

6th IFAC International Conference on
Fieldbus Systems and their Applications

November 14, 15

FeT'2005



Benemérita Universidad Autónoma de Puebla, México

Sponsored by:



Monday, November 14th	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 Juanole (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

LUNCH

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 Khargui, 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

Tuesday, November 15th

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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