



Dynamic Reconfiguration in Real-Time Systems: Energy, Performance, and Thermal Perspectives (Embedded Systems)

Weixun Wang, Prabhat Mishra, Sanjay Ranka

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Given the widespread use of real-time multitasking systems, there are tremendous optimization opportunities if reconfigurable computing can be effectively incorporated while maintaining performance and other design constraints of typical applications. The focus of this book is to describe the dynamic reconfiguration techniques that can be safely used in real-time systems. This book provides comprehensive approaches by considering synergistic effects of computation, communication as well as storage together to significantly improve overall performance, power, energy and temperature.

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