Forum on specification & Design Languages

13 – 15 September 2023 | Turin, Italy

The 26th Forum on specification and Design Languages (FDL) is an international event where academics and industrials exchange their experiences, advances, and new trends related to languages, tools, and techniques for developing software and hardware. Targeted systems encompass cyber-physical systems, distributed systems, real-time systems, embedded systems, mechatronics, IoT, and reactive systems.
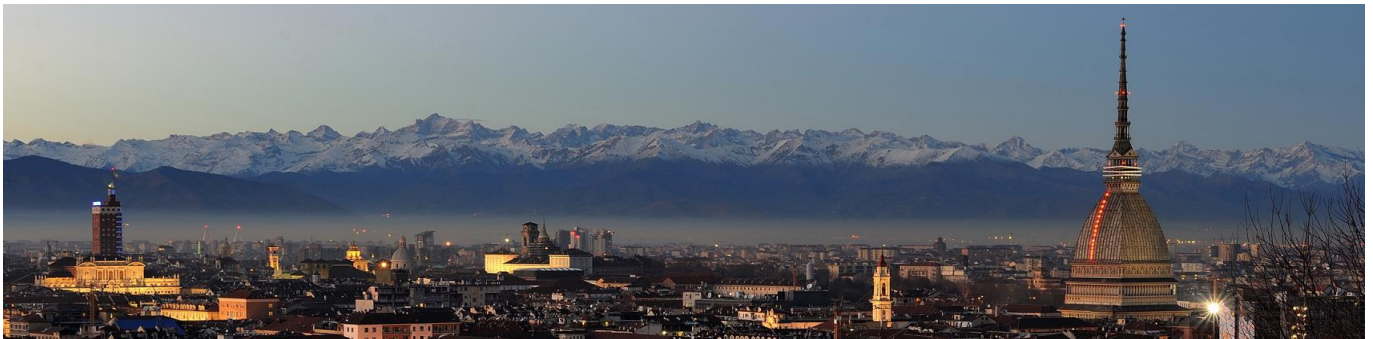
FDL stimulates scientific and controversial discussions within and between scientific topics at different maturity levels. FDL is based on four non-limiting scientific pillars. Cross-fertilization between them, e.g., in the context of System Engineering, is of great interest.

Language: Domain-specific languages for software, execution platforms, allocations, environment, contracts, abstractions, and refinements are of interest, together with the associated design methods, frameworks, and tools.

Simulation: innovative simulation techniques, virtual prototypes, digital twins, collaborative simulation, hybrid simulations, or runtime abstraction/refinement are of interest, with special attention on the efficiency and correctness of simulations and their underlying tools and frameworks.

Semantics: formal definitions, compilers, interpreters, typing, abstraction/refinement, are of interest, together with the underlying specification frameworks or new approaches for their specification, modeling, and model transformation.

Verification and Analysis: innovative static analysis, testing, debugging, model checking, machine learning-based analysis, or design space exploration are of interest, together with the underlying models, tools and frameworks.

Submissions:

We solicit submissions of **research papers (8 pages)**, **wild-and-crazy-idea papers (4 pages),** and **project dissemination papers (8 pages)**, for oral presentation and publication in the formal proceedings. Research papers cover original research supported by experiments or theoretical results. We also solicit **Ph.D. Forum** and **Work-in-Progress submissions (2 pages)** with poster presentations. Authors should submit papers in double column, IEEE format as PDF through the online submission system.

Call for Special Sessions:

A **special session** consists of a proposed topic of particular interest to the FDL audience. They consist of two to four invited talks. Speakers in a session are requested to submit either a one-page abstract or a full research 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)** that describes the topic, intended audience, and a list of possible speakers.

Publications:

Research, wild-and-crazy idea, special session, and project dissemination papers will be submitted for inclusion into **IEEE Xplore** subject to meeting IEEE Xplore's scope and quality requirements.

Other contributions (Ph.D. forum and Work-in-Progress papers) will be distributed during the conference, but are not counted as formal publications and can therefore be extended and submitted elsewhere.

For the past three years, extended versions of selected papers have also been published as a special issue of the ACM Transactions on Embedded Computing Systems (TECS).

General Chair: Sara Vinco | Politecnico di Torino
Program Chair: David Broman | KTH Royal Institute of Technology
Special Session Chair: Reinhard von Hanxleden | Kiel University
Ph.D. Forum Co-Chair: Michele Lora | University of Verona
Ph.D. Forum Co-Chair: Frank Oppenheimer | OFFIS
Work in Progress Chair: Christoph Grimm | TU Kaiserslautern
Finance Chair: Franco Fummi | University of Verona
Publication Chair: Hokeun Kim | Hanyang University
Tutorial Chair: Michael Mendler | Bamberg University
Publicity Chair: Christian Pilato | Politecnico di Milano
Multi-Partner Projects Chair: Christian Pilato | Politecnico di Milano
Web Chair: Nicola Dall'Ora | University of Verona
Local arrangements Chair: Francesco Ponzio | Politecnico di Torino

**Important Deadlines
(23:59 Anywhere on Earth):**

Special Sessions:	March 16, 2023
Paper Deadline:	**May 10, 2023 extended**
WiP Deadline:	July 15, 2023
PhD Forum Deadline:	July 15, 2023
Author notification:	June 8, 2023
Conditional acceptance:	June 8, 2023
Final acceptance:	July 6, 2023
Camera ready:	July 13, 2023

Website: www.fdl-conference.com | Contact: fdl2023@easychair.org