3 1:30 pm – 3:30 pm	Control Systems V (Room No. 9)
	<ul style="list-style-type: none"> Simani, Silvio (Italy): "Fuzzy Multiple Inference Identification and its Application to Fault Diagnosis of Industrial Processes"
	<ul style="list-style-type: none"> Teranishi, Makoto; Kase, Wataru (Japan): "Optimal Design of Pole Placement Systems for a Minimum Phase Plant with Input Noise"
	<ul style="list-style-type: none"> Tronci, Enrico (Italy): "Synthesizing Controllers from Closed Loop Formal Specifications"
	<ul style="list-style-type: none"> Wainer, Gabriel (Argentina): "Definition of Parallel Cell-DEVS models"
	<ul style="list-style-type: none"> Yang, Ciann-Dong; Sun, Yun-Ping (Taiwan, Republic of China): "Multi-objctive H₂/H_∞ Cruise Control of High Speed Train via Linear Matrix Inequalities"
	<ul style="list-style-type: none"> Yssupova, N. I.; Mironov, V. V.; Gonchar, L. E. (Russia): "Hierarchical Situational Models and Linguistic Means for Their Realization"
	<ul style="list-style-type: none"> Zerbe, Volker *; Freund, Ulrich **; Marinov, Marin ** (* Germany, ** Bulgaria): "Mission level design of control systems"
	<ul style="list-style-type: none"> Zhang, Feifei; Ito, Masanori (Japan): "Intelligent Control System for Rubber-Tired Gantry Cranes in Container Terminal"
TUESDAY AUG. 3 1:30 pm – 3:30 pm	SCI in Biology and Medicine II (Room No. 10)
	<ul style="list-style-type: none"> Klopotek, M. A.; Wierzchon, S. T. (Poland): "WWW Supporting Tasks of A Medical Expert System"
	<ul style="list-style-type: none"> Kostek, B.; Czyzewski, A.; Suchomski, P. (Poland): "Multimedia Fitting System for Hearing Impaired People"

	<ul style="list-style-type: none"> • Kovacs, F.; Török, M. (Hungary): "A Telemedical Information System for Fetal Monitoring"
	<ul style="list-style-type: none"> • Lovis, Chrisitan; Baud, Robert: "Electronic Patient Record: Dealing with Numbers or with Words?"
	<ul style="list-style-type: none"> • Miorelli, Adriana; Adami, André Gustavo (Brazil): "A Dengue Epidemic Simulation System for Insecticide Application Evaluation"
	<ul style="list-style-type: none"> • Simaey, Barbara; Philips, Wilfried; Lemahieu, Ignace; Govaert, Paul (Belgium): "A "poor man's approach" to reproducible quantitative analysis of ultrasound images"
	<ul style="list-style-type: none"> • Skaryski, H.; Czyzewski, A.; Kostek, B.; Szwoch, G. (Poland): "Computer Techniques in Electrostimulation Testing of Hearing and Hearing Aid Modeling"
TUESDAY AUG. 3 1:30 pm – 3:30 pm	<p>Modeling and Control of Intelligent Systems – Invited Session (Room No. 11)</p> <p>Organizer: Philippe Gorce</p> <p>Chair: Philippe Gorce</p>
	<ul style="list-style-type: none"> • Cordoba Garcia, Francisco; Lopez-Coronado, Juan (Spain): "Modelling and Control of Anthropomorphic Fingers for Intelligent Systems"
	<ul style="list-style-type: none"> • Finat, Javier (Spain): "Lie Techniques in Neuro-Control for Intelligent Hierarchised Systems"
	<ul style="list-style-type: none"> • Finat, Javier; Gonzalo-Tasis, Margarita (Spain): "Topological methods for structural properties in artificial vision"
	<ul style="list-style-type: none"> • Gorce, P.; El Hafı, F. (France): "Modelling and Control of the Gait Initiation Process"
