



Call for papers:

Quality & Reliability Engineering: Trends and Future Directions
Special issue

Journal of Universal Computer Science

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Background

Look at virtually any industry – automotive, avionics, oil, telecommunications, banking, semiconductors, pharmaceuticals – all these are highly dependent on computing for their basic functioning. Science and Technology demand high-performance hardware and high-quality software for making improvements and breakthroughs.

Like machinery replaced craftsmanship in the industrial revolution, computers and intelligent parts are quickly pushing their mechanical counterparts out of the market. Contemporary examples of highly complex hardware/ software systems can be found in projects undertaken by Defense, Telecommunications and a variety of other industries.

The demand for complex hardware/software systems has increased more rapidly than the ability to design, implement, test and maintain them. When the requirements for and dependencies on computers increase, the possibility of crises from computer failures also increases. Needless to say, the reliability of computer systems has become a major concern for our society. Recent literature is replete with horror stories of projects gone awry, generally as a result of problems traced to software.

It makes us wonder whether software is reliable at all, whether we should use software in safety-critical embedded applications. With processors and software permeating safety critical embedded world, the reliability of software is simply a matter of life and death. Are we embedding potential disasters while we embed software into systems?

Paper Submission and Evaluation Procedure

Authors are invited to submit original and unpublished papers in areas of reliability, quality, safety and risk analysis. *Only manuscripts clearly related to software systems and computer science topics will be accepted since J.UCS's focus is only on computer science.*

The papers for J.UCS (<http://www.jucs.org/>) should be suitable for experts in the respective fields, but also accessible to wider academic audience. Furthermore, it is expected that authors cite relevant articles from the *Journal of Universal Computer Science* in their papers. Only original research contributions toward the mentioned topics will be considered. (see <http://www.jucs.org/jucsinfo/aims>).

Topics

The Special Issue is devoted to reliability, quality, testing, safety and risk analysis of computing and software systems. It offers an opportunity for researchers and practitioners to identify new promising research directions as well as to publish recent advances in this area. The scope of this issue includes, but is not limited, to the following topics:

- Reliability & Maintenance Model
- Quality
- Safety
- Risk Analysis
- Testing
- System Reliability
- Software Reliability
- Software Security
- Vulnerability
- Multi-Criteria Decision Making (MCDM)

Important Dates

- Submission of full papers: **January 31, 2018**
- First decision notification: **April 30, 2018**
- Revised submission deadline: **June 30, 2018**
- Final decision notification: **July 31, 2018**
- Expected Publication Date: **To be Announced**

Only high quality original papers will be selected after reviewing process. Authors should submit their papers via e-mail to jucs.special.issue.gre@gmail.com. The subject of the e-mail should be **[JUCS-Quality & Reliability Engineering: Trends and Future Directions]**. Submissions will be reviewed by at least 3 reviewers following a double-blind review process.

All submission must be written in English and follow the JUCS's special issues guidelines:
http://www.jucs.org/ujs/jucs/info/submissions/style_guide.html. The length of the manuscript may not exceed 20 pages.

Looking forward to your contributions.

Prof. Alok Mishra, Atilim University, Ankara, Turkey

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Prof. Uday Kumar, Luleå University of Technology (LTU), Luleå, SWEDEN

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Board of Reviewers:

All submissions to this special issue will be refereed by three experts. The board of referees includes:

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