

Special Issue

Real-Time Systems: Architectures, Software and Applications

Message from the Guest Editors

As the world is growing technologically, real-time systems have received global attention as an ever-increasing tidal wave of information technology, including the IoT (Internet of Things), fog/edge/cloud computing, mechatronics and robotics, ubiquitous and distributed systems, etc. However, the challenge of keeping the design, development and implementation of real-time systems reliable and efficient, and at the same time maintaining low costs, energy efficiency and high safety, is becoming more difficult. All applications should be designed, scheduled and executed according to appropriate strategies such that their deadline, energy, safety and dependence requirements are satisfied even in the worst case. At the same time, new computing scenarios such as fog/edge/cloud computing, intelligent Internet of things and automatic driving continue to appear and grow, bringing new opportunities and challenges to the traditional computing mode and system software development. Therefore, it is important and urgent to analyze the current advances and trends of new designs, developments and applications of real-time systems.

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