Forum on specification & Design Languages

FDL is a well-established international forum to exchange experiences and promote new trends in the application of languages, their associated design methods, and tools for the design of electronic systems. Electronic systems of interest to FDL include (but are not limited to) those that are used in Internet of Things (IoT), Cyber-Physical Systems (CPS), mixed criticality embedded systems, embedded systems for high-performance computing, automated driving and driver assistance, real-time systems, reconfigurable and secure computing.

FDL stimulates scientific and controversial discussions within and in-between scientific topics as described below. The program structure includes original research sessions, tutorials, panels, and technical discussions. "Wild and Crazy Ideas" and work in progress are welcome.

We welcome authors to submit manuscripts on topics including, but not limited to:

- Languages and formalisms in the design, test, verification, and simulation of electronic systems.
- Requirements and property specifications, models of computations, automata, networks, model- and component-based design.
- Platform modeling and abstraction, and system-level design languages.
- Synchronous and functional languages for reactive and concurrent systems.
- System design involving modern approaches such as machine learning and its verification, as well as modern computing architectures such as energy-efficient and high-performance computing, accelerators including GPUs and FPGAs, and IoT applications.
- Languages and compilers for multi/many-core and heterogeneous architectures.
- Formal methods and languages for model development and verification
- Languages in model-based design of intelligent systems and machine learning
- High-level hardware and software synthesis, virtual prototyping, and design space exploration.

Keynotes: David Broman | KTH Royal Institute of Technology, Stephen Edwards | Columbia University, Marc Pouzet | École Normale Supérieure

Submissions:

We invite **full research papers**, for oral presentation, which cover novel and complete research work supported by experimental results. We also invite **short papers**, for interactive presentations/posters, which may include "wild and crazy ideas", work in progress, case studies or industrial experience reports.

Authors should submit papers in double column, IEEE format as PDF through the submission system. A full research paper has a maximum of 8 pages, short papers may have up to 4 pages. Submitted papers must be anonymous (double blind), must describe original unpublished work, and must not be under consideration for publication elsewhere. Full research papers may be accepted as short papers.

Call for Special Sessions:

Special Sessions should focus on a topic which is of particular interest to the FDL audience. Special Sessions consist of two to four invited talks. Speakers are requested to either submit a one page abstract of their presentation, or to submit a short or full paper that goes through the regular review and publication process.

Potential organizers of a Special Session must submit a brief proposal (no more than two pages) which describes the topic, the intended audience, as well as a list of possible speakers to fdl2019@easychair.org.

Publications:

Conference proceedings will be published in electronic form with an ISSN and an ISBN number and made available on IEEE Xplore.

In addition, an edited collection of extended versions of selected best papers will be published as a book by Springer.

Accepted papers must be presented by one of the authors. A full registration for each paper is required prior to the final paper version deadline.

Important Deadlines (AoE):

Special Sessions:	Mar 22, 2019
Abstract Deadline:	~~Apr 19, 2019~~
Extended Deadline:	May 03, 2019
Paper Deadline:	~~Apr 26, 2019~~
Extended Deadline:	May 10, 2019
Author Notification:	~~Jun 21, 2019~~
Extended Deadline:	June 28, 2019
Final Version:	Jul 19, 2019

General Chair: Tom J Kazmierski | Univ. of Southampton
Program Chair: Reinhard von Hanxleden | Kiel Univ.
Program Co-Chair and Local Chair: Terrence Mak | Univ. of Southampton
Special Session Chair: Daniel Grosse | Univ. of Bremen
Finance Chair: Franco Fummi | Univ. of Verona
Panel/Tutorial Chair: Carna Zivkovic | TU Kaiserslautern
Publication Chair: Enrico Fraccaroli | Univ. of Verona
Web Chair: Florenc Demrozi | Univ. of Verona