

Special Issue

Software Reliability: Status and Perspectives

Message from the Guest Editors

Software reliability has attracted an increasing amount of attention from the academic society and industrial communities in recent decades, especially against the background of the Industry 4.0 era, where software systems become more and more complex and are playing an increasingly important role in both the industrial world and our daily lives—for example, cyberphysical systems (CPS), Internet of Things (IoT) systems, real-time systems, and machine learning-based systems. The failures or requirement violations of these systems may lead to disruptive or even catastrophic consequences, such as significant economic damage or the loss of human lives. Therefore, it is essential to maintain software reliability in the face of faults and failures, and as a result, the topic of software reliability has been extensively studied in recent decades. Nevertheless, software reliability keeps posing challenging research questions due to the complexity, heterogeneity, and distributivity of software systems.

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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