ECRTS05

Final "Work in Progress" Programme

WIP Session 1: Wednesday, July 6th. 15:45 – 16:45

Industrial requirements in development of embedded real-time systems - interviews with senior designers.
K. Hänninen, J. Mäki-Turja and M. Nolin. Mälardalen University, Sweden.

Market enabler for retargetable COTS components in embedded domain.
S. Robert, A. Radermacher, S. Gérard, F. Terrier, A. Fouillart, V. Watine, O. Hachet, V. Seignole. CEA Saclay and Thales Communications, France.

Probabilistic analysis and predictions of component-based real-time systems.
A. Möller, M Nolin, I. Peake and H. W. Schmidt Mälardalen Univ., Sweden and Monash Univ. Australia.

Extended global dual-priority algorithm for multiprocessor scheduling in hard real-time systems.
J. M. Banús, A. Arenas and J. Labarta. Universitat Politècnica de Catalunya, Spain.

Towards best-case response times of real-time tasks under fixed-priority scheduling with deferred preemption.
R. J. Bril and W.F.J. Verhaegh. Technische Univ. Eindoven and Philips Research Labs, Eindhoven, The Netherlands.

On the design and schedulability analysis of distributed object-oriented real-time systems.
A. Gherbi and F. Khendek. Concordia University, Montreal, Canada.

How to solve allocation problems with constraint programming.
P. Hladik, H. Cambazard, A. Deplanche and N. Jussien. IRCCyn and Ecole des Mines de Nantes, Nantes, France.

MetaC and its use for automated source code instrumentation of C programs for real-time analysis.
T. Maier-Komor, A. von Bülow and G. Färber. Technische Universität München, Germany.

A two-tiered architecture for real-time communications in large-scale sensor networks: research challenges.
A. Koubaa and M. Alves. Instituto Politécnico do Porto, Porto, Portugal.

WIP Session 2: Friday, July 8th. 14:30 -15:30

The impact of scheduler overhead on the performance of mobile, embedded real-time systems.
H. Wu, B. Ravindran and E. Douglas Jensen. Virginia Tech and The MITRE Corporation, USA.

Implementation of real-time communication capabilities on RTLinux-GPL systems.
J. V. Sala, J. Vila, S. Pérez and J.A. Alegre. Polytechnical University of Valencia, Spain.

Towards a characterization of real-time streaming systems.
M.A. Weffers-Albu, J.J. Lukkieb abd P.D.V.v.d. Stok Technische Univ.Eindoven and Philips Research Labs, Eindhoven, The Netherlands.

Insights on real time systems architecture modelling for a software engineering viewpoint.
F. Loiret and D. Servat. CEA and INRIA, France.

Efficient system-level testing of embedded real-time software.
D. Sundmark, A. Petterson, S. Eldh, M. Ekman and H. Thane. Mälardalen Univ. and Bombardier Transportation, Sweden.

Dealing with real-time aspects within the Polychronous framework.
A. Gamatié, T. Gautier, P. Le Guernic and J. P. Talpin. IRISA, Rennes, France.

CyNC - towards a general tool for performance analysis of complex distributed real-time systems.
H. Schioler, J. Jessen, J. Dalsgaard Nielsen and K. G. Larsen. Aalborg University, Denmark.

Memory demanding periodic real-time applications on FPGA computers.
K. Danne University of Paderborn, Germany.