Prof. Jens-Peter Redlich

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System Architecture



Expertise

Many IT systems are (for good reasons) technologically, administratively, or spatially seperate. It is the goal of middleware to integrate these systems, without merging them too itricately. Experience shows that this is not a trivial task. The chair of Systems Architecture investigates key issues that come up repeatedly: reliability/dependability, data security (and privacy), consitency of replicated data, performance and scalability. Autonomous subsystems should be able to auto-configurate but also support coordination by an external operator. Currently, home automation is our premier application domain for studying the aforementioned research questions and to evaluate proposed solutions in practice.

Topics / Trends

Cloud Computing
Vehicle Assistant Systems & Navigation Systems
Internet of Things
IT & Cyber Security
Communication(s) Systems
Logistic Systems & Processes

Industries

Information & Communication Technology
Aerospace
Machinery & Plant Engineering
Mobility & Logistics

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