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Call for papers for the

18th International Conference on System Design Languages of the SDL Forum Society (SDL Forum 2017)

Model-driven Engineering for Future Internet

October 9-11, 2017

Budapest, Hungary

<http://www.sd12017.hte.hu/call-for-papers>

The SDL Forum is held every 2 years and is one of the most important open events in the calendar for anyone from the academia or industry involved in system design languages and modelling technologies. It is a prime conference event for the discussion of the evolution and use of these techniques. The most recent innovations, trends, experiences and concerns in the field are discussed and presented. It is a forum to address system and software modelling, specification, and analysis of distributed systems, embedded systems, communication systems, and real-time systems.

The SDL Forum Society that runs the Forum is a non-profit organization established by language users and tool providers to promote the Specification and Description Language (SDL), Message Sequence Charts (MSC) and related system design languages (including but not limited to UML, ASN.1, TTCN, SysML and URN), to provide and disseminate information on the development and use of the languages, to support education on the languages and to plan and organize the "SDL Forum" series and events to promote the languages.

Objectives

In the last few years, we have witnessed a new level of convergence in the networked digital ecosystem. A large variety of embedded devices are becoming connected. The ever growing number of heterogeneous devices connected demands highly available, scalable, secure and mobile services from the telecommunications and computer networks side. The complexity of network services on the other side is increasing at the same time. There are several emerging standards in this field, followed by numerous implementations. This results in a time pressure on both standard implementations and the product development cycles. The specification, design, validation, configuration, deployment and maintenance of such products are complex tasks. Thus, high quality modeling of these new systems with system design languages is essential.

The SDL Forum addresses issues related to the modelling and analysis of reactive systems, distributed systems and real-time and complex systems such as telecommunications, automotive, and aerospace applications. The conference programme will include: presentations from invited speakers, tutorials, presentation of research papers, presentation of industrial experiences, tool demonstrations and posters. It will present excellent networking opportunities.

The intended audience includes users of modelling techniques in industrial, research and standardization contexts, as well as tool vendors and language researchers.

Topics

The aim of the Forum is to anticipate and influence future trends and to focus on issues that are important to its expected delegates. Authors are therefore invited to submit papers on topics related to System Design Languages including the following non-exclusive list of topics:

- **Model-driven engineering for Future Internet:** Internet of Things (IoT), including IoT services, intelligent and co-operative transport systems (ITS, c-ITS), 5th generation wireless networks, cloud environments, network services, software defined networks (SDN), and their language support
- **Evolution of development languages:** domain-specific language profiles, modular language design, language extensions, semantics and evaluation, real-time aspects and performance, methodology for application, education and promotion
- **Model-driven development:** systems engineering and model transformation, use case methods, system architecture exploration, analysis and simulation of models, reuse approaches, systematic and automated testing, and model-based testing (MBT)
- **Industrial application reports:** industrial usage reports, standardization activities, tool support and frameworks, domain-specific applicability (such as automotive, aerospace, offshore, control)

Submission policy

Submissions should be previously unpublished, written in English, no longer than 16 pages for full papers and 8 pages for short papers (including the illustrations and bibliography) and using the LNCS style as described on <http://www.springer.com/computer/lncs?SGWID=0-164-6-793341-0>. Papers accepted or under review for other events are ineligible for submission to SDL2017. Electronic submission in pdf-format, using EasyChair is mandatory, submission page: <http://easychair.org/conferences/?conf=sdlforum2017>. Submissions in the following categories are solicited:

- Full papers describing original, unpublished results (max. 16 pages in LNCS style)
- Short papers, describing work in progress (max. 8 pages in LNCS style)
- Posters and exhibits (submit poster and/or 400 word abstract)

The SDL Forum Program Committee will evaluate the technical contribution of each submission as well as its accessibility to the audience. Papers will be judged on significance, originality, substance, correctness, and clarity. As in previous editions, the SDL2017 proceedings will be published in the Springer LNCS series. Camera-ready versions of accepted papers have to adhere to the LNCS_format. LaTeX2e is recommended, preferably even at the initial submission stage to avoid later conversions.

Accepted papers must be presented at SDL2017 by one of the authors.

Important Dates

Abstract submission	May 28, 2017
Paper submission	June 4, 2017
Notification of acceptance	July 2, 2017
Poster and tool demonstration proposal	July 16, 2017
Camera-ready version	July 16, 2017
SDL Forum	October 9-11, 2017