Preface

This volume contains the papers accepted for presentation at ICAPS 2025, the Thirty-Fifth International Conference on Automated Planning and Scheduling, to be held in Melbourne, Australia, November 9-14, 2025. The annual ICAPS conference series was formed in 2003 through the merger of two pre-existing biennial conferences, the International Conference on Artificial Intelligence Planning and Scheduling (AIPS) and the European Conference on Planning (ECP). ICAPS continues the traditional high standards of AIPS and ECP as an archival forum for new research in the field of automated planning and scheduling.

ICAPS 2025 was co-located with two other events: *The International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research* (CPAIOR), and *The International Conference on the Principles of Knowledge Representation and Reasoning* (KR). Existing research into methods and representations for Automated Planning and Scheduling has drawn heavily from the research conducted by these communities. We believe that the co-location of these conferences with ICAPS can only boost these beneficial relationships.

Submission Data

ICAPS 2025 solicited submissions on all aspects of automated planning and scheduling and their applications. A total of 51 papers are included in this volume, consisting of 38 long papers and 13 short papers, from a total of 228 submissions. All submissions were reviewed by an international Program Committee of 312 experts. The proportion of accepted papers, 22%, reflects the Program Committee's high reviewing standards.

For the purposes of reviewing, authors were asked to categorise their submissions into one of several *type tags*, which describe the nature of each contribution, followed by one or more *topic tags*, which distinguishes the context that motivates the research questions, and one or more *subject tags*, which further spell out the specific mathematical and algorithmic frameworks that are addressed in a submission. Indexing submissions in a careful manner allowed us to match each paper to the most relevant reviewers. As part of the printed proceedings, indexing helps the community track how research in a particular area evolves over time.

The *type* categories at ICAPS 2025 are as follows:

- *Theoretical papers*, which broaden or improve the set of analytical tools used to study planning and scheduling problems and algorithms.
- *Algorithmic papers*, which describe novel perspectives and substantial (qualitative or quantitative) improvements for solving planning and scheduling problems.
- *Modelling papers*, which describe new representations of planning and scheduling problems and their solutions.
- *Position papers*, which contribute thoughtful critiques or bold new perspectives of the field.
- *Tools papers*, which describe systems that are of use and of interest to the planning and scheduling community, and which are built using novel algorithmic and engineering techniques.

The Tools category is new for 2025 and recognises outstanding contributions to the development of automated planning and scheduling technology, ready to be widely used in industrial and academic settings. We hope that future instalments of ICAPS continue this initiative, encouraging extension of existing tools and the development of new ones.

To help steer the reviewing process we next appointed, for each topic tag, a corresponding Topic Chair. These roles were filled by senior researchers in the community. Their role was to oversee reviews and meta-reviews in their area of expertise, guide the subsequent discussion and ensure that the conference reviewing criteria is reasonably and consistently applied. The topic tags and Topic Chairs at ICAPS 2025 were as follows:

- *Abstract Models* of Planning and Scheduling, chaired by Prof. Eva Onaindia. This topic received 75 submissions of which 29 (39%) were accepted.
- *Machine Learning* in Planning and Scheduling, chaired by Prof. Forest Agostinelli. This topic received 52 submissions of which 11 (21%) were accepted.
- *Applications* of Planning and Scheduling, chaired by Prof. Alberto Finzi. This topic received 30 submissions, of which 7 (23%) were accepted.
- Planning and Scheduling in *Robotics and Control Theory*, chaired by Prof. Nora Ayanian. This topic received 15 submissions, of which 2 (13%) were accepted.

