

ECRTS05

Final RTC05 workshop programme

1st Intl. Workshop on Real-Time and Control. RTC 2005. Chair: Karl-Erik Arzen.

- 09:00 Bus to Workshop venue departs from Hotel Saratoga.
- 09:30 - 10:00 Registration.
- 10:00 - 11:30 Session 1: Real-Time Control.
The ARTIST2 roadmap on real-time control.
K.-E. Årzén. Lund University. Sweden.
Workshop discussion on research directions in real-time control.
- 11:30 - 12:00 Coffee break.
- 12:00 - 13:30 Session 2: Co-Design Tools.
A survey of co-design tools for control, computing, and communication.
D. Henriksson, O. Redell, J. El-Khoury, M. Törngren, K.-E. Årzén, Lund Univ. and KTH Sweden.
Workshop discussion on needs and requirements on co-design tool.
- 13:30 - 15:00 Lunch break.
- 15:00 - 16:45 Session 3: Submitted Papers Session. Chair: Jan Broenink.
Key aspects for co-designing real-time and control systems.
M. Velasco, P. Martí, R. Castañé, R. Villa and J. M. Fuertes, UPV Barcelona, Spain.
Platooning test and demonstration platform for analyzing embedded real-time algorithms for control applications.
W. Kubinger, J. Kogler, H. Hemetsberger, R. Isaacs and J. Langer, Austrian Research Center and Upper Austria Univ. of Applied Sciences, Austria.
Canonical approach to derive and enforce real-time conditions.
D. Zöbel, Univ Koblenz-Landau, Germany.
Stability Analysis of Feedback Controlled Reservation-based CPU Scheduler.
I. Song, S. Kim, and F. Karray, Univ of Waterloo, Canada.
Simulation Environment for Investigating the Impacts of Time-Triggered Communication on a Distributed Vehicle Dynamics Control System.
A. Albert, B. Pietsch and F. Voetz, Robert Bosch GmbH and Univ of Hanover, Germany.
- 16:45 - 17:15 Coffee break.
- 17:15 - 18:15 Control of RT Computing Systems.
Invited talk: Control-based approaches to CPU resource management
Giuseppe Lipari, Giorgio Buttazzo, Scuola Superiore Sant'Anna, and Univ. Pavia, Italy.
- 19:00 - Bus departs from *Edifici Jovellanos* back to Hotel Saratoga.