ECRTS05.
Final Conference programme

Wednesday, July 6
09:15 – 09:45  Registration at Fundació “la Caixa”.
09:30 – 09:45  Welcome and Opening Remarks.
  E. Bini, G. Buttazzo, G. Lipari; Scuola Superiore Sant’Anna and University of Pavia, Italy.
  Energy-Aware Memory Firewalling for QoS-Sensitive Applications.
  A. Eswaran, R. Rajkumar; Carnegie Mellon University, USA.
  Energy Aware Non-preemptive Scheduling for Hard Real-time Systems.
  R. Jejurikar, R. Gupta; Univ. of California at Irvine and Univ. of California at San Diego. USA.
11:15 – 11:45  Coffee break.
  A WCET-Oriented Static Branch Prediction Scheme for Real-time Systems.
  F. Bodin, I. Puaut; IRISA, France.
  J. Staschulat, S. Schlecker, R. Ernst; University of Braunschweig, Germany.
  Cache Contents Selection for Statically-locked Instruction Caches: an Algorithm Comparison.
  A. Campoy, I. Puaut, A. Ivars, J. Mataix; Technical University of Valencia, Spain and IRISA, France.
13:15 – 14:45  Lunch break
  Restaurant Rodeo Grill.
  Embedded Software for Mobile Terminals.
  Johan Eker; Ericsson Mobile Platforms AB.
15:45 – 16:45  Work-In-Progress Session 1. Chair: Isabelle Puaut.
  (See WIP program)
16:45 – 17:15  WIP Poster Session 1 and coffee break.
17:15 – 18:15  Session 3 Programming Languages, Modeling and Validation Techniques. Chair: Luís Miguel Pinho.
  M. Bordin, T. Vardanega; University of Padua, Italy.
  Component-Based Approach to Run-Time Kernel Specification and Verification.
  G. Næsæter, K. Lundqvist; Mälardalen University, Sweden and MIT, USA.
19:30   Welcome Cocktail.
  Bus departs from Fundació “la Caixa”.

Thursday, July 7
  H. Cho, B. Ravindran, E. Douglas Jensen; Virginia Tech and The MITRE Corporation, USA.
  U. Steinberg, J. Wolter, H. Härtig; Technical University of Dresden, Germany.
  Non-Preemptive Interrupt Scheduling for Safe Reuse of Legacy Drivers in Real-Time Systems.
  T. Fachinetti, G. Buttazzo, M. Marinoni, G. Guidi; University of Pavia, Italy.
S. Fischmeister, K. Winkler; University of Pennsylvania, USA and University of Salzburg, Austria.

11:15 – 11:45  Coffee break.
A Fully Polynomial-Time Approximation Scheme for Feasibility Analysis in Static-Priority Systems with Arbitrary Relative Deadlines.
N. Fisher, S. Baruah; University of North Carolina at Chapel Hill, USA.
Fast and Tight Response-Times for Tasks with Offsets.
J. Mäki-Turja, M. Nolin; Mälardalen University, Sweden.
The Limited-Preemption Uniprocessor Scheduling of Sporadic Task Systems.
S. Baruah; University of North Carolina at Chapel Hill, USA.

13:15 – 14:45  Lunch break.
Restaurant Rodeo Grill.

D. Thomas, S. Gopalakrishnan, M. Caccamo, C-H Lee; Univ. of Illinois at Urbana-Champaign, USA.
Scheduling Tasks with Markov-Chain Based Constraints.
D. Liu, X. Hu, M. Lemmon, Q. Ling; University of Notre Dame, USA.
Real-time Scheduling for Data Stream Management Systems.
S. Schmidt, T. Legler, D. Schaller, W. Lehner; Dresden University of Technology, Germany.
T. Crenshaw, A. Tirumala, S. Hoke, M. Caccamo; University of Illinois at Urbana-Champaign, USA.

16:45 – 17:15  Coffee break.
Overwhelming Complexity.
Jan Lindblad; ENEA AB. Sweden.

19:30 – Excursion and Banquet.
Bus departs from Fundació “la Caixa”.

Friday, July 8

10:00 – 11:00  Session 7a: Multiprocessor Systems. Chair: Michael Gonzalez-Harbour.
Bounding Worst-Case Access Times in Modern Multiprocessor Systems.
J. Stohr, Al. von Bülow, G. Färber; Technical University of Munich, Germany.
J. H. Anderson, V. Bud, U. Maheswari C. Devi; University of North Carolina at Chapel Hill, USA.

11:00 – 11:30  Coffee break.
Improved Schedulability Analysis of EDF on Multiprocessor Platforms.
M. Bertogna, M. Cirinei, G. Lipari; Scuola Superiore Sant'Anna, Italy.
Task Assignment on Uniform Heterogeneous Multiprocessors.
S. Funk, S. Baruah; Univ. of Georgia at Athens and Univ. of North Carolina at Chapel Hill, USA.

12:30 – 13:00  Keynote Address. Chair: Gerhard Fohler.
Real-Time and Embedded Systems: Research Opportunities in the IST Thematic Priority of the 6FP.
Mercè Griera I Fisa, Project Officer, Embedded Systems Unit of the IST Programme, European Commission - DG Information Society.

13:00 – 14:30  Lunch break.
14:30 –  15:30  Work-In-Progress Session 2. Chair: Isabelle Puaut.
(see WIP program)

15:30 –  16:00  WIP Poster Session 2 and coffee break.

16:00 –  17:30  Session 8: Applications of Real-time Computing. Chair: Jean-Dominique Decotignie.

A Similarity-aware Multiversion Concurrency Control and Updating Algorithm for Up-to-date Snapshots of Data.
T. Gustafsson, H. Hallqvist, J. Hansson; Linköping University, Sweden.

A Performance and Schedulability Analysis of an Autonomous Mobile Robot.
A. Qadi, S. Goddard, J. Huang, S. Farritor; University of Nebraska at Lincoln, USA.

Applying Static WCET Analysis to Automotive Communication Software.
S. Byhlin, A. Ermedahl, J. Gustafsson, Björn Lisper; Mälardalen University, Sweden.

17:30  Closing remarks.