

## **CALL FOR PAPERS**

**FET'2007**

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**7th IFAC International Conference on  
Fieldbuses and nETworks in industrial and embedded systems**

**November 7-8-9, 2007**

**Toulouse, France**

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**WEB SITE** <http://www.fet2007.org>

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**Sponsored by IFAC Technical Committee on Components  
and Technologies for Control (TC 4.1)**

**Co-Sponsored by IFAC Technical Committee on Networked Control Systems (TC 1.5)**

### **SCOPE**

The FET Conference is the largest IFAC technical event devoted to the context of industrial and embedded networked systems and their applications. Such systems integrate more or less smart sensors, actuators and computing devices which are interconnected through communication means which can be either dedicated or shared between different applications.

Initially, those communication means were wired networks, mainly fieldbuses or specific real time local area networks. Nowadays, the communication means are broadened i-e they include other technologies like wireless technologies, more general real-time local area networks and also internetworking through IP networks. The main application domains are industry automation, embedded systems (such as avionics, trains, ships and automotive ones) and home automation. The purpose of the conference is to provide a forum to share ideas and experiences, in this area of information, communication and cooperation technologies and theirs real-time and dependable applications, between academic researchers, practitioners and service providers, to review current trends and to discuss new research directions.

This new edition will be the seventh. Previous conferences were held in Vienna (Austria) 1995, 1997, in Magdeburg (Germany), 1999, in Nancy (France), 2001, in Aveiro (Portugal), 2003 and in Puebla (Mexico), 2005.

## **FOCUS**

- Distributed systems, Embedded systems, Multimedia systems, Networks, Heterogeneous networks, Internetworking, Network control, Networked Control Systems;
- System integration, Interoperability;
- Real-Time (Hard, Soft), Performances, Fault-Tolerance, Dependability, Security, Performability.

## **MAIN TOPICS**

- Networks: Fieldbuses, Wireless networks, Sensor networks, Industrial networks, IP networks, Satellite, Real-time networks, Services, Protocols, Scheduling, Routing
- Architecture: Layers, Cross-layering, Middleware (Communication, Cooperation), Quality of Service (QoS)
- Applications: Industrial, Robotic, Process control, Production systems, Embedded systems (avionic, train, automotive, ship), Building automation, Hospital, Healthcare systems
- Analysis: Formal modeling, Verification, Evaluation, Validation, Simulation, Links between QoS and application requirements, Tools
- Cases studies: From the specification to the implementation.

## **SUBMISSION OF PAPERS**

Two types of papers will be considered:

- Regular papers which report novel and significant contributions to the fields concerned by the conference.
- Work in progress papers which present recent ideas and on-going works related to the fields of the conference.

Authors are invited to submit electronically regular papers (double column, 6-8 pages) and work in progress papers (double column, not exceeding 4 pages).

The submission of the paper has to be done on the web site : <http://www.fet2007.org>

## **RECOMMENDATIONS FOR AUTHORS**

- There are available at :  
<http://www.ifac-control.org/events/information-for-ifac-authors/>
- Another example in Word format can be uploaded from the web site.

## **AUTHOR SCHEDULE: Important dates**

Extension of the deadline :

- **June 5, 2007:** Submission of regular papers
- **June 5, 2007:** Submission of work in progress papers
- **September 10, 2007:** Notification of acceptance
- **September 28, 2007:** Camera ready version due

## **Copyright conditions**

The material submitted for presentation at an IFAC meeting (Congress, Symposium, Conference, Workshop) must be original, not published or being considered elsewhere. All papers accepted for presentation will appear in the Preprints of the meeting and will be distributed to the participants. Papers duly presented at the Congress, Symposia and Conferences will be archived and offered for sale, in the form of Proceedings, by Elsevier Ltd, Oxford, UK. In the case of Workshops, papers duly presented will be archived by IFAC and may be offered for sale, in the form of Proceedings, by Workshop organizers. The presented papers will be further screened for possible publication in the IFAC Journals (Automatica, Control Engineering Practice, Annual Reviews in Control, Journal of Process Control Engineering Applications of Artificial Intelligence, and Mechatronics), or in IFAC affiliated journals. All papers presented will be recorded as an IFAC Publication.

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