

# Preface

The original goal of artificial intelligence (AI) was to build machines with human-level intelligence. As the field evolved, efforts became scattered across a wide range of “narrow” AI domains. The goal of the Artificial General Intelligence (AGI) community is to refocus on the original goal of human-level intelligence, and to explore the space of possible intelligences. Sometimes this means tying together narrow AI technologies into more complex systems and cognitive architectures. But equally often, AGI research involves finding new ways of looking at intelligence, including new algorithms, mathematical frameworks, and conceptualizations. A third branch of research covers the societal impact of AGI, and how to ensure its safe applicability.

This, the tenth AGI conference, took place during August 15–18 in Melbourne, Australia, against the backdrop of many exciting developments in traditional AI and machine learning. It is therefore only appropriate that the conference was hosted back-to-back with some major traditional AI and machine learning conferences: ICML and UAI in Sydney, and IJCAI also in Melbourne.

We received 35 high-quality papers, spanning a wide range of AGI topics. Out of these submissions, 21 papers (60%) were accepted for oral presentation. An additional six papers were accepted for poster presentation. Keynotes, tutorials, and workshops provided additional perspectives. In the keynotes, Christian Calude explored practical and theoretical aspects of incomputability, Marcus Hutter advertised universal artificial intelligence, Peter Cheeseman discussed recursively self-improving AI, and Elkhonon Goldberg connected biological insights about the brain with AI architectures. In the tutorials, Alexey Popatov suggested possible cross-fertilizations between AGI approaches, and Ben Goertzel envisioned a future unification. Naotsugu Tsuchiya gave a tutorial on AGI and consciousness. Finally, part of the last day was devoted to a workshop on understanding.

We wish to extend a deep thanks to the Program Committee for performing the essential task of quality control of the submissions. All papers received constructive feedback and an impartial evaluation from at least two independent reviewers. Only a handful of papers received less than three reviews. We also wish to thank the local committee for organizing the conference, and thank our generous sponsors, the OpenCog Foundation and Hanson Robotics.

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