

🌐 N/a 📅 July 21-25, 2025

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CONFERENCE WEBSITE: <https://conferences.i-cav.org/2025/cfp/>

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## | About the Conference

CAV 2025 Call for Papers

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### IMPORTANT DATES

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All deadlines are AoE (Anywhere on Earth)

Paper submission:

Full papers due: January 31, 2025

Author Response Period: March 11 - 14, 2025

Author notification: April 2, 2025

Main Conference: July 21-25, 2025

Submission Site

Main submission site is


<https://cav2025.hotcrp.com/>

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### SCOPE

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CAV 2025 is the 37th in a series dedicated to the advancement of the theory and practice of computer-aided formal analysis methods for hardware and software systems. The conference covers the spectrum from theoretical results to concrete applications, with an emphasis on

 **Important Dates**

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 **CONFERENCE DATE**  
**July 21-25, 2025**

practical verification tools and the **algorithms** and techniques that are needed for their implementation. CAV considers it vital to continue spurring advances in hardware and software verification while expanding to new domains such as **machine learning**, autonomous systems, and computer security. The proceedings of the conference will be published in the Springer-Verlag Lecture Notes in **computer science** series. A selection of papers is expected to be invited to a special issue of Formal Methods in System Design and the Journal of the ACM.

Topics of interest include but are not limited to:

Algorithms and tools for verifying models and implementations

Algorithms and tools for system synthesis

Algorithms and tools that combine verification and learning

Mathematical and logical foundations of verification and synthesis

Specifications and correctness criteria for programs and systems

Deductive verification using proof assistants

Hardware verification techniques

Program analysis and software verification

Software synthesis

Hybrid systems and embedded systems verification

Formal methods for cyber-physical systems

Compositional and abstraction-based techniques for verification

Probabilistic and statistical approaches to verification

Verification methods for parallel and concurrent

systems

Testing and run-time analysis based on verification technology

Decision procedures and solvers for verification and synthesis

Applications and case studies in verification and synthesis

Verification in industrial practice

New application areas for algorithmic verification and synthesis

Formal models and methods for security

Formal models and methods for biological systems

AI safety and explainability using formal methods

Submissions on a wide range of topics are sought, particularly ones that identify new research directions. CAV 2025 is not limited to topics discussed in previous instances of the conference. Authors concerned about the appropriateness of a topic may communicate with the conference chairs prior to submission.

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PAPER SUBMISSION

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Paper submissions in CAV fall into one of the following three categories (see more information below):

Regular Papers (18 pages max, must be anonymized) Tool Papers (10 pages max, not anonymized) Industrial Experience Reports & Case Studies. (10 pages max, not anonymized) Papers in all three categories must be submitted by January 31, 2025 AoE, and should be in LNCS format. Simultaneous submission to other conferences with proceedings or submission of

material that has already been published elsewhere is not allowed. The review process will include a feedback/rebuttal period where authors will have the option to respond to reviewer comments. The PC chairs may solicit further reviews after the rebuttal period.

## REGULAR PAPERS

Regular papers should not exceed 18 pages in LNCS format, not counting references and appendices.

Regular papers at CAV 2025 will follow a full double blind review process, which means that author names and affiliations must be omitted from the submission. Additionally, if a submission refers to prior work done by the authors, the reference should be made in the third person. These are firm submission requirements, and any regular paper that does not conform to these requirements will be rejected without review.

We do not discourage authors to put their submission on arXiv, but we strongly encourage authors to not put the work on arXiv around (within 1 week) or shortly after (within 1 month) the submission deadline, because potential reviewers may be subscribed to receive updates on recently posted papers.

Authors can include a clearly marked appendix at the end of their submissions that is exempt from the page limit restrictions. However, the reviewers are not obliged to read the contents of these appendices. Regular papers should contain original research and sufficient detail to assess the merits

and relevance of the contribution. Papers will be evaluated on the basis of a combination of correctness, technical depth, significance, novelty, clarity, and elegance.

Authors of accepted regular papers will be invited (but are not required) to submit a relevant artifact for evaluation by the artifact evaluation committee. Authors are encouraged to consult SIGPLAN's Empirical Evaluation Guidelines when reporting on empirical results.

#### TOOL PAPERS

Tool papers should not exceed 10 pages, not counting references.

Tool papers should describe system and implementation aspects of a tool with a large (potential) user base (experiments not required, rehash of theory strongly discouraged). Papers describing tools that have already been presented (in any conference) will be accepted only if significant and clear enhancements to the tool are reported and implemented.

Tool papers will follow a single blind review process. They do NOT need to be anonymized.

Tool papers will be provisionally accepted based on the manuscript. Authors of provisionally accepted tool papers must submit an artifact for evaluation by the artifact evaluation committee: final acceptance is conditional on successful artifact evaluation at the "functional" level. In special cases, where an artifact cannot be submitted, the authors should contact the Artifact Evaluation

chairs to find alternate modes of artifact evaluation.

## INDUSTRIAL EXPERIENCE REPORTS AND CASE STUDIES

Industrial Experience Reports and Case Studies should not exceed 10 pages, not counting references.

These papers are expected to describe the use of formal methods techniques in industrial settings or in new application domains. Papers in this category do not necessarily need to present original research results but are expected to contain novel applications of formal methods techniques as well as an evaluation of these techniques in the chosen application domain. Such papers are encouraged to discuss the unique challenges of transferring research ideas to a real-world setting and reflect on any lessons learned from this technology transfer experience.

Industrial Experience Reports and Case Studies will follow a single blind review process. They do NOT need to be anonymized.

Authors of accepted Industrial Experience Reports and Case Studies will be invited (but are not required) to submit a relevant artifact for evaluation by the artifact evaluation committee.

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### CONTACT

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For any questions please contact the PC chairs:

Ruzica Piskac (ruzica.piskac at yale.edu)

Zvonimir Rakamaric (zrakamar at gmail.com)

 **TOPICS OF INTEREST**

2 topics

Research papers are invited in, but not limited to, the following areas:

Computer Science  
& Software  
Engineering

Uncategorized

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