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4 PREFACE

Knowledge Representation and Reasoning (KR&R) is a cornerstone of Artificial Intelligence (AI) and a broad, prolific field of research with a vibrant international community. At its core lies the fundamental thesis that knowledge can often be represented in an explicit, declarative form—symbolic structures suitable for processing by dedicated reasoning engines. This explicit representation enables the exploitation of knowledge that would otherwise remain implicit, through semantically grounded inference mechanisms.

KR&R has profoundly influenced the theory and practice of numerous areas within AI, including automated planning, robotics, multi-agent systems, natural language processing, computer vision, and machine learning. Its impact extends well beyond AI, contributing to fields such as data management, the Semantic Web, verification, software engineering, computational biology, and cybersecurity.

The International Conference on Principles of Knowledge Representation and Reasoning (KR) is the leading forum for the in-depth and timely presentation of advances in the theory and practice of representing and computationally managing knowledge.

The twenty-second edition of KR, KR 2025, was held from Tuesday, 11 November to Monday, 17 November 2025, in Melbourne, Australia. The scientific program featured five keynotes delivered by internationally renowned invited speakers, over a hundred technical talks, as well as tutorials, workshops, poster sessions, and a Doctoral Consortium.

In 2025, KR introduced new thematic tracks, inspired by its co-location with the International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR) and the International Conference on Automated Planning and Scheduling (ICAPS). These included KR&R in Planning & Scheduling, KR and Constraints, and KR in the Wild. The conference also featured a Video Track and a Recently Published Research Track, continuing KR's tradition of showcasing both foundational advances and innovative applications in Knowledge Representation and Reasoning.

Conference Tracks and Events. The conference featured various tracks and special events, summarized below.

As in the past, the Main Track focused on papers presenting novel results on the principles of KR&R, which clearly contribute to the formal foundations of the field, or show the applicability of KR&R techniques to implemented or implementable systems. It also welcomed papers from other areas that demonstrate clear use of, or contributions to, the principles or practice of KR&R. The Main Track received 163 paper submissions and accepted 55 (33.7%). 52 of the accepted papers were full papers and 3 were short papers.

In addition, the KR 2025 conference featured the following special tracks:

KR and Constraints Chairs
KR in Planning & Scheduling
KR in the Wild

Recent Published Research Track
Video Track

Submissions and Reviewing. We received 245 full and short paper submissions to the main technical program, including the KR Main Track, and the special tracks. In a thorough double-blind review process, submissions received an average of 3.0 reviews. Reviewed papers also received a meta-review by an Area or Track Chair. A total of 85 papers (34.7%) were accepted for presentation and inclusion in the conference proceedings. This excellent scientific program is the result of the hard work of 37 Area Chairs, 283 Program Committee members and 64 additional reviewers who provided a total of 739 reviews and 245 meta-reviews. In addition, 25 PC members selected the accepted contributions to the Recently Published Research Track and the Video Track. We are deeply grateful to all reviewers and meta-reviewers for their hard work and dedication to the outstanding scientific program of KR 2025.

Submission Topics. The most popular submission topics of KR 2025 were Computational aspects of knowledge representation; Argumentation; Knowledge representation languages; Automated reasoning; Description logics; Reasoning in multi-agent systems; Reasoning about knowledge, beliefs, and other mental attitudes; as well as Logic programming, answer set programming. Other popular topics included Reasoning about actions and change; Belief change; Explainable AI; KR and Embeddings; and Non-monotonic logics.

Best Paper Awards. We are very glad to reveal the winners and runners-up for this year's best paper awards.

- *Ray Reiter Best Paper Award:* "Finite Axiomatizability by Disjunctive Existential Rules", by Marco Calautti, Marco Console, and Andreas Pieris.
- *Ray Reiter Best Paper Award Runner-Up:* "Minimal Model Reasoning in Description Logics: Don't Try This at Home!", by Federica Di Stefano, Quentin Manière, Magdalena Ortiz, and Mantas Simkus.
- *Marco Cadoli Best Student Paper Award:* "Efficient Volume Computation for SMT Formulas", by Arijit Shaw, Uddalak Sarkar, and Kuldeep S. Meel.
- *Marco Cadoli Best Student Paper Award Runner-Up:* "Model Checker For Recursive Aggregates", by Mario Alviano, Carmine Dodaro and Salvatore Fiorentino.

The *Best Video Award* went to Matti Berthold, Marvin Grosser, Simon Hosemann, Quentin Manière, Moritz Schönherr, and Lukas Schulze, for their video "Waiting for the Chase To Terminate: Have You Tried This Other Variant?".

A *Peoples' Choice Award* for the Video Track of KR 2025 was selected at the conference and announced after the publication of these proceedings.

