2 WPDRTS • Workshop on Parallel and Distributed Real-Time Systems

Workshop Description:
WPDRTS is a forum for the presentation and discussion of approaches, research findings, and experiences in the domain of large-scale parallel and distributed real-time systems. Both research and development of relevant technologies are of interest, as well as the applications built using such technologies.

Topics of interest include but are not limited to:

- General Topics: Adaptive and reflective real-time systems, Applications, benchmarks, and tools, Architectures and hardware/software co-design, Distributed real-time and embedded middleware, Fault-tolerance, security, and robustness, Real-time operating systems, Real-time and embedded databases, Soft real-time and mixed-critical systems, Algorithms and Applications, QoS based resource management and real-time scheduling, Programming languages and environments, Specification, modeling, and analysis of real-time systems, Certification of resource managers, Real-time communication protocols and architecture.
- Formal methods for distributed real-time systems: Verification and validation, Formal techniques for performance evaluation, Formal modeling in systems design, Scheduling and optimization, Schedulability analysis, Case studies.
- Automotive systems: network integration in the automotive domain, design space exploration with respect to realtime issues, analysis techniques for automotive specific application domains, bus systems or operating systems.
- Certification of Dynamic and Adaptive Systems: intelligent instrumentation, statistical analysis, to defining, testing, and analysis of operating boundaries and boundedness.
- Wireless sensor networks: Communication protocols, high-level operating system and programming abstractions, middleware and service architectures, configuration management, testbeds, in-network information processing, security, novel applications and experience reports, resource discovery and management, QoS issues, disconnected and weakly-connected WSNs, tools and methodologies forbuilding WSNs.

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