	<ul style="list-style-type: none"> • Gorce, P.; Guihard, M. (France): "Cybernetical Method for Simulating the Dynamic Vertical Jump"
TUESDAY AUG. 3 1:30 pm – 3:30 pm	<p>Towards a Convergence between Multimedia Systems and Real Time Systems – Invited Session (Room No. 12)</p> <p>Organizer: Gladys Diaz</p> <p>Chair: Gladys Diaz</p> <p>Co-Chair: Jean- Pierre Thomesse</p>
	<ul style="list-style-type: none"> • Diaz, Gladys; Thomesse, Jean- Pierre (France): "Multimedia Systems and Real-Time Systems: Some Analogies and Similarities"
	<ul style="list-style-type: none"> • Gelenbe, Erol; Wang, Jun; Barrionuevo, Juan Manuel (U.S.A.): "Delay Based Call Admission Control"
	<ul style="list-style-type: none"> • Guyennet, Herve; Garcia, Eric; Lapayre, Jean Christophe (France): "Multimedia Integration in Cooperative Work"
	<ul style="list-style-type: none"> • Senac, Patrick; Diaz, Michel (France): "Semantics of Time and Temporal Composition in Distributed Multimedia/Hipermedia Systems"
	<ul style="list-style-type: none"> • Sureswaran, Ramadass; Yusoff, Zaharin (Malaysia): "Problems and Solutions to Real-Time Multimedia Conferencing over Networks with Substantial Delays"
TUESDAY AUG. 3 1:30 pm – 3:30 pm	<p>Development Methods and Methodologies II (Room No. 13)</p>
	<ul style="list-style-type: none"> • Larin, Vladimir B. (Ukraine): "Control of a composite wheel system"
	<ul style="list-style-type: none"> • Mao, Weng Zu; Bell, David (United Kingdom): "Distributed Image Query and Exploration Based on Visual Ontology"
	<ul style="list-style-type: none"> • Probert, Stephen K. (United Kingdom): "Authenticity in Information Systems Analysis"
	<ul style="list-style-type: none"> • Shih, Li Chung (Hong Kong): "Applications of Generalized Search Procedure"
	<ul style="list-style-type: none"> • Yamashita, Rei-Jo *; Ito, Tetsuro *; Yao, Hsiu-Hsen ** (* Japan, ** Taiwan, Republic of China): "On Management of Semi-Structured Data for Information System Development"
TUESDAY AUG. 3	<p>Speech and Acoustic Processing II (Room No. 1)</p>

4:00 pm – 6:00 pm	
	<ul style="list-style-type: none"> Fu, Henry; Rodman, Robert D.; McAllister, David F.; Bitzer, Donald L.; Xu, Bowie; (U.S.A.): "Classification of Voiceless Fricatives through Spectral Moments"
	<ul style="list-style-type: none"> Radova, Vlasta*; Vopalka, Petr*; Ircing, Pavel** (* Czech Republic, ** U.S.A.): "Methods of Phonetically Balanced Sentences Selection"
	<ul style="list-style-type: none"> Robel, Axel (Germany): "Morphing sound attractors"
	<ul style="list-style-type: none"> Shang, Yi; Li, Longzhuang.; Ho, K. C. (U.S.A.): "Optimization Design of Filter Banks for Wavelet Denoising"
	<ul style="list-style-type: none"> Tadj, Chakib (Canada): "New Issues on Nonlinear Discriminant Analysis for Speaker Recognition"
	<ul style="list-style-type: none"> Tanaka, Kazuyo; Kojima, Hiroaki (Japan): "A Speech Recognition Method Based on Intermediate Phonetic Code Systems"
	<ul style="list-style-type: none"> Tassart, Stephan (France): "Identification Method for Nearly-Harmonic Sounds, Derived from the Extended Karplus-Strong Model"
