



Numerical Methods in Real-Time and Embedded Systems

Guest Editors:

Prof. Dr. Mihai-Victor Micea

Prof. Dr. Alex Doboli

Prof. Dr. Daniel-Ioan Curiac

Dr. Cristina Sorina Stângaciu

Deadline for manuscript
submissions:

closed (31 March 2023)

Message from the Guest Editors

The continuous growth of emerging technologies such as Internet of things and cyber-physical systems presents a great opportunity to reanalyze embedded and real-time systems models and further develop them in order to include new emerging paradigms like real-time Internet of things, mixed criticality systems, cyber-physical systems and so on, and on the other hand to mathematically analyze further these systems in terms of feasibility, resource and energy efficiency and cyber security. Because of their special requirements in terms of safety criticality, resource constraints in terms of computation power, memory, and energy, the design and development of deterministic, predictable, safe, and secure real-time and embedded systems is still a challenge.

As real-time and embedded systems have become essential to our lives, from home use, medical care, and industrial control to autonomous vehicles, space and military applications, topics like real-time scheduling and resource management, real-time communications, real-time signal-processing and acquisitions become increasingly challenging and important in the context of the current scientific advancements.





Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and
Informatics, De Montfort
University, The Gateway,
Leicester LE1 9BH, UK

Message from the Editor-in-Chief

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Mathematics Editorial Office
MDPI, St. Alban-Anlage 66
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