

September 16-19, 2003

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Universidade Nova de Lisboa-FCT-DEE and UNINOVA-CRI

Aim: The aim of the conference is to bring together researchers and practitioners from the industry and academia and provide them with a platform to report on recent advances and developments in the newly emerging areas of technology, as well as actual and potential applications to industrial and factory automation.

Solicited Papers: Research papers; reporting on new developments in technological sciences. Industry and development papers; reporting on actual developments of technology, products, systems, and solutions. Tutorial and survey papers.

Topics within the scope of the workshop include:

Information Technology in Industrial and Factory Automation: Development Platforms and Frameworks: .NET, J2EE; Programming languages: Java, C#, etc.; Operating Systems; Databases and Web Interfaces; Mobile Computing, Network Computing, Client/Server Computing; Distributed Objects and Components: CORBA, COM, COM+, DCOM, etc.; Groupware.

Industrial and Factory Communication Systems: Real-time Communication and Applications; Formal Description Techniques; Multimedia Communication Support; Distributed application platforms (CORBA, Java/Jini, etc.); Internetworking, Interoperability; Configuration Tools and Network Management; Fieldbus Networks; Cell Networks; High Speed Networks; Wireless Networks; Intranet and Internet Access; Factory Applications and Case Studies.

Real-Time and (Networked) Embedded Systems: Design and Implementation; Environments and Tools; Models of Computation and Formal Methods; Hw/Sw Co-Design; IP Cores and Platforms; Re-configurable Systems; System-on Chip; Network Embedded Systems Technology; Real-Time Executives and Operating Systems; Languages; Case studies.

Intelligent Sensors and Sensor Networks: Design and Implementation; Development Environments and Tools; Hardware/Software; Data Integration and Fusion; Algorithms; Wireless Integrated Networked Sensors; Wideband Networked Sensors; MEMS Sensors; System Architecture; Power Supplies; Communication Modes; Case Studies.

Automated Manufacturing Systems and Development Methodology: Architectures and Operations: FMS, CIM, IMS, ADS, Planning, Scheduling, Reliability, CAD/CAE/CAM, Human Factors, Petri Nets, Simulation, Queuing Networks, Perturbation Analysis, Concurrent Engineering, Rapid Prototyping.

Automation Systems and Control. Discrete and Continuous Manufacturing, Supervisory Control, Industrial Automation, Process Automation, Re-configurable Systems, Distributed Control Systems, Programmable Logic Control, Virtual Reality & Telesensation, Multimedia, Prototyping, Rapid Prototyping.

Computational Intelligence in Industrial and Factory Automation: Expert Systems, Fuzzy Systems, Neural Networks, Genetic Algorithms, Chaos, Artificial Intelligence and Expert Systems, Industrial Applications of Intelligent Systems.

Intelligent Robots & Systems: Machine Vision and Intelligence, Actuators and Motion Control, Multisensor Fusion and Integration, Intelligent Robots and Systems.

Information Technology in Enterprise Integration: Data base technologies, Middleware, Data Mining, Data Warehouses, Decision Support Systems (DSS), Executive Information Systems (EIS), Manufacturing Execution Systems, Enterprise Resource Planning, Supply Chain Management, Enterprise Application Integration, Internet, e-commerce, e-business, etc.

Special session organization: Special sessions can cover topics belonging to a specific track, or multi-track subjects, or novel topics not included in the description of tracks. If you are interested in organizing a special session, please visit <http://www.uninova.pt/etfa2003/>

Tutorials Organization: Tutorials can cover subjects included or related to conference topics. If you are interested in organizing a tutorial, please visit <http://www.uninova.pt/etfa2003/>

Submission of Papers: The working language of the conference is English. Three types of submissions are solicited. Long Papers and Industrial Practice - limited to 8 double column pages. Work-in-Progress papers - limited to 4 double column pages. Prospective authors are invited to visit the conference web site at the following URL:

<http://www.uninova.pt/etfa2003/>

Manuscripts must be submitted electronically in PDF format, according to the instructions contained in the Conference web site.

Paper Acceptance: Each accepted paper must be presented at the conference by one of the authors. The final manuscript must be accompanied by a registration form and a registration fee payment proof. All conference attendees, including authors and session chairpersons, must pay the conference registration fee, and their travel expenses.

Author's Schedule:

Deadline for submission of long papers:

April 30, 2003

Notification of acceptance of long papers:

June 8, 2003

Notification of acceptance of work-in-progress papers and Industry practice:

July 8, 2003

Deadline for submission of work-in-progress papers and Industry practice:

June 15, 2003

Deadline for submission of final manuscripts:

July 8, 2003

FURTHER INFORMATION:

ETFA'03 Conference Secretariat
Universidade Nova de Lisboa - FCT - Dep. Eng. Electrotecnica; 2829-516 Caparica, Portugal
Tel.: +351-212948336 Fax: +351-212948532 email: etfa2003@uninova.pt

<http://www.uninova.pt/etfa2003/>