

Special Issue

Numerical Methods in Real-Time and Embedded Systems

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.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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