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Introduction to the Special Issue on Software Reliability Engineering

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Introduction to the Special Issue on Special Issue on Software Reliability Engineering

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Abstract

This Special Issue brings together novel research results in the Software Reliability Engineering area. This is the result of a collective effort from authors and reviewers and includes 23 manuscripts selected from 66 high quality submissions from 27 different countries.

Keywords:
Reliability engineering, diagnose and detection, empirical studies, formal analysis, prediction, testing and auditing

1. Introduction

Research on engineering reliable software is a broad area that encompasses techniques and tools for assessing, predicting, and improving the reliability, safety, and security of software products. Topics of relevance include, but are not limited to: reliability, availability, and safety of software systems; verification and validation; software security; dependability, fault tolerance, survivability, and resilience of software systems; systems (hardware + software) reliability engineering; services reliability engineering (cloud services, problem reporting services, etc.); engineering reliable adaptive, self-aware and self-* systems; metrics and measurements, estimation, prediction of quality/reliability; supporting tools and automation; and software at large scales and software on small devices.

We organized this Special Issue on Software Reliability Engineering to solicit novel results in these important and closely related research areas. As a result, we received 66 high quality manuscripts from 27 different countries. All the submissions went trough a rigorous review process, resulting in the

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