KR Inc. Awards. The KR 2025 program also included a session to announce and honor the winners of three KR Inc. awards.

The Test of Time Award, initiated in 2020, is awarded for a paper published at the KR conference at least 15 years ago whose contributions have made a significant and lasting impact on the KR&R academic discipline, the application or adoption of KR&R techniques in industry, and/or for the betterment of society. This year the KR Test of Time Award goes to Diego Calvanese, Giuseppe De Giacomo, Domenico Lembo, Maurizio Lenzerini, and Riccardo Rosati, for their KR 2006 paper “Data Complexity of Query Answering in Description Logics”.

The Early Career Award, introduced in 2021, recognizes recent PhD students who have already made significant research contributions to the theory and/or practice of KR&R and who demonstrated great promise for future impactful contributions. This year the Early Career Award goes to Tuomo Lehtonen.

This year the Pavlos Peppas Distinguished Service Award recognizes Mirek Truszczyński for his exceptional and sustained service to the Knowledge Representation and Reasoning community.

Tutorials and Workshops. KR 2025 had an open call for tutorials and workshops. We had a strong tutorial and workshop program on a variety of interesting and timely topics covering the whole spectrum of KR&R.

Two tutorials were held at KR 2025:

- *User-friendly Knowledge Representation* by Simon Vandevelde
- *Rigid and Variable Embodiment: Theory and Applications in Knowledge Representation* by Stefano Borgo, Salvatore Florio, Øystein Linnebo, Guendalina Righetti, Riccardo Baratella

The workshop program comprised the following events:

- *Knowledge Representation Meets Automated Planning (KRPLAN 2025)* by Stefan Borgwardt, Giuseppe De Giacomo, Gabriele Röger
- *Second International Workshop on Argumentation and Applications (Arg&App 2025)* by Oana Cocarascu, Sylvie Doutre, Jean-Guy Mailly, Antonio Rago
- *Second International Workshop on Next-Generation Language Models for Knowledge Representation and Reasoning (NeLaMKRR 2025)* by Francesca Toni, Kostas Stathis, Randy Goebel, Ken Satoh, Nguyen Ha Thanh
- *12th International Cognitive Robotics Workshop (CogRob-2025)* by Maurice Pagnucco, Ron Petrick, Timothy Wiley
- *6th Workshop on Explainable Logic-Based Knowledge Representation (XLoKR 2025)* by Franz Baader, Nico Potyka, Stefan Borgwardt, Xiang Yin

- *1st International Workshop on LLMs and KRR for Trustworthy AI (LMKR-TrustAI)* by Maurice Pagnucco, Yang Song

- *Workshop in Honour of Pavlos Peppas* by Maurice Pagnucco, Mary-Anne Williams, James P. Delgrande, Gabriele Kern-Isberner, Mikhail Prokopenko, Theofanis Aravanis

The tutorials and workshops were held over a period of three days preceding the main conference.

In addition, KR 2025 was strengthened and enhanced by the co-location of the *22nd International Workshop on Non-Monotonic Reasoning (NMR 2025)*.

Keynote Presentations. The conference program included five keynote presentations from internationally recognized researchers aimed at cutting-edge topics in KR&R:

- Ana Ozaki (University of Oslo)
- David Pearce (Universidad Politécnica de Madrid)
- Gerardo Simari (Universidad Nacional del Sur in Bahía Blanca)
- Son Cao Tran (New Mexico State University)
- Sylvie Thiébaux (Australian National University)

Conference Organization. We wish to thank those people who helped in the many aspects that were needed to make KR 2025 a hugely successful event. The Area Chairs, Track Chairs, Special Session Chairs, Program Committee members and additional reviewers were very helpful and supportive in their thorough and timely review of the submissions. The local arrangements teams, especially Son Tran (Deakin University, Australia), have gone above and beyond to ensure an outstanding conference. We cannot thank them enough.

The Workflow Chair, Javier Romero (University of Potsdam, Germany) made sure the conference processes ran like a magnificently oiled machine. In particular, he helped immensely with the handling of the conference platform as well as ensuring that all aspects of the conference program were managed in a timely and efficient manner. Our KR 2025 Web Master Nahim Alves de Souza (Universidade de São Paulo, Brasil) developed an engaging web site and was always prompt in updating the site. He has set a very high standard for others to follow. We were very fortunate in assembling this team and are very grateful for their outstanding contributions to the conference.

In closing, we thank our KR colleagues and the KR community for their significant contributions to KR 2025 which appear in the following pages. The amazing spirit and unwavering support of the KR community is what makes our conference special.

São Paulo (Brasil), Potsdam (Germany), Vienna (Austria)
October 2025

Renata Wassermann and Torsten Schaub
Program Chairs

Magdalena Ortiz
General Chair

5 SPONSORS

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