	<ul style="list-style-type: none"> Yu, Zhenli; Zeng, Shangcui (Republic of China): "A method of voice color control incorporate with inverse speech solution and articulatory synthesis"
TUESDAY AUG. 3	Network Architectures, Topologies and Protocols III (Room No. 2)
4:00 pm – 6:00 pm	
	<ul style="list-style-type: none"> Patel, Ahmed*; Gladyshev, Pavel*; Katsikas, Sokratis**; Gritzalis, Stefanos** (* Ireland, ** Greece): "Towards a Cross-Domain Trusted Third Party Infrastructure"
	<ul style="list-style-type: none"> Patel, Ahmed; Khoussainov, Rinat; Schmidt, Nikita (Ireland): "Data Cache Performance Evaluation: the Impact of Architectural Issues"
	<ul style="list-style-type: none"> Raksapatcharawong, Mongkol (Thailand): "A Progress in Developing High-performance Multiprocessor Network Routers based on Optoelectronic Technologies"
	<ul style="list-style-type: none"> Rodellar, Daniel; Bungarzeanu, Cristian (Switzerland): "Simulation of Multi-Channel MAC Protocols with Poisson and Fractal Traffic Sources"
	<ul style="list-style-type: none"> Tanaka, Hidema; Hisamatsu, Kazuyuki; Kaneko, Toshinobu (Japan): "Strength of MISTY1 without FL function for Higher Order Differential Attack"
	<ul style="list-style-type: none"> Vandewauver, Mark*; Ashley, Paul** (* Belgium, ** Australia): "The Importance of Security in Modern Communication Networks"
	<ul style="list-style-type: none"> Vojnovic, Milan; Rozic, Nicola (Croatia): "Measuring Performance of TCP over ATM LAN"
	<ul style="list-style-type: none"> Yang, Chu-Sing; Bai, Sheng-Wen; Liu, Chien-Yuan (Taiwan, Republic of China): "Efficient Indexing Algorithms for Array Redistribution"
TUESDAY AUG. 3	Mathematical Methods and Optimization II (Room No. 3)
4:00 pm – 6:00 pm	
	<ul style="list-style-type: none"> Scott, Steve; Osborne, Hugh; Simpson, Ron (United Kingdom): "Assessing Case Value in Case-Based Reasoning with Adaptation"
	<ul style="list-style-type: none"> Shikhaliev, Sabir Z. (United Kingdom): "Implicit Algorithm of Polynomial Acceleration for Solving of Initial-Boundary Value Problems for Parabolic Equations"
	<ul style="list-style-type: none"> Yoshida, Tadayuki; Akama, Kiyoshi.; Miyamoto, Eiichi (Japan): "Representation and Computation Using First-order Logical Constraints"
	<ul style="list-style-type: none"> Zhang, Chunrui; Siyal, M.Y.; Liu, Jianfeng (Singapore): "The New Method for Segmentation of Moving Object"
	<ul style="list-style-type: none"> Zhang, Jun; Chung, Henry; Hui Ron, Shu-Yuen (Hong Kong): "Development of an Embedded Fuzzy-Based Replication Technique for Chaotic System"
	<ul style="list-style-type: none"> Zhang, Yi-Mo; Tian, Jing-Dong; Jing, Wen-Cai; Zhou, Ge; Liu, Wei; Hua, Feng; Zhang, Xun; Zhao, Hong-Dong (Republic of China): "The Application of Wavelength Routing in the Optical Interconnection"
	<ul style="list-style-type: none"> Zudilova, Elena V. (Russia): "Using Animation for Presenting the Results of Numerical Simulation"

TUESDAY AUG. 3 4:00 pm – 6:00 pm	Computing Techniques VI (Room No. 4)
	<ul style="list-style-type: none"> Aoki, Yoshimitsu; Hisatomi, Kensuke; Hashimoto, Shuji (Japan): "Robust and Active Human Face Tracking Vision using Multiple Information"
