## Day 1 - Tuesday, May 17, 2022

**Room Beta, U Building of MDU**
**All times in CEST**

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| 9:30 - 9:40 | Welcome and Message from General Chairs | | |
| 9:40 - 9:45 | Message from Technical Program Chairs | | |
| 9:45 - 10:00 | Welcome message from Pro Vice Chancellor, Mälardalen University | | |
| 10:05 - 11:00 | Keynote 1 | | Session Chair: Saad Mubeen |
| | | **A look into the future: AI and 6G**<br>Aneta Vulgarakis (Senior Research Manager in Artificial Intelligence, Ericsson Sweden) | |
| 11:00 - 11:30 | Coffee/Tea Break | | |
| 11:30 - 12:30 | Session 1 | Organic Computing and Self Organization | Session Chair: Nan Guan |
| | | **Improving an Artificial Hormone System's Time Bounds Using Task Allocation Signals**<br>Eric Hutter (Goethe University Frankfurt)<br>Robin Lakos (Goethe University Frankfurt)<br>Uwe Brinkschulte (Goethe University Frankfurt) | |
| | | **Evaluation of Conditional Tasks in an Artificial DNA System**<br>Philipp Homann (Goethe-Universität Frankfurt am Main)<br>Mathias Pacher (Goethe-Universität Frankfurt am Main)<br>Uwe Brinkschulte (Goethe-Universität Frankfurt am Main) | |
| 12:30 - 13:30 | Lunch at Restaurant Rosenhill (U Building of MDU) | | |
| 13:30 - 15:00 | Session 2 | Memory Contention | Session Chair: Christian Dietrich |
| | | **Assessing Intel's memory bandwidth allocation for resource limitation in real-time systems**<br>Giorgio Farina (Federico II, University of Naples)<br>Marcello Cinque (Federico II, University of Naples)<br>Gautam Gala (TUK, Technical University of Kaiserslautern)<br>Gerhard Fohler (TUK, Technical University of Kaiserslautern) | |
| | | **Using Reservoir Sampling and Parallelization to Improve Dynamic Binary Instrumentation**<br>Brandon Upp (Indiana University Purdue University Indianapolis)<br>Sai Pavan Kumar Meruga (Indiana University Purdue University Indianapolis)<br>James Hill (Indiana University Purdue University Indianapolis) | |
| | | **Denial-of-Service Attacks on Shared Resources in Intel's Integrated CPU-GPU Platforms**<br>Michael Bechtel (University of Kansas)<br>Heechul Yun (The University of Kansas) | |
| 15:00 - 15:30 | Coffee/Tea Break | | |
| 15:30 - 16:30 | Session 3 | Machine Learning for Embedded Systems | Session Chair: Masoud Daneshtalab |
| | | **LRP-based Policy Pruning and Distillation of Reinforcement Learning Agents for Embedded Systems**<br>Rui Xu (Nanjing University of Science and Technology)<br>Siyu Luan (Umea University)<br>Zonghua Gu (Umea University)<br>Qingling Zhao (Nanjing University of Science and Technology) | |
| | | **CLAIRE: Enabling Continual Learning for Real-time Autonomous Driving with a Dual-head Architecture**<br>Hao Zhang (North Carolina State University)<br>Frank Mueller (North Carolina State University) | |
| 16:30 - 18:00 | Break | | |
| 18:00 - 20:00 | Reception | | |

## Day 2 - Wednesday, May 18, 2022

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|---|---|---|---|
| 10:00 - 10:30 | Coffee/Tea and Mingle | | |
| 10:30 - 12:00 | Session 4 | Scheduling and Message Passing | Session Chair: Inés Alvarez Vadillo |
| | | **Differentiating Network Flows for Priority-Aware Scheduling of Incoming Packets in Real-Time IoT Systems**<br>Christoph Blumschein (TU Berlin)<br>Ilja Behnke (TU Berlin)<br>Lauritz Thamsen (University of Glasgow)<br>Odej Kao (TU Berlin) | |
| | | **Utilising Kronecker Algebra to Detect Unexpected Behaviour in Distributed Systems**<br>Patrick Denzler (Vienna University of Technology)<br>Johann Blieberger (Vienna University of Technology)<br>Wolfgang Kastner (Vienna University of Technology) | |
| | | **Security-Cognizant Real-Time Scheduling**<br>Sanjoy Baruah (Washington University in St. Louis) | |
| 12:00 - 13:30 | Lunch at Restaurant Rosenhill (U Building of MDU) | | |
| 13:30 - 14:30 | Session 5 | Outstanding Papers | Session Chair: Mohammad Ashjaei |
| | | **PSIC: Priority-Strict Multi-Core IRQ Processing**<br>Malte Bargholz (Leibniz University Hanover)<br>Christian Dietrich (Technische Universität Hamburg)<br>Daniel Lohmann (Leibniz University Hanover) | |
| | | **Optimal Order Assignment Algorithms for Single-Rate Time-Driven AFAP Cyclic Executives**<br>Reinder J. Bril (Eindhoven University of Technology (TU/e)) | |
| 14:30 - 15:00 | Coffee/Tea Break | | |
| 15:00 - 16:00 | Keynote 2 | | Session Chair: Mikael Sjödin |
| | | **Time and Space Partitioning on Multicore+Accelerator Platforms**<br>James Anderson (W.R. Kenan Distinguished Professor, University of North Carolina at Chapel HIll) | |
| 16:00 - 16:30 | Awards and Closing Remarks | | |
| 16:30 - 18:00 | Break | | |
| 18:00 - 21:00 | Banquet | | |