JOURNAL OF SYSTEMS AND SOFTWARE

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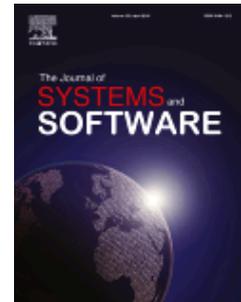
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Methods and tools for software requirements, design, architecture, verification and validation, testing, maintenance and evolution Agile, model-driven, service-oriented, open source and global software development Approaches for mobile, multiprocessing, real-time, distributed, cloud-based, dependable and virtualized systems Human factors and management concerns of software development Artificial Intelligence, data analytics and big data applied in software engineering Metrics and evaluation of software development resources DevOps, continuous integration, build and test automation Business and economic aspects of software development processes Software Engineering education

The journal welcomes reports of practical experience for all of these topics, as well as replication studies and studies with negative results. The journal appreciates the submission of systematic literature reviews, mapping studies and meta-analyses. However, these should report interesting and important results, rather than merely providing statistics on publication year, venue etc.

Stories from the Front is exclusively focused on work that increases knowledge transfer from industry to research. It accepts: (1) experience reports, showing what actually happens in practice (contrasted to theory), illustrating the challenges (and pain) that practitioners face, detailing how research results fair in realistic settings, and presenting lessons learned; (2) problem descriptions with significant details on the context, underlying causes and explicit symptoms of the problem, the technical and organizational impact of the problem, as well as relevant research questions for researchers to investigate, and finally (3) tool-focused papers discussing the usability, scalability, engineering, and other challenges faced when implementing a research concept. Submissions to this track should include at least one co-author from industry and be within scope of the journal's above topics of interest. In addition, submissions will be evaluated through industry-appropriate criteria for their merit in reporting useful industrial experience; not in terms of academic novelty of research results.

New Ideas and Trends Papers
New ideas, especially those related to new research trends, emerge quickly. To accommodate timely dissemination thereof, JSS introduces the New Ideas and Trends Paper (NITP). NITPs should focus on the systems/software engineering aspects of new emerging areas, including: the internet of things, big data, cloud computing, software ecosystems, cyber-physical systems, green/sustainable systems, continuous software engineering, crowdsourcing, and the like. We distinguish two types of NITPs: A

short paper that discusses a single contribution to a specific new trend or a new idea. A long paper that provides a survey of a specific trend, as well as a (possibly speculative) outline of a solution. We anticipate revisiting specific new trends periodically, for instance through reflection or progress reports.

New Ideas and Trend Papers warrant speedy publication.

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To submit a proposal for a special issue, please contact the Special Issues Editor Prof. W.K. Chan

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Researchers, Scholars and Managers in Software Engineering, Computer Science, Information Systems, Computer Programming, Computer Hardware, and Management Information Systems.

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New Trends and Ideas Papers
New ideas, especially those related to new research trends, emerge quickly. To accommodate timely dissemination thereof, JSS introduces the New Ideas and Trends Paper (NITP). NITPs should focus on the systems/software engineering aspects of new emerging areas, including: the internet of things, big data, cloud computing, software ecosystems, cyber-physical systems, green/sustainable systems, continuous software engineering, crowdsourcing, and the like. We distinguish two types of NITPs:A short paper that discusses a single contribution to a specific new trend or a new idea. The contribution should be wide-ranging, and not be confined to for example a specific technique for a small problem within one of the new trends. The novelty of the contribution should be crystal clear from the motivation letter that accompanies the submission. Such a short paper is limited to 3000 words (approx. 5 pages, a figure counts as 200 words). Because of the size and novelty of the contribution, a proper validation usually is not part of such a paper. Authors are encouraged to submit an extended version, one that does contain a proper validation of the ideas put forth, at a later stage. A long paper that provides a survey of a specific trend, as well as a (possibly speculative) outline of a solution.

We anticipate revisiting specific new trends periodically, for instance through reflection or progress reports.

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