

Proceedings of the 15th Edition of Seminar on Advanced Techniques & Tools for Software Evolution

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The goal of SATToSE is to connect researchers who are working on software visualization techniques, tools for co-evolving various software artifacts, their consistency management, run-time adaptability, context awareness, and empirical results about software evolution. SATToSE offers invited talks, paper presentations, and tutorials, fostering interactions among participants and stimulating lively debates and discussions around the topics of interest of the event. The 15th edition of SATToSE was organized by the University of Salerno in Fisciano (IT) and hosted from 12 to 14 June 2023. The program chairs accepted 12 Work in Progress papers and 4 Publication Summary papers which reflected the expected quality of technical content.

Technical papers underwent a mild yet constructive review. We explicitly solicited papers in the early stages of research, which are still rather rough around the edges and could benefit from feedback from the community. Technical papers were reviewed by at least three program committee members, assessing whether they are within the scope of SATToSE (i.e., software models and evolution aspects) and meet its quality criteria. The papers part of the proceedings includes the feedback received during the workshop. Presentation summary report on research results that have already been published or are ready to be submitted to a conference or a journal. They were reviewed for relevance and are not included in the SATToSE proceedings but are available on the workshop website.

SATToSE 2023 was co-located with the 16th International Summer School on Software Engineering (ISSSE), organized yearly by the University of Salerno. The summer school featured international speakers and was held June 13-15, 2023. In particular, two days of the program overlapped between ISSSE and SATToSE. On such days, invited talks were alternated with SATToSE seminars. The four invited talks were presented by Mark Harman, Research Scientist at Meta and a part-time professor of Software Engineering in the Department of Computer Science at University College London, Helena Holmström Olsson, full professor at the Malmö University, Alexander Serebrenik, full professor at the Eindhoven University of Technology, and

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Mairieli Wessel, assistant professor at the Radboud University. Their talks were about topics related to software engineering, with a particular focus on (Chat)bots, software testing and genetic improvements, diversity and inclusion in software engineering, and opportunities for continuous deployment of software-embedded systems.

We thank our program committee members for producing outstanding reviews and all the attendees for the feedback and good discussions. Everyone took a diligent stand in aiding all with fruitful comments and remarks: we are thankful for such contributions.

Organizing Committee

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- Dario Di Nucci, Department of Computer Science, University of Salerno (Italy)
- Valeria Pontillo, Department of Computer Science, University of Salerno (Italy)
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Program Committee

- Alexandre Bergel, University of Chile (Chile)
- Gemma Catolino - JADS / University of Tilburg (The Netherlands)
- Zadia Codabux - University of Saskatchewan (Canada)
- Eleni Constantinou - University of Cyprus (Cyprus)
- Coen De Roover - Vrije Universiteit Brussel (Belgium)
- Davide Di Ruscio - University of L'Aquila (Italy)
- Maria Kechagia - University College London (United Kingdom)
- Kim Mens - Université catholique de Louvain (Belgium)
- Valeria Pontillo - University of Salerno (Italy)
- Gregorio Robles - Universidad Rey Juan Carlos (Spain)
- Tushar Sharma - Dalhousie University (Canada)
- Vadim Zaytsev - University of Twente (The Netherlands)