Welcome from the Chairs

The VISSOFT conference is the main venue for discussing software visualization research. Traditionally, VISSOFT brings together a community of researchers from software engineering, information visualization, human-computer interaction, computer graphics, and data science to discuss theoretical foundations, algorithms, techniques, tools, and applications related to software visualization.

This year’s VISSOFT, co-held with ICSME, encouraged a variety of submissions that addressed outstanding challenges in software systems using visualization. This included technical papers, evaluations, applications/design studies, systems and formalisms, and papers that present novel ideas and tools.

We received 42 submissions: 23 technical papers, 16 New Ideas and Emerging Results (NIER) and Tool Demo (TD) papers, and 3 journal-first presentations of selected software visualization papers having appeared earlier in journals. Technical and NIER/TD papers were peer-reviewed by 3 members of the program committee. The submitted journal-first presentations were assessed based on the suitability of the topic by the program co-chairs. Together with the PC, we had an online discussion when making the decisions. In the end, we accepted the 9 technical papers and 14 NIER/TD papers. A keynote talk by Michele Lanza (University of Lugano, Switzerland) and a capstone talk by Daniel Weiskopf (University of Stuttgart, Germany) complete the program.

For a second year, due to the impact of COVID-19 VISSOFT has been conducted online. The accepted papers have been published, as originally planned, in IEEE Xplore.

We thank all authors for trusting this event to disseminate their work. Also, we would like to thank the members of the program committee who provided authors with detailed reviews of their work. We thank Craig Anslow and Alexandre Bergel for their work on the Most Influential Paper committee; Richard Müller for chairing the Tool Demo selection; Fabio Petrillo for coordinating the proceedings production; Alison Blanco for coordinating the web materials; and Carolin Brandt for organizing the publicity. Last but not least, we thank Mike Papadakis and Magali Martin from ICSME and Cristina Ceballos from IEEE for helping us with the organizational aspects of our conference.

Alexandru Telea  
Utrecht University, Netherlands  
General Chair

Leonel Merino  
Pontificial Catholic University of Chile, Chile  
Program Co-Chair

Juan Pablo Sandoval Alcocer  
Pontificial Catholic University of Chile, Chile  
Program Co-Chair
Accepted Papers

Technical Papers

1. A Scalable Log Differencing Visualisation Applied to COBOL Refactoring. Céline Deknop, Kim Mens, Alexandre Bergel, Johan Fabry and Vadim Zaytsev
2. CodeCity: On-Screen or in Virtual Reality? David Moreno-Lumbraeras, Roberto Minelli, Andrea Villaverde, Michele Lanza and Jesus M. Gonzalez-Barahona
4. Continuous Rationale Visualization. Anja Kleebaum, Barbara Paech, Jan Ole Johanssen and Bernd Bruegge.
5. Global Overviews of Granular Test Coverage with Matrix Visualizations. Kaj Dreef, Vijay Krishna Palepu and James Jones
6. Trace Visualization within the Software City Metaphor: A Controlled Experiment on Program Comprehension. Veronika Dashuber and Michael Philippsen
8. Visualization of Object-Oriented Variability Implementations as Cities. Johann Mortara, Philippe Collet and Anne-Marie Dery

NIER/TD Papers

4. CHANGEVIZ: Enhancing the GitHub Interface with Method Calls Information. Lorenzo Gasparini, Enrico Fregnan, Larissa Braz, Tobias Baum and Alberto Bacchelli
8. Towards a JSON-based Algorithm Animation Language. Artturi Tilanterä, Giacomo Mariani, Ari Korhonen and Otto Seppälä
10. Visualizing Data in Software Cities. Susanna Ardigò, Csaba Nagy, Roberto Minelli and Michele Lanza
11. Visualizing Discord Servers. Marco Raglianti, Roberto Minelli, Csaba Nagy and Michele Lanza
12. Visualizing GitHub Issues. Aron Fiechter, Roberto Minelli, Csaba Nagy and Michele Lanza
14. Voronoi Evolving Treemaps. Davide Paolo Tua, Roberto Minelli and Michele Lanza

The conference can be found on the web at:

https://vissoft.info/2021/

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• Malte Hansen, Kiel University, Germany

September 2021

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VISSOFT’21 Program Committee Co-Chairs