



Roman Obermaisser

# Event-Triggered and Time-Triggered Control Paradigms

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Event-Triggered and Time-Triggered Control Paradigms presents a valuable survey about existing architectures for safety-critical applications and discusses the issues that must be considered when moving from a federated to an integrated architecture. The book focuses on one key topic - the amalgamation of the event-triggered and the time-triggered control paradigm into a coherent integrated architecture. The architecture provides for the integration of independent distributed application subsystems by introducing multi-criticality nodes and virtual networks of known temporal properties. The feasibility and the tangible advantages of this new architecture are demonstrated with practical examples taken from the automotive industry. Event-Triggered and Time-Triggered Control Paradigms offers significant insights into the architecture and design of integrated embedded systems, both at the conceptual and at the practical level.

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