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Advancing Embedded Systems and Real-Time Communications with Emerging Technologies

Seppo Virtanen



Part of the Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series

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Embedded systems and real-time computing can be useful tools for a variety of applications. Further research developments in this field can assist in promoting the future development of these technologies for various applications.

Advancing Embedded Systems and Real-Time Communications with Emerging Technologies discusses embedded systems, communication system engineering, and real-time systems in an integrated manner. This research book includes advancements in the fields of computer science, computer engineering, and telecommunication engineering in regard to how they are used in embedded and real-time systems for communications purposes. With its practical and theoretical research, this book is an essential reference for academicians, students, researchers, practitioners, and IT professionals.

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Seppo Virtanen received his BSc in applied physics, MSc in electronics and information technology (1998), and DSc (Tech.) in communication systems (2004) from the University of Turku (Finland). Since 2009, he has been Adjunct Professor of Embedded Communication Systems at University of Turku. He is Editor-in-Chief of the *International Journal of Embedded and Real-time Communication Systems* and a senior member of the IEEE. His published academic research has been in the areas of hardware acceleration for protocol processing, protocol processor architectures, and hardware/software codesign methodologies for embedded communication systems. In the past few years, his research interests have been focused on platforms capable of handling the processing of communication protocols, DSP routines, and software defined radio algorithms and applications in parallel on a parameterizable hardware platform, as well as information security related topics in the embedded systems domain.



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