

	Monday (24.02.25)	Tuesday	Wednesday	Thursday	Friday (28.02.25)
09:00 - 09:45	Chadlia Jerad: Intro to the seminar, goals and structure. Quick attendee intro	Lothar Thiele: Framing the Discussion: Timeliness vs. Accuracy	Claire Pagetti: Framing the Discussion: Predictability vs. Adaptability	Hokeun Kim: Framing the Discussion: Security vs. Accessibility	Chadlia Jerad: Organizing hands-on sessions 5 Parallel hands-on sessions:
9:45 - 10:30	Edward Lee: Framing the Discussion: Consistency vs. availability	Position Stmnts / Short talks Martin Schoeberl: Benchmarking Worst-Case Performance of Real-Time Systems Chadlia Jerad: Time-predicability levels Katharina Sedow: fail-operational systems in the automotive domain Jérôme Hugues: necessary conditions for model engineering to ensure system correctness	Position Stmnts & short talks: Eric Tutu Tchao: Case Study: Perspectives of Fundamental Trade-offs in Reactive Systems for Illegal Mining Activities Detection and Smart Agriculture in Resource-Constrained Environments Samarjit Chakraborty: Towards Formalizing Tradeoffs in Reactive Systems Design	Short Talks (15 min): Marc Geilen: A component model and modelling language for trade-offs and multi-objective optimization Eugene Yip: Utility-Based System Design: Making sense of trade-offs	1) Lingua Franca: Erling Jellum 2) Timed SCCharts: Alexander Schulz-Rosengarten & Reinhard von Hanxleden 3) QRML (Software for multi-objective optimization): Marc Geilen 4) HipHop: Manuel Serrano 5) Rebeca: Marjan Sirjani
10:30 - 11:00	Coffee				
11:00 - 12:15	Short Talks (15 min): Andres Goens: Latency/Consistency Tradeoffs in Cache-Coherent Shared-Memory Systems Marjan Sirjani: Consistency versus Availability in Redundant Controllers Shaokai Lin: CAL Theorem in Reactive Systems	Talks: Alexander Schulz-Rosengarten & Reinhard von Hanxleden: Timing Tradeoffs in Timed Automata with Dynamic Ticks Jonathan Sprinkle (30 min): Can control barrier functions keep automated vehicles safe in live freeway traffic? or Controlling 100 Connected Automated Vehicles at Scale for Traffic Wave Dampening on Freeways	Short Talks (15 min): Arthur Clavière: Assurance of Neural Network-based Safety-Critical Avionics with Formal Methods Manuel Serrano: The Functional, The Imperative, and the Sudoku Alain Girault: memory footprint of parallel schedules of dataflow graphs, tradeoffs between memory and execution time	Short Talks (15 min): Grzegorz Bazydlo: Modeling Reconfigurable CPS Using UML Anupam Chattopadhyay: Security-Efficiency Trade-offs for Intelligent Systems Andres Barrilado: functional safety in semi-conductors Marcus Rossel: Formally-verified system design as foundation for Trustworthy Reactive Systems	Hands-on sessions 4 Parallel hands-on sessions: 1) Lingua Franca: Erling Jellum 2) Timed SCCharts: Alexander Schulz-Rosengarten & Reinhard von Hanxleden 3) QRML (Software for multi-objective optimization): Marc Geilen 4) HipHop: Manuel Serrano
12:15 - 14:00	Lunch (with assigned seats)	Lunch (with assigned seats)	Lunch (with assigned seats)	Lunch (with assigned seats)	Lunch
14:00 - 14:45	Claire Pagetti: Organizing group work Group work 1) Distributed music challenge: Animator: Edward A. Lee / Scribe: Andres Goens 2) Can AI be used in critical Systems? Animator: Claire Pagetti / Scribe: Jérôme Hugues	Jeronimo Castrillon (15 min): Reactive systems: Optimizations (including accuracy trade-offs) and opportunities in domain-specific computing Jeronimo Castrillon: Organizing group work Group work: 1) Benchmarks for RT systems. Animator: Martin Schoeberl 2) Tradeoff of timeliness and accuracy. Animator: Jeronimo Castrillon 3) Orchestration/coordination languages vs reactive languages (similar, complementary?). Animator: Manuel Serrano		Jan Reineke: Synergies between [Research on] Timing Predictability and Microarchitectural Security Report back from group work of Tuesday Software teasers: Marjan Sirjani: Rebeca Erling Jellum: Lingua Franca	
14:00 - 15:30			Social event		Departures

	Monday (24.02.25)	Tuesday	Wednesday	Thursday	Friday (28.02.25)
15:30 - 16:00		Coffee		Coffee	
16:00-17:30	<p>Position Stmts / Short talks:</p> <p>Erling Jellum: A Motivating Application: Distributed Music</p> <p>Arpan Gujarati: Can we make COTS CPS ultra-reliable?</p> <p>Einar Broch Johnsen: Declarative Lifecycle Management in Digital Twins</p>	<p>Short Talks</p> <p>Victor Jegu: Airbus topics of interest</p> <p>Selma Saidi: Design Tradeoffs in Collaborative Autonomous Systems</p> <p>Grzegorz Bazydlo: Modeling Reconfigurable CPS Using UML (if time otherwise Thursday Morning)</p> <p>Johannes Oster: DeepSeek discussion on the Digital Humanism Zoom</p>		<p>Alexander Schulz-Rosengarten & Reinhard von Hanxleden: Timed SCCharts</p> <p>Marc Geilen: QRML (Software for multi-objective optimization)</p> <p>Manuel Serrano: HipHop</p> <p>Plenary: Wrap-up, presentations, ...</p>	
17:30-18:00	Plenary/reporting	Johannes Oster: DeepSeek			
18:00 - 20:00	Dinner				
20:00 - ...	Social, ping pong, billiards, wine cellar, ...				