Programme: ARTES Real-Time Graduate Student Conference 2001

Thursday March 8

9.30-10.00	Registration and Coffee	
10.00-10.20	**Introduction**	Hans Hansson, Karl-Erik Årzén
10.20-11.00	**Session: Computer Control**	**Chair**: Klas Nilsson
	AIDA II Progress Report: Towards a Co-simulation Environment for Computer Control Systems	Jad El-Khoury, KTH
	Analyzing the Effects of Missed Deadlines in Control Systems	Anton Cervin, LTH
11.00-11.15	Break	
11.15-12.15	**Session: Testing & Debugging**	**Chair**: Bengt Asker
	Simulation-Based Debugging and Profiling of Soft Real-Time Applications	Lars Albertsson, SICS
	Methods for Increasing Software Testability	Birgitta Lindström, HIS
	Test Case Generation for Testing of Timeliness	Robert Nilsson, HIS
12.30-13.30	**Lunch**, Kårhuset	
13.30-14.30	**Plenary**	
	CTechnologies & Anoto: An Embedded System Case Study	Petter Ericson Chief Scientific Officer, Anoto AB
14.30-15.30	**Session: Scheduling**	**Chair**: Hans Hansson
	Fixed-Priority Preemptive Multiprocessor Scheduling: To Partition or not to Partition	Björn Andersson, Chalmers
	Solving Embedded System Scheduling Problems using Constraint Programming	Cecilia Ekelin, Chalmers
	Memory and Time-Efficient Schedulability Analysis of Task Sets with Stochastic Execution Time	Sorin Manolache, LiU
15.30-16.00	Coffee	
16.00-17.00	**Session**	**Chair**: Karl-Erik Årzén
	On Energy Reduction in Hard Real-Time Systems with Dynamic Voltage Supply Processors	Flavius Grubian, LTH
	Minimizing System Modification in an Incremental Design Approach	Paul Pop, LiU
	Minimization of Execution Scenarios in Static Priority Preemptive Scheduled Real-Time Systems	Anders Pettersson, MDH
19.00-...	**Dinner**, Restaurant Stäket	

Friday March 9

8.45-9.45	**Plenary**	
	Future Mobile Phones - Design Challenges from a Real-Time System's Perspective	Fredrik Dahlgren, Technical Manager Ericsson Mobile Communications
9.45-10.00	ARTES Patent Award Ceremony	
10.00-10.30	Coffee	
10.30-11.30	**Session**	**Chair**: Karl-Erik Årzén
	Deterministic Java in Tiny Embedded Systems	Anders Nilsson, LTH
	Designing Agents for Systems with Adjustable Autonomy	Paul Scerri, LiU
	On recovery and consistency preservation in distributed real-time database systems	Sanny Gustavsson, HIS
11.30-11.40	Break	
11.40-12.20	**Session: Communication**	**Chair**: Magnus Jonsson
	Switched Real-Time Communication for Industrial Applications	Hoai Hoang, HH
	Fibre-Ribbon Pipeline Ring Network with Distributed Global Deadline Scheduling	Carl Bergenhem, HH
12.30-13.30	**Lunch**, Kårhuset	
13.30-14.30	**Session: Real-Time Programming**	**Chair**: Klas Nilsson
	Modeling and Analysis of Message-Queues in Multi-Tasking Systems	Thomas Nolte, MDH
	Applications of lock and wait-free shared data structures to real-time systems	Håkan Sundell, Chalmers
	Non-blocking synchronization for soft realtime applications	Zhang Yi, Chalmers