Special Issue

Fault Localization Techniques for Software Systems

Message from the Guest Editor

Detecting faults in software is known as fault localization. Modern software is larger and more complex than ever before, and is a major component of any computer system. There is a strong demand for techniques that can guide software developers to the locations of faults in a program with minimal human intervention. Therefore, researchers are invited to submit their research on this topic to this Special Issue. Potential topics may include, but are not limited to:

- Strategies for effective and efficient program debugging, fault localization, and repair;
- Defect prediction;
- Debugging and repair of multi-{core, process, or threaded};
- Integrating debugging and repair with other software development and maintenance activities;
- Empirical studies, benchmarking, and industrial best practices;
- Applications and tools;
- Visualizations for fault localization;
- Deep learning-based fault localization;
- Artificial Intelligence techniques and fault localization;
- Debugging pervasive, ubiquitous, service-oriented, cloud computing collaborative, distributed, embedded, real-time, high-performance, highly dependable, and intelligent multimedia systems.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

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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