	<ul style="list-style-type: none"> Sengupta, Arijit (U.S.A.): "The compleat closure: toward a unified view of structured document database objects"
	<ul style="list-style-type: none"> Shimokawa, Toshihiko; Narazaki, Shuji; Hamachi, Hiroki; Norihiko, Yoshida (Japan): "Dynamic Multi-Server Reconfiguration Using Meta-level Computation in Distributed Information Sharing"
	<ul style="list-style-type: none"> Tsumoto, Shusaku (Japan): "Medical Data Mining using Rough Set Model"
	<ul style="list-style-type: none"> Wedekind, Hartmut; Albrecht, Jens; Gunzel, Holger; Wolfgang, Lehner (Germany): "Repositories for Data Warehouse Systems in a Middleware Environment"
	<ul style="list-style-type: none"> Wen, Yuhong; Fox, Geoffrey C. (U.S.A.): "Performance Prediction for Data Intensive Applications on Large Scale Parallel Systems"
	<ul style="list-style-type: none"> Yoo, Seung Keun; Ahn, Seong Jin; Chung, Jin Wook (Republic of Korea): "Design and Implementation of Web-Based Internet Performance and Fault Monitoring system"
TUESDAY AUG. 3 4:00 pm – 6:00 pm	Multimedia Processing (Room No. 5)
	<ul style="list-style-type: none"> Ferguson, Tim; Wu, Hong R. (Australia): "The Partitioning of Fractal Video Sequences"
	<ul style="list-style-type: none"> Kwok, S. H. (Hong Kong): "Hierarchical Structure of Time Window for Video Processing and Coding"
	<ul style="list-style-type: none"> Mani, Ramamurthy; Nawab, S.Hamid; Taibi, Giuseppe (U.S.A.): "Time-Frequency Signal Representation for Polyphonic Music"
	<ul style="list-style-type: none"> Wang, Xinying; Plataniotis, K.N.; Venetsanopoulos, A.N. (Canada): "Video Sequences Shots Cut Base on Luminance Histogram"
	<ul style="list-style-type: none"> Zhang, You; Huang, Thomas S. (U.S.A.): "An Audio-Video Database for Robust Audio-Video Speech Recognition"
TUESDAY AUG. 3 4:00 pm – 6:00 pm	SCI in Psychology (Room No. 6)
	<ul style="list-style-type: none"> Arroyo, F.; Luengo, C.; De Mingo, L.F.; Castellanos, J. (Spain): "Evolving Connectionist and Symbolic Processes in a Hierarchical Memory Model"
	<ul style="list-style-type: none"> Bonyuet, David *; Monferrer, Alexandre **: (* Venezuela, ** Spain): "Users and Evaluation and approach to Get the Right Information"
	<ul style="list-style-type: none"> Gil, Airam; Gil, Deris; Pio, Miguel; Ojeda, Maria; Milliani, Luis; Fernandez, Nestor; Vasquez, Jhony (Venezuela): "Diagnostic of the Emotional Intelligence Presence in a Secondary School of Venezuela"
TUESDAY AUG. 3 4:00 pm – 6:00 pm	Robotics (Room No. 7)
	<ul style="list-style-type: none"> Casalino, G.; Marani, G.; Angeletti, D.; Cannata, G. (Italy): "Robotics Developer Studio Symbolic-based Model Builder for Multibody Systems"
	<ul style="list-style-type: none"> Changirwa, R.; Frimpong, S.; Szymanski, J. (Canada): "Mining Truck Automation, Simulation and Robotization"
	<ul style="list-style-type: none"> Emami, M. Reza; Goldenberg, Andrew A. (Canada): "Fuzzy-Logic Dynamic Modeling of the Acceleration - Induced Physiologic Response of Human Body"
	<ul style="list-style-type: none"> Faria, Elmo B.; Teixeira, Edilberto P.; Correa, Ghilson R. (Brazil): "A Hardware Implementation of a Fuzzy Controller for a Robot Arm"
