



## Call for Papers

### SDL 2013

16<sup>th</sup> International System Design Languages Forum

### Model-driven dependability engineering

June 26-28, 2013

Montréal, Canada

<http://sdl-forum.org/Events/SDL16.htm>

The SDL Forum is held every 2 years and is one of the most important open events in the calendar for anyone from industry and academia involved in System Design Languages and modelling technologies. It is a primary conference for discussion of the evolution and use of these languages. The most recent innovations, trends, experiences and concerns in the field are discussed and presented. System and software modelling, specification, and analysis of distributed systems, embedded systems, communication systems, and real-time systems are addressed.

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

We have come to depend heavily on software systems in virtually every sector of human activity, including telecommunications, aerospace, automotive, process automation, and this trend is further increasing. These software systems are increasingly complex because of ever growing demands for functionalities, features and improved user experience. The specification, design, validation, configuration, deployment and maintenance of such systems are accordingly complex tasks, to which the dependability requirements add yet another dimension. The *dependability* of software systems, which is a multi-attribute quality that includes reliability, availability and security, needs to be taken into account in the development process so that they meet the target requirements. Model-driven dependability engineering aims at developing dependable systems following the model driven paradigm.

### 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:

- **Dependability (availability and reliability) engineering, approaches and standards:** model based approaches for dependability, dependability analysis models and evaluation, open middleware services for dependability, implementations and compliance to availability standards, design and validation of configurations, design and validation of upgrade campaigns, standard-based highly-available applications and case studies, tool support for highly-available application development, deployment and management.
- **Industrial application reports:** industrial usage reports, standardization activities, tool support and frameworks, domain-specific applicability (such as telecommunications, aerospace, automotive, control, etc.). Such reports should focus on what is effective (and ineffective) in applying a technique preferably backed up by some measurements. A report should not just describe an implementation, though new application areas are of interest.
- **System engineering models:** semantics of system models, refinement of system designs into hardware/software implementations, integration of system and software design models, non-functional aspects (such as performance, quality of service, real-time aspects, security, etc.) in system models, multi-core models.
- **Model-driven development:** analysis and transformation of models, reuse approaches, verification and validation of models, systematic testing based on and applied to models.
- **Evolution of development languages:** domain-specific language profiles especially for dependability, modular language design, language extensions, semantics and evaluation, methodology for application.

The conference programme will include:

- Presentations from invited speakers
- Presentations of research papers
- Tool demonstrations and posters
- Tutorials
- Presentation of industrial experiences
- Networking opportunities

## Submission policy

Submissions should be previously unpublished, written in English, no longer than 16 pages (including the illustrations and bibliography) and using the LNCS style as described on <http://www.springer.com/lncs>. Papers accepted or under review for other events are ineligible for submission to SDL2013.

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)

*Important:* Electronic submission using <http://www.easychair.org/conferences/?conf=sdl2013> in PDF format, is mandatory. Please refer to the conference homepage for more information.

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.

Accepted papers must be presented at SDL2013 by one of the authors. As in previous editions, the SDL2013 proceedings will be published in the Springer LNCS series.



Publishers of the proceedings for:

[SDL2011](#) - [LNCS7083](#); [SDL2009](#) - [LNCS5719](#);  
[SDL2007](#) - [LNCS4745](#); [SDL2005](#) - [LNCS3530](#).

## Important Dates (tentative)

Authors should submit an abstract as soon as possible.

- Abstract submission: February 15<sup>th</sup>, 2013
- Paper submission deadline: February 22<sup>nd</sup>, 2013
- Notification of acceptance: March 22<sup>nd</sup>, 2013
- Camera-ready version deadline: April 02<sup>nd</sup>, 2013
- Poster and exhibit proposals: May 15<sup>th</sup>, 2013
- SDL Forum: June 26<sup>th</sup> – 28<sup>th</sup>, 2013

## Organization

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Ferhat Khendek	Concordia University, Canada
Maria Toeroe	Ericsson, Canada

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Maria Toeroe	Ericsson, Canada

Reinhard Gotzhein	University of Kaiserslautern, Germany (Chairman of SDL Forum Society)
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