Thursday 11 April

Welcome to the final day of the ETAPS conference! Today our unifying speaker is Ruzica Piskac, an associate professor at Yale University, giving a talk on the “Expressive and Scalable Privacy-Preserving Automated Reasoning”.

Testing and Verification, Games, and Concurrency from TACAS; Verification and Analysis, and Abstract Interpretation from ESOP; Logic and Proofs, Infinite-State Systems, from FoSSaCS; and Verification Tools, Model Checking from SPIN, an Open Community Meeting from Test-Comp and the Award Winner Presentations!

Today also includes five Award Nominated Papers

- 10:30 | Verified Inlining and Specialisation for Pure Cake - Hrutvik Kanabar, Kacper Korban and Magnus O. Myreen
- 11:30 | Craig Interpolation for Decidable First-Order Fragments - Balder ten Cate and Jesse Comer
- 17:00 | OxiDD: A Safe, Concurrent Modular and Performant Decision Diagram Framework in Rust - Nils Husung, Clemens Dubslaff, Holger Hermanns and Maximilian Alexander Köhl
17:00 | Formalizing Date Arithmetic and Statistically Detecting Ambiguities for the Law - Raphaël Monat, Aymeric Fromherz and Denis Merigoux
17:30 | Detection of Uncaught Exceptions in Functional Programs by Abstract Interpretation - Pierre Lermusiaux and Benoit Montagu

And many other exciting talks!

Session Highlight

Tool Demo

Wednesday afternoon there was a demo session featuring the tools presented during the conference. In case you missed it, we asked the participants for a brief description of their tool.

- **VerCors** is a deductive verifier for concurrent programs which may be interesting for formal methods researchers and safety security researchers ([https://vercors.ewi.utwente.nl/](https://vercors.ewi.utwente.nl/))
- **Topllet** is a tool supporting query answering over temporal data with expressive background knowledge useful for safety engineers working on autonomous driving ([https://github.com/lu-w/topllet](https://github.com/lu-w/topllet))
- **SootUp** is a Redesign of the Soot Static Analysis Framework interesting for researchers in application security ([https://soot-oss.github.io/SootUp/latest/](https://soot-oss.github.io/SootUp/latest/))
- **JPF** is a Verification Platform for Java byte code, useful for lectures who want to teach concurrency and researcher or engineers who want to verify complex algorithm. ([https://github.com/javapathfinder/jpf-core](https://github.com/javapathfinder/jpf-core))
- **Program Synthesis for Grader Type Systems**: a synthesis tool for the programming language Granule which allows users to synthesize a program with resource constraints useful for functional programmers. ([https://granule-project.github.io/](https://granule-project.github.io/))
- **APrOVE** is a system for automated termination and complexity proofs for Java, Prolog, C and Haskell with a focus on term rewriting systems, interesting for verification researchers. It is also available as an eclipse plug in. ([https://aprove.informatik.rwth-aachen.de/](https://aprove.informatik.rwth-aachen.de/))
- **BenchExec** is a benchmarking framework that allows you to benchmark tools in reliable and convenient manner, meant for users, researchers, and developers of solvers and verifiers. ([https://github.com/sosy-lab/benchexec](https://github.com/sosy-lab/benchexec))
- **CPAchecker** is a verification platform for C Programs which may be useful for researchers and developers interested in the verification of C code. [https://cpachecker.sosy-lab.org/](https://cpachecker.sosy-lab.org/)
- **CESAR** is a tool that synthesizes correct by construction characterizations of all the safe controllers of cyber physical systems meant for researchers and safety engineers. ([https://figshare.com/articles/software/Control_Envelope_Synthesis_via_Angelic_Refinements_CESAR_Artifact/24922896](https://figshare.com/articles/software/Control_Envelope_Synthesis_via_Angelic_Refinements_CESAR_Artifact/24922896))
- **CVC5** is an industry strength SMT solver for industry and research software verification ([https://cvc5.github.io/](https://cvc5.github.io/))
As the conference comes to a close, we would like to remind everyone that the ETAPS 2025 Call for Papers is already out! The deadlines for the two rounds of ESOP submissions are May 30, 2024 and October 10, 2024. All other conferences have a submission deadline of October 10, 2024. More information can be found on the ETAPS 2025 Joint Call for Papers Webpage (https://etaps.org/2025/cfp/). Next year the conference will be held in Hamilton, Canada, from 3–8 May, 2025. We hope to see you there!

Additionally, here are a few tips to make the conference smoother:

**Wi-Fi:** Each room at the venue will have its own Wi-Fi with the name being the room name and the password: “Room-name”-1453. There will also be a sign in each room with the Wi-Fi name and password.

**Transportation:** Public transportation in Luxembourg is free, please check out www.mobiliteit.lu for schedules.

**Contact:** If you have any further questions or administrative requests, please feel free to contact us at etaps2024@uni.lu
Wednesday Photos