	<ul style="list-style-type: none"> Fatikow, Sergej; Woern, Heinz (Germany): "Control System of a Smart Microrobot Cell"

	<ul style="list-style-type: none"> • Neves, Maria C.; Oliveira, Eugenio (Portugal): "Fuzzy and Connectionist Paradigms in a Multi-Agent Control Architecture for a Mobile Robot"
	<ul style="list-style-type: none"> • Uribe-Gutierrez, Sergio; Martinez-Alfaro, Horacio (Mexico): "An Application of Behavior-Based Architecture for Mobile Robots Design"
	<ul style="list-style-type: none"> • Vu, Toan X.; Stubberud, Allen R. (U.S.A.): "On the Control of Robotic Manipulators at Positions of Singularity"
TUESDAY AUG. 3 4:00 pm – 6:00 pm	Intra-, Extra- and Internet II (Room No. 8)
	<ul style="list-style-type: none"> • Dong, Chun-Lei; Chi, Chi-Hung; Li, Xiang; Deng, Jing (Singapore): "A Layered Media Approach to Video Streaming over the Internet with Caching"
	<ul style="list-style-type: none"> • Li, Xiang; Chi, Chi-Hung; Dong, Chun-Lei; Deng, Jing (Singapore): "Active Information Transformation Framework for Web Proxy"
	<ul style="list-style-type: none"> • Lucas, Wendy T. (U.S.A.): "(Mis) Management of Information on the World Wide Web"
	<ul style="list-style-type: none"> • Maio, Dario; Maltoni, Davide (Italy): "A Secure Protocol for Electronic Commerce based on Fingerprints and Encryption"
	<ul style="list-style-type: none"> • Pakstas, Algirdas (United Kingdom): "Security Aspects and Cost Models of the X-tranet Systems"
	<ul style="list-style-type: none"> • Patel, Ahmed; Gladyshev, Pavel (Ireland): "A World Wide Web Framework for Parallel Computing with Java Applets"
TUESDAY AUG. 3 4:00 pm- 6:00 pm	Fuzzy Systems (Room No. 9)
	<ul style="list-style-type: none"> • Abe, Shigeo (Japan): "Fast Training of a Fuzzy Classifier with Pyramidal Membership Functions"
	<ul style="list-style-type: none"> • Delgado, Myriam; Von Zuben, Fernando; Gomide, Fernando (Brazil): "An Extended Evolutionary Approach Toward Optimal Design of Fuzzy Systems"
	<ul style="list-style-type: none"> • Hetzheim, Hartwig (Germany): "Analysis of Hidden Stochastic Properties in Images or Curves by Fuzzy Measures and Functions and their Fusion by Fuzzy- or Choquet Integrals"
	<ul style="list-style-type: none"> • Huang, Tao-Yuan; Chen, Yung-Yaw (Taiwan, Republic of China): "Construction of a Novel Neuro-Fuzzy Network"
	<ul style="list-style-type: none"> • Lee, Keon-Myung (Republic of Korea): "A Database Summarization Method using Fuzzy Concept Hierarchies and Fuzzy Linguistic Terms"
	<ul style="list-style-type: none"> • Pedrycz, W.; Szymanski, J.; Frimpong, S.; Changirwa, R. (Canada): "Granular Computing as a Basis of System Modelling"
	<ul style="list-style-type: none"> • Pham, Tuan; Wagner, Michael (Australia): "Specification of Fuzzy Systems with Fuzzy Z"
TUESDAY AUG. 3 4:00 pm – 6:00 pm	SCI in Biology and Medicine III (Room No. 10)
	<ul style="list-style-type: none"> • Song, Yoonseon; Ryu, Chang Su; Yoo, Done-Sik; Choi, Sangsup; Sill Moon, Sung; Sohn, Jin-Hun (Republic of Korea): "Preliminary Study of a Brain-Computer Interface"
	<ul style="list-style-type: none"> • Tan, Wai-Yuan; Zheng-zheng, Ye (U.S.A.): "Stochastic Models of HIV Pathogenesis Under HAART and Development of Drug Resistance in HIV-Infected Individuals"
