

6<sup>th</sup> IFAC International Conference on  
Fieldbus Systems and their Applications

November 14, 15 ***FeT'2005***



**Benemérita Universidad Autónoma de Puebla, México**

Sponsored by:



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**Monday, November 14<sup>th</sup>                      Technical Program                      Edificio Carolino (4 sur 104)**

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**8:30H - 9:30H                      Registration – Salón Barroco**

**9:30H - 9:45H                      Opening Session - Salón Barroco**

**9:45H - 10:30H                      Plenary Session I - Salón Barroco**

*Chair: Dietmar Dietrich (Austria)*

Bandwidth allocation scheme in fieldbuses

*Prof. Seung Ho Hong, School of Electrical Engineering and Computer Science, Hanyang University, Korea*

***Coffee Break***

**11:00H - 12:30H                      Parallel Session 1 - Safety, dependability and security I – Salón Candiles**

*Chair: Christian Fraboul (France)*

Integration of Scalable Safety and Security Actions in IEC 61499 Control Applications

*Christian Schwab, Marcus Tangermann, Arndt Lüder*

A Fieldbus for Safety-related Real-time Operation Supporting Forward Recovery from Redundant Nodes

*Martin Skambraks, Peter Neumann*

Dependability evaluation of real-time applications distributed on TDMA-based networks

*François Simonot, Françoise Simonot-Lion, YeQiong Song*

**11:00H - 12:30H                      Parallel Session 2 - Real-Time and Distributed Systems I – Salón Verde**

*Chair: Guy Juanolet (France)*

Real-time procedures in distributed systems

*M. Calha, V. Silva, J.A. Fonseca*

Real Time Computing in a High Performance Cluster

*Miguel Pérez, L. Almeida, H. Pérez*

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**14:30H - 16:00H                      Parallel Session 3 – Building Automation I – Salón Candiles**

*Chair: Klaus Kabitsch (Germany)*

Current Challenges in Abstracting Data Points

*W. Burgstaller, S. Soucek, P. Palensky*

The Artificial Recognition System (ARS): New Concepts for Building Automation  
*Gerhard Pratl, Brigitte Lorenz, Dietmar Dietrich*

A Simulation and Visualization System for Sensor and Actuator Data Generation  
*Harald Hareter, Gerhard Pratl, Dietmar Bruckner*

**14:30H - 16:00H            Parallel Session 4 - Networked Control Systems – Salón Verde**

*Chair: Héctor Benitez Pérez (México)*

Analysis of Networked Control System with Packet Drops Governed by (m,k)-firm Constraint  
*Ning JIA, Ye-Qiong Song*

A schedulability analysis of an IEC61499 control application  
*Mohamed Khalgui, Xavier Rebeuf, Françoise Simonot-Lion*

Fundamental considerations for implementing control systems on a CAN network  
*Guy Juanole, Gerard Mouney, Christophe Calmettes, Marek Peca*

**Coffee Break**

**16:30H - 18:00H            Parallel Session 5 – Applications I – Salón Candiles**

*Chair: Thilo Sauter (Austria)*

Development of a Standardized Fieldbus-based Greenhouse Climate Control  
*Olga Plaksina, Thomas Rausch*

Communications Requirements for Autonomous Mobile Robots: Analysis and Examples  
*Valter Silva, J.A. Fonseca, R. Maia, U.Nunes*

Communication of Trackside Infrastructure and Moving Trains - Critical Demands of the Data Transmission  
*Rainer Hornstein, Martin Pottendorfer, Herbert Schweinzer*

**16:30H - 18:00H            Parallel Session 6 – Automation Networks and Real-Time Ethernet – Salón Verde**

*Chair: Peter Neumann (Germany)*

Probabilistic Timing Analysis of the h-BEB Collision Resolution Algorithm  
*Ricardo Moraes, Francisco Vasques*

Exploiting fuzzy traffic smoothing to improve the Real-Time Behavior of Ethernet Switches  
*L. Lo Bello, F. Sgrò, G.A. Kaczyński, L. Di Stefano, O. Mirabella*

RTL-TEP: A Ethernet Protocol based on TDMA  
*José A. Alegre, Josep V. Sala, Sergio Pérez, Joan Vila*

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**Tuesday, November 15th**

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**9:00H - 9:45H            Plenary Session II – Salón Barroco**

*Chair: Jean-Pierre Thomesse (France)*

Key Technologies for Wireless Networking in the Next Decade  
*Prof. Ian F. Akyildiz, Broadband and Wireless Networking Lab, School of Electrical and Computer Engineering, Georgia Institute of Technology, U.S.A.*

**Coffee Break**

**10:15H - 11:45H            Parallel Session 7 - Wireless Networks and Mobility – Salón Candiles**

*Chair: Ian Akyildiz (USA)*

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