

ECOOP Workshop Post-Proceedings

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ABSTRACT This volume contains selected technical papers and abstracts presented in the workshops, which took place at the 34th European Conference on Programming, ECOOP 2025, held in Bergen, Norway, June 30th-July 4th 2025: ICOOLPS 2025 – Implementation, Compilation, Optimization of Object-Oriented Languages, Programs and Systems (2nd July), FTfJP 2025 – Formal Techniques for Judicious Programming, PLF+PLAID 2025 – Theory and Practice of Decentralized and Local-First Software (3rd July), PLSS 2025 – Programming Language Standardization and Specification, VORTEX 2025 – Verification and Monitoring at Runtime Execution and DEBT 2025 – Third Workshop on Future Debugging Techniques (4th July).

KEYWORDS Programming Languages, Software development, Systems, Applications.

The main conference ECOOP 2025 together with the workshops attracted 135 registered participants, with about 110 of them participating in one or more workshops. The workshops featured keynotes as well as 35 scientific contributions. This volume here presents invited abstracts of the keynotes and revised selected papers, preceded by a short preface from the respective editors, and the workshop report for PLSS by the organizers. The contributed article for VORTEX by Saumya Shankar, Thierry Jéron, Prisha Srinidi, and Srinivas Pinisetty on "Bounded Serial Compositional Runtime Enforcement" is included for simplicity directly in this volume.

Clément and Volker would like to thank AITO and in particular their president Davide Ancona and their treasurers Walter Olthoff and Ben Hermann for their confidence in letting us organise ECOOP 2025 and colocated events with an interesting extended program. Of course, most of the work was done by the respective workshop chairs, who did a great job in attracting contributions in times where many researchers experience financial uncertainty and big events capture more and more of the "scientific attention-span" of authors. We believe that targeted events with a focused topic are a good addition to the main conference, where early results that have not been polished to the degree of a full journal- or conference submission can be

presented and potentially gain detailed expert feedback. The liveliness of discussion in and around the workshops certainly seems to indicate some success in this regard. Publications in a reputable venue such as the Journal of Object Technology (JOT) here additionally serve as valuable timestamps on ongoing research in the spirit of academic preprints.

We are also grateful to the publishing support by Alfonso Pierantonio for making this JOT-issue happen, to the previous ECOOP workshops chair Manuel Rigger for sharing their tips, and to our colleague Violet Ka I Pun at HVL who as local organization chair made sure that things on-site were humming along smoothly and that participants were well supplied with coffees and meals.

About the editors

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