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1.

Natural Language Grammar Induction via Transformer-Based Sequence Probabilities -- Embedding Vector Differences Can Be Aligned With Uncertain Intensional Logic Differences -- Delta Schema Network in Model-based Reinforcement Learning -- Information Digital Twin {Enabling Agents to Anticipate Changes in their Tasks -- 'OpenNARS for Applications': Architecture and Control -- Towards AGI Agent Safety by Iteratively Improving the Utility Function -- Learning to Model Another Agent's Beliefs: A Preliminary Approach -- An Attentional Control Mechanism for Reasoning and Learning -- Hyperdimensional Representations in Semiotic Approach to AGI -- The Conditions of Artificial General Intelligence: Logic, Autonomy, Resilience, Integrity, Morality, Emotion, Embodiment, and Embeddedness -- Position paper: The use of engineering approach in creation of artificial general intelligence -- How do you test the strength of AI? -- Omega: An Architecture for Al Unification -- Analyzing Elementary School Olympiad Math Tasks as a Benchmark for AGI -- The meaning of things as a concept in a strong AI architecture -- Toward a General Believable Model of Human-Analogous Intelligent Socially Emotional Behavior --Autonomous Cumulative Transfer Learning -- New Brain Simulator II Open-Source Software -- Experience-specific AGI Paradigms --Psychological portrait of a virtual agent in the Teleport game paradigm -- Logical probabilistic biologically inspired cognitive architecture --An Architecture for Real-time Reasoning and Learning -- A Model for Artificial General Intelligence.

## Sommario/riassunto

This book constitutes the refereed proceedings of the 13th International Conference on Artificial General Intelligence, AGI 2020, held in St. Petersburg, Russia, in September 2020. The 30 full papers and 8 short papers presented in this book were carefully reviewed and selected from 60 submissions. The papers cover topics such as AGI architectures, artificial creativity and AI safety, transfer learning, AI unification and benchmarks for AGI.