

Journal of Internet Services and Applications (JISA)

Thematic Series on Automated and Verifiable Internet Services and Applications Development

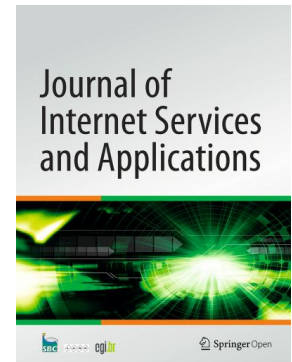
During the last three decades, automation in internet services and applications development has gone mainstream. Software development teams strive to automate as much of the software development activities as possible. Automation helps, in fact, to reduce development time and cost, as well as to concentrate knowledge by bringing quality into every step of the development process. Realizing high-quality internet services and applications requires producing software that is efficient, error-free, cost-effective, and that satisfies customer requirements. Thus, one of the most crucial factors impacting software quality concerns not only the automation of the development process but also the ability to verify the outcomes of each process activity and the goodness of the resulting software product as well.

This JISA Thematic Series aims at new automated software development methods and techniques, compositional verification theories, integration architectures, flexible and dynamic composition, and automated planning mechanisms.

We seek contributions at various levels: from foundational aspects to concrete application experiments; from modeling to verification and analysis; from deployment to execution; from (industrial) experience papers and case-studies, to tool demonstrations and visionary papers; papers describing novel research contributions and innovative applications are of particular interest.

Topics include, but are not limited to the following:

- Specification and design of services and applications
- Architecture and implementation of services and applications
- Services and applications verification models
- Formal methods for automated development of services and applications
- Model-driven development of services and applications
- Correct-by-construction development of services and applications
- Automated synthesis of software integration code
- Automated development and integration of services and applications
- Automated and verifiable software development
- Automated planning methods for software development
- Non-functional properties of services and applications
- Software quality assurance for automated software development
- Compositional theories for software development and its (dynamic) verification



- Dynamic verification and testing
- Service-oriented and component-based software development
- Machine learning techniques for the development of services and applications

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<https://jisajournal.springeropen.com/articles>

Submission instructions

Prior to submission, authors should carefully read over the Instructions for Authors, which are located at <https://jisajournal.springeropen.com/submission-guidelines>. Prospective authors should submit an electronic copy of their complete manuscript through the SpringerOpen submission system at <https://www.editorialmanager.com/jisa/> according to the submission schedule. Upon submitting, authors should choose the correct Thematic Series in the “sections” box by selecting “**TS: Automated and Verifiable ISA Development**”. In addition, they should specify the manuscript as a submission to the “**Automated and Verifiable Internet Services and Applications Development**” in the cover letter. If you have any difficulty in paying the author processing charges (APC), please request a waiver from the editors.

Important dates

- **Paper submissions:** October 1st, 2019
- **First response to authors:** December 22nd, 2019

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