DEBT 2025 – Third Workshop on Future Debugging Techniques Preface

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ABSTRACT Welcome to DEBT'25: the third Workshop on Future Debugging Techniques, colocated with ECOOP 2025, which took place on July 4th, 2025, in Bergen, Norway. The goal of the DEBT workshop series is to gather researchers from all areas in the field of programming languages and software engineering to discuss novel ideas to define the debugging techniques and tools of the future.

KEYWORDS Debugging, Visualisation, Case studies, Bug.

Like its first two editions, DEBT'25 aimed at gathering the community and fostering discussion from different perspectives. We welcome researchers from all related areas aimed at helping with the challenging task of diagnosing the root cause of bugs, including dynamic and static debugging techniques, online and postmortem debuggers, delta debugging, automatic bug finding, and novel visualization techniques for debugging programs.

We are delighted to have Dr. Sebastian Erdweg (Johannes Gutenberg University Mainz) as our keynote speaker. His talk overviewed a framework for live feedback to developers through incremental program analysis. DEBT'25 received three submissions this year, partly due to earlier deadlines than the previous years. Despite the small number of submissions, the papers covered diverse and timely topics in debugging, including interactive debugging methods integrated into IDEs, mitigating anti-debugging techniques in virtualization environments, and visualization techniques for better program comprehension. Each submission has been carefully evaluated by a Program Committee of 8 members and received at least three reviews. Reviewers engaged in an online discussion on hotcrp and, in the end, accepted all three contributions: two work-in-progress research papers and one tool demonstration.

In addition to the authors and the keynote speaker, we thank all the PC members for their efforts and time spent on the reviews and PC discussions.

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