	<ul style="list-style-type: none"> • Tehrani, Fleur T.(U.S.A.): "A Dual Control System for Ventilatory Treatment of Premature Infants"
	<ul style="list-style-type: none"> • Terasawa, Mitsuo; Yoneyama, Tadaaki; Tsukada, Nobu; Nakahara, Toshitaka; Itokawa, Yoshinori (Japan): "The Relationship Between the Learning With Reward and Vitamin B1 in the Nervous Tissues of Rats"
	<ul style="list-style-type: none"> • Wong, Man Leung; Lam, Wai; Leung, Kwong Sak; Cheng, Jack C. Y. (Hong Kong): "Discovering Knowledge from Medical Databases"
	<ul style="list-style-type: none"> • Xin, Lu; Rencheng, Wang; Nianfeng, Yang; Guohui, Xu; Dewen, Jin; Changhua, Huang (Republic of China): "Muscular Force Analysis of Index and Middle Fingers as Performing a Pinch Function"

	<ul style="list-style-type: none"> • Zerbe, Volker*; Marinov, Marin** (* Germany, ** Bulgaria): "An efficient Parallel Implementation of an Heart Field Simulation Algorithm"
TUESDAY AUG. 3 4:00 pm – 6:00 pm	Virtual Universities (Room No. 11)
	<ul style="list-style-type: none"> • Gil, Richard; Martinez de Gil, Marlene (Venezuela): "Telecommunication Proposal For Distributed Testing Process of a Specific Distance Education System: UNA"
	<ul style="list-style-type: none"> • Ishii, H.; Wu, W.; Li, D.; Shimoda, H.; Yoshikawa, H.; Nakagawa, T. (Japan): "Development of a VR-based Experienceable Education System -A Cyber World of Virtual Operator in Virtual Control Room"
	<ul style="list-style-type: none"> • Molero, Jorge; Martinez de Gil, Marlene (Venezuela): "Class Model Proposal for an Student Testing Process of a Distance Education University"
	<ul style="list-style-type: none"> • Wong, P.C. (Hong Kong): "Hong Kong Cyber Campus - An Internet Campus Linking up Universities, Schools, and the Public in Hong Kong"
	<ul style="list-style-type: none"> • Yu, Hong Heather (U.S.A.): "Reinforce the Value of Internet with Novel Multimedia Database Management for Distant Learning and On-line Virtual School"
TUESDAY AUG. 3 4:00 pm – 6:00 pm	Text Retrieval in Web Environments – Invited Session (Room No. 12)
	Organizer: Nieves Brisaboa
	Chair: Nieves Brisaboa
	<ul style="list-style-type: none"> • Brisaboa, Nieves R.; Duran, Maria J.; Lalin, Charo; Lopez, Juan R.; Parama, Jose R.; Penabad, Miguel R.; Places, Angeles S. (Spain): "An Architecture for Virtual Libraries"
	<ul style="list-style-type: none"> • Penabad, Miguel R.; Duran, Maria J.; Lalin, Charo; Lopez, Juan R.; Parama, Jose R.; Places, Angeles S.; Brisaboa, Nieves R. (Spain): "Using Bounded Natural Language to Query Databases on the Web"
	<ul style="list-style-type: none"> • Vaquero, A.; Saenz, F.; Barco, A. (Spain): "Multilingual Electronic Dictionaries for Cross Language IR"
TUESDAY AUG. 3 4:00 pm – 6:00 pm	A Model for Assessment: A Demo – Invited Session (Room No. 13)
	Organizer: Dennis Bialaszewski (U.S.A.)
	Chair: Dennis Bialaszewski (U.S.A.)
	<ul style="list-style-type: none"> • Bialaszewski, Dennis; Pencek, Thomas (U.S.A.): "Integrating the internet and Teamwork across the Curriculum"
	<ul style="list-style-type: none"> • Novitzki, James (U.S.A.): "The MIS Capstone - Working With Industry on an Applied Project"