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Preface

This volume contains the proceedings of the 8th International Symposium on AI Verification (SAIV), co-located with the 37th International Conference on Computer Aided Verification (CAV) in Zagreb, Croatia, on July 21–22, 2025. SAIV 2025 built on an 8-year legacy as the successor to the *FoMLAS* and *WOLVERINE* workshops, and the previous edition of SAIV. Dedicated to addressing the grand challenge of verifying the safety of AI systems, SAIV brings together researchers from the formal methods and artificial intelligence communities, serving as a platform for exchanging ideas and driving innovation at the intersection of these critical fields. SAIV 2025 hosted the 6th International Verification of Neural Networks Competition (VNN-COMP).

The symposium solicited four categories of submissions: regular papers presenting original research; presentation-only papers featuring recently published or submitted work; extended abstracts describing preliminary or in-progress research; and benchmarks or case studies showcasing practical evaluations, real-world applications, or lessons learned in deploying safety-critical AI systems. The scope of the symposium was organized into two broad thematic areas. The first, formal methods for artificial intelligence, included topics such as formal specifications, analysis, synthesis, testing, statistical analysis, and explainability for systems with AI components. The second, artificial intelligence for formal methods, focused on AI techniques applied to formal verification, synthesis, safe control, and falsification. This structure encouraged a wide range of contributions, supporting both theoretical developments and applied research relevant to the safe deployment of AI technologies.

The symposium attracted 28 submissions for original contributions, extended abstracts, and case studies, each of which was carefully reviewed by three PC members in a single-blind process. As a result, 13 papers were accepted for publication in these proceedings, including 8 regular papers, one case study, and 4 extended abstracts. The present proceedings also include four VNN-COMP contributions.

The program included six invited talks by Nora Ammann (Advanced Research + Invention Agency), Luca Arnaboldi (University of Birmingham), Andreea Costea (TU Delft), Eleonora Giunchiglia (Imperial College London), Guillermo Perez (University of Antwerp), and Masaki Waga (Kyoto University). The invited talks were followed by round-table discussions. As part of the programme, the symposium featured over 20 posters presenting peer-reviewed results as well as ongoing unpublished work.

We thank all authors who submitted papers, the programme committee members, the invited speakers, the participants, the organisers of the VNN-COMP, and the hosting organizers of CAV for making SAIV 2025 a successful event.

July 2025

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