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Descrizione fisica	1 online resource (483 pages)
Collana	Lecture Notes in Artificial Intelligence, , 2945-9141 ; ; 13539
Disciplina	006.3
Soggetti	Artificial intelligence Computer engineering Computer networks Software engineering Application software Artificial Intelligence Computer Engineering and Networks Software Engineering Computer and Information Systems Applications
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Accepted for poster presentation -- A General Purpose Machine Reasoning Engine -- COMFO: Multilingual Corpus for Opinion Mining -- Information as Entanglement—A Framework for Artificial General Intelligence -- Causal Analysis of Generic Time Series Data Applied for Market Prediction -- Dynamic and Evolving Neural Network for event discrimination -- Hierarchical temporal DNN and Associative knowledge representation -- MARTI: new model of human brain, considering neocortex and basal ganglia – learns to play Atari game by reinforcement learning on a single CPU -- General-Purpose Minecraft Agents and Hybrid AGI -- Graph Strategy for Interpretable Visual Question Answering -- Analogical Problem Solving in the Causal Cognitive Architecture -- A Biologically Plausible Graph Structure for AGI -- The Delta Normal AGI -- Purely Symbolic Induction of Structure

-- Accepted for full oral presentation -- Extended subdomains: a solution to a problem of Hernández-Orallo and Dowe -- Versatility-Efficiency Index (VEI): Towards a Comprehensive Definition of Intelligence Quotient (IQ) for Artificial General Intelligence (AGI) Agents -- Moral Space for Paraconsistent AGI -- PERI.2 Goes to PreSchool and Beyond, in Search of AGI -- Reinforcement Learning with Information-Theoretic Actuation -- Homomorphisms Between Transfer, Multi-Task, and Meta-Learning Systems -- Core and Periphery as Closed-System Precepts for Engineering General Intelligence -- Toward Generating Natural-Language Explanations of Modal Logic Proofs -- ONA for autonomous ROS-based robots -- Generalized Identity Matching in NARS -- Adaptive Multi-Strategy Market-Making Agent For Volatile Markets -- Toward a Comprehensive List of Necessary Abilities for Human Intelligence, Part 2: Using Knowledge -- What can nonhuman animals, children, and g tell us about human-level artificial general intelligence (AGI)? -- Toward a Comprehensive List of Necessary Abilities for Human Intelligence, Part 1: Constructing Knowledge -- Cognitive Architecture for Co-Evolutionary Hybrid Intelligence -- An approach to generation triggers for parrying backdoor in neural networks -- The Learning Agent Triangle: Towards a unified disambiguation of the AGI challenge. -- Maze Learning using a Hyperdimensional Predictive Processing Cognitive Architecture -- Market Prediction as a Task for AGI Agents -- Monte Carlo Bias Correction in Q-learning -- Free Will Belief as a Consequence of Model-based Reinforcement Learning -- Thoughts on Architecture -- On the possibility of regulation of human emotions via multimodal social interaction with an embodied agent controlled by eBICA-based emotional interaction model -- QKSA: Quantum Knowledge Seeking Agent -- Elements of Active Continuous Learning and Uncertainty Self-Awareness: a Narrow Implementation for Face and Facial Expression Recognition -- Thrill-K Architecture: Towards a Solution to the Problem of Knowledge Based Understanding -- Grammar Induction - Experimental Results -- Brain Principles Programming -- A meta-probabilistic-programming language for bisimulation of probabilistic and non-well-founded type systems -- Artificial Open World for Evaluating AGI: a Conceptual Design -- Ownability of AGI.

Sommario/riassunto

This book constitutes the refereed proceedings of the 15th International Conference on Artificial General Intelligence, AGI 2022, held as a hybrid event in Seattle, WA, USA, in August 2022. The 31 full papers presented in this book were carefully reviewed and selected from 61 submissions. The papers cover topics from foundations of AGI, to AGI approaches and AGI ethics, to the roles of systems biology, goal generation, and learning systems, and so much more. Additionally, this volume contains 13 posters.