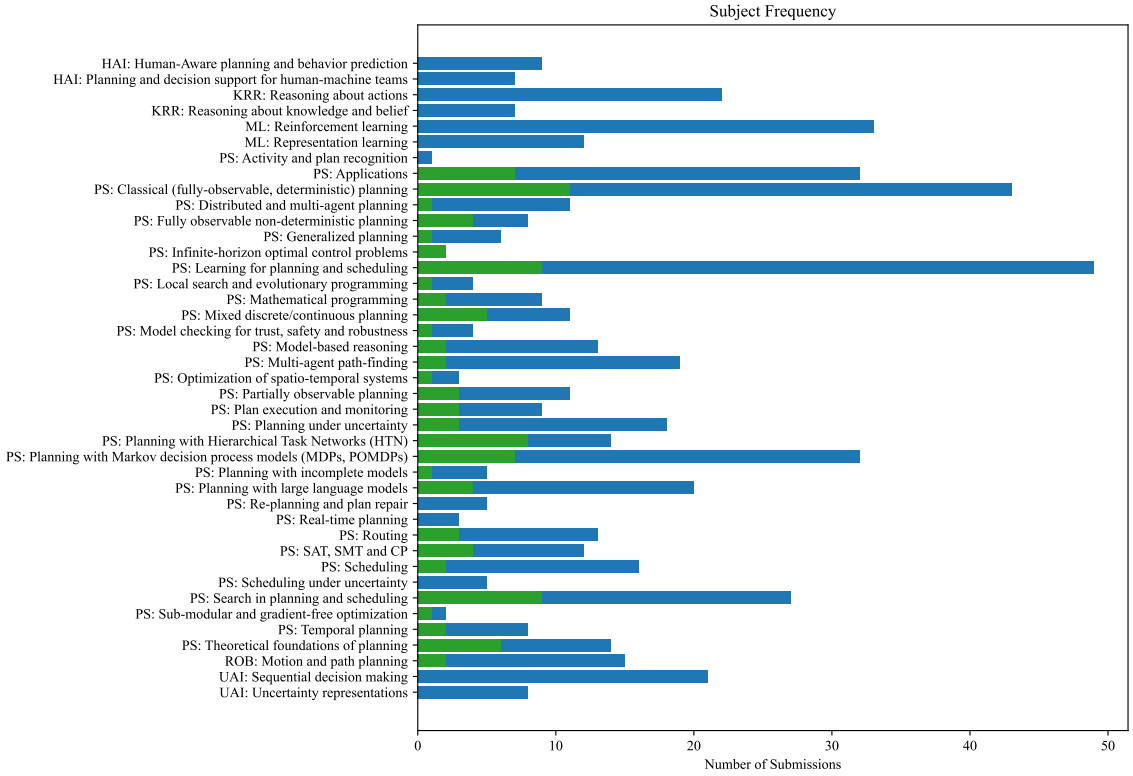

Figure 1: Subject keyword frequency in total submissions to ICAPS 2025 (blue) and accepted submissions (green). Keywords start with the category abbreviation (e.g. "PS" for Planning and Scheduling, "KRR" for Knowledge Representation & Reasoning), and then use a sentence used by either IJCAI or AAAI. We note that for the most part, we could always find a clear match between keywords of either conference under the Planning and Scheduling category.

- *Human-aware* Planning and Scheduling, chaired by Senior Researcher Andrea Orlandini. This topic received 5 submissions, of which none were accepted.
- *Knowledge Engineering* in Planning and Scheduling, chaired by Mauro Vallati. This topic received 22 submissions of which 7 (32%) were accepted.

While keeping in mind that authors could tag their submissions with multiple topics, there are apparent differences in the acceptance rates of papers and topics. Figure 1 illustrates the frequency of a particular subject tag (blue bar) and it compares this with the number of accepted submissions using the same keyword (green bar). It is clear to us that there are definite patterns that may inform the organisation of future ICAPS editions. We look

forward to presenting this data to the community during the conference and discussing possible interpretations.

Conference Highlights

All accepted papers were scheduled for oral presentation at the conference as well as optional participation in a poster program. These papers form the main part of the technical program, which is a highlight for each edition of ICAPS. The *System Demonstration* and *Previously Published Papers* tracks offered other ways to participate and engage with the ICAPS community. The former provides a showcase opportunity for emerging and established applications of Automated Planning and Scheduling technology. The latter provides authors of high-impact journal or conference publication with an opportunity to present results which have not previously appeared in ICAPS.

From the excellent collection of papers that met the high standards of the Program Committee, four were selected for special recognition. The award adjudication process consisted of three steps. Accepted submissions were split into the student and general categories. Each set of papers was sorted in descending order of their review scores, using the scores attained by the end of the reviewing period. The two top papers in each category were then presented to the ICAPS 2025 topic chairs for evaluation, who then cast a vote to determine the winner and provided a rationale for their decision. Neither conference nor program chairs were involved in the decision making of these awards. The highlighted papers are:

- **Best Student Paper Award**, *Safe Interval Randomized Path Planning For Manipulators* by Nuraddin Kerimov, Aleksandr Onegin and Konstantin Yakovlev.
- Runner-up for Best Student Paper Award, *HTN Plan Repair Algorithms Compared: Strengths and Weaknesses of Different Methods* by Paul Zaidins, Robert P. Goldman, Ugur Kuter, Dana S. Nau and Mark Roberts.

