



IWST 2025: International Workshop on Smalltalk Technologies

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Abstract

The *International Workshop on Smalltalk Technologies (IWST)* is traditionally organised within the *European Smalltalk User Group (ESUG)* conference. Its goal is to create a forum for sharing contributions and experiences on building or using technologies related to Smalltalk and associated products and technologies. IWST welcomes papers on any aspect of Smalltalk, from both theoretical and practical perspectives, including research and industrial papers. IWST 2025 has received 16 submissions that passed through a 2-round reviewing process. Authors of all submissions have been invited to present their work as a factor in the evaluation process. The dedicated review process led to a significant improvement in the weaker contributions. Finally, 15 papers were accepted for publication in the *IWST 2025 Proceedings*.

Keywords

EUSG: European Smalltalk User Group, IWST: International Workshop on Smalltalk Technologies

IWST 2025: International Workshop on Smalltalk Technologies, Gdansk, Poland; July 1st-4th, 2025

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1. Preface

This volume contains papers presented at *IWST 2025, the International Workshop on Smalltalk Technologies*, which was held in Gdansk, Poland, from July 1st to 4th, 2025.

IWST 2025 continues the rich tradition of a successful series of events co-located with the *European Smalltalk User Group (ESUG)* conferences, focused on contributions and experiences in building and using Smalltalk Technologies. It aims to gather developers and users of Smalltalk-related technologies around the presentation, discussion, and dissemination of the latest scientific and practical achievements in research or industry. The workshop welcomes position papers, papers describing work in progress, tool demonstration papers, technical and industrial reports, and papers designed to provoke debate and inspire future collaborations and contributions.

IWST 2025 has received 16 submissions that have been reviewed and selected by an international program committee. All submissions have been presented as part of the contribution evaluation process. Evaluation has been further done based on the opinion of at least three reviewers in a 2-round reviewing process: the first round before, and the second one after the workshop presentations. After the second review round, 15 papers were accepted for publication in the IWST 2025 Proceedings.

Evaluation has been conducted according to several criteria. Among these criteria, we included two award criteria: quality and significance of the scientific contribution, and the significance and innovativeness of the emerging idea. After all, in both categories, the three best contributions received an award (Section 2.1) and a symbolic prize sponsored by *Lam Research Corporation*.

We are grateful to all PC members (Section 3.2) for submitting careful and timely critiques on the papers, as well as guidelines for improvements that guided authors towards higher quality and final acceptance. Our special thanks are also addressed to the ESUG board for co-locating and co-organising IWST with the ESUG conference, while we all together thank the *Gdansk University of Technology, Faculty of Electronics, Telecommunications and Informatics* for hosting and organising both events. Finally, a special thanks goes to the *Lam Research Corporation* for sponsoring the prizes for the papers awarded all over the years.

2. Workshop Program

The IWST 2025 workshop accepted 10 full papers and 5 short paper. The workshop program consisted of six technical sessions split into two days. Three full papers and three most promising ideas were awarded.

2.1. Awarded papers

We congratulate the winners of the first, second, and third prizes in both categories:

I Best paper

- (1) Integrating Executable Requirements in Prototyping by *Yann Le Goff Pierre Laborde, Éric Le Pors, Mickaël Kerboeuf and Alain Plantec*,
- (2) Clean Blocks at the Opal Compiler by *Nahuel Palumbo and Marcus Denker*, and
- (3) Package-Aware Approach for Repository-Level Code Completion in Pharo by *Omar AbdelKader, Stéphane Ducasse, Oleksandr Zaitsev, Romain Robbes and Guillermo Polito*.

II The most promising idea

- (1) Static Escape Analysis in Pharo: Towards Minimizing Object Allocations by *Faouzi Mokhefi, Stéphane Ducasse, Pablo Tesone, and Luc Fabresse*,
- (2) FASTTypeScript metamodel generation using FAST traits and TreeSitter project by *Aless Hosry and Benoit Verhaeghe*, and
- (3) Migrating Katalon Studio Tests to Playwright with Model Driven Engineering by *Nicolas Hlad and Benoit Verhaeghe*.

3. Workshop organization

The papers have been reviewed by an international *Program Committee (PC)* and selected by PC chairs.

3.1. Program chairs

Steven Costiou, Inria Lille, France,
Guillermo Polito, Inria Lille, France, and
Gordana Rakić, University of Novi Sad, Serbia

3.2. Program committee

Vincent Blondeau, Lifeware, Switzerland,
Marcus Denker, Inria Lille, France,
Aless Hosry, Berger-Levrault, France
Matteo Marra, Nokia Bell Labs, Belgium
Javier Pimás, Universidad de Buenos Aires, Argentina
Jean Privat, University of Quebec in Montreal, Canada,
Larisa Safina, Inria Lille, France,
Ronie Salgado, Universidad de Chile, Chile
Juan Pablo Sandoval Alcocer, Pontificia Universidad Católica de Chile, Chile
Imen Sayar, Inria Lille, France,
Elena Somova, Paisii Hilendarski University of Plovdiv, Bulgaria
Melinda Tóth, Eotvos Lorand University, Hungary
Vincent Verbeque, ENSTA Bretagne, France
Benoît Verhaeghe, Berger-Levrault, France, and
Oleksandr Zaytsev, Cirad, UMR SENS, France

3.3. Sponsoring

ESUG: European Smalltalk User Group (organisation), and
Lam Research Corporation (awards)