For the non-student category, two papers were tied for the **Best Paper Award**, which we list below in no particular order:

- *Parallelizing Multi-objective A* Search* by Saman Ahmadi, Nathan R. Sturtevant, Andrea Raith, Daniel Harabor and Mahdi Jalili.
- *Cost-Optimal FOND Planning as Bi-Objective Best-First Search* by Diego Aineto and Enrico Scala.

Another main highlight of the technical program were the invited talks from three *distinguished speakers*:

- Hana Kurniawati, on *Sequential Decision-Making for Robots Operating in Non Deterministic and Partially Observable World*.
- Bistra Dilkina, on *Machine Learning meets Combinatorial Optimization*.
- Son Tran on *Knowledge Representation meets Automated Planning: From Reasoning about Actions and Change to Planning and Model Reconciliation and Beyond*.

Satellite events

The ICAPS 2025 main conference program was preceded by a diverse collection of satellite events. The *International Optimisation and Planning Summer School* and the ICAPS *Doctoral Consortium* were student-focused events, where the next generation of researchers and industry practitioners can present their work and receive feedback from experts in the field, in a personal and direct manner. In addition to the Doctoral Consortium, ICAPS 2025 started a new *LaunchPad* workshop program. The workshop aimed to support Master's and Undergraduate students by providing a nurturing space to share research, gain career advice, explore graduate opportunities in automated planning and scheduling, and build professional networks.

A complementary program of 12 workshops and 8 tutorials served as a further introduction for the rest of the community to emerging and more mature lines of research.

The following events were included in the ICAPS 2025 Workshop Program: Constraint And Satisfiability-based Planning: an Exploratory Research Workshop (CASP); Workshop on Human-Aware and Explainable Planning (HAXP); Workshop on Heuristics and Search for Domain-independent Planning (HSDIP); The 8th ICAPS Workshop on Hierarchical Planning (HPlan); Workshop on Knowledge Engineering for Planning and Scheduling (KE PS); Knowledge Representation Meets Automated Planning (KRPlan); ICAPS 2025 Workshop on Planning in the Era of Large Language Models (LM4Plan); 13th Workshop on Planning and Robotics (PlanRob); Ninth Workshop on Bridging the Gap Between AI Planning and (Reinforcement) Learning (PRL); Workshop on Reliability In Planning and Learning (RIPL); Women in Computing: Empowerment, Career Development, and Overcoming Barriers in STEM (Women in Computing); and Industry Workshop on Smart Logistics & Sustainable Transport: Industry Solutions for Smarter Decision-Making (OPTIMA Industry Workshop).

The tutorial program offered in-depth perspectives on the following topics: Planning as SAT: What's new?; Integrating Machine Learning and Planning as Satisfiability: Going beyond Action Model Learning; The Theory and Practice of sub-optimal Best-First Search without Node Re-openings; Learning for Planning: An Introduction and Primer; MiniZinc - Constraint Programming for Planning; LTLf Synthesis and Planning Under Unreliable Input; Modeling and Solving Combinatorial Optimisation Problems with Heuristic Search through Domain-Independent Dynamic Programming; and Epistemic Planning: Recent Advancements and Future Directions.

Acknowledgements

We would like to thank the members of our Program Committee who carried out their duties as Reviewers, Area Chairs, and Topic Chairs. Their participation has been essential to maintaining the standards of quality that our community values so highly. At the time of writing this, the ways and norms that govern the dissemination of scientific research are changing rapidly. Whether by accident or by design, the Program Committee can still take pride in playing a fundamental role in science: to provide genuine, actionable feedback on papers to our peers. To all of our Reviewers and Area Chairs who went above and beyond writing detailed assessments and thoughtful questions: *thank you from the bottom of our hearts and on behalf of future generations of researchers in the field.* We would also like to thank the Organising Committee for their efforts, behind the scenes, in organising the events and activities of this conference. Without them, there would be no conference at all.

Finally, we want to thank our sponsors: OPTIMA (ARC Research Training in Optimisation Technologies Integrated Methodologies and Applications); The University of Melbourne, Monash University, David E. Smith, U.S. National Science Foundation (NSF), Artificial Intelligence, JP Morgan Chase Bank National Association, Learning Machines and Gurobi Optimisation.

We expect this volume to become a valuable reference for researchers and practitioners in the field of automated planning and scheduling.

Daniel Harabor, Miquel Ramirez
ICAPS 2025 Program Chairs

Nir Lipovetzky, Sebastian Sardina
ICAPS 2025 Conference Chairs

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