

Marcus Hutter



Universal Artificial Intelligence

Sequential Decisions
Based on Algorithmic Probability

Universal Artificial Intelligence Sequential Decisions Based On Algorithmic Probability

David L. Dowe



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85th memorial conference was held at Monash University's Clayton campus in Melbourne Australia as a tribute to pioneer Ray Solomonoff 1926 2009 honouring his various pioneering works most particularly his revolutionary insight in the early 1960s that the universality of Universal Turing Machines UTMs could be used for universal Bayesian prediction and artificial intelligence machine learning This work continues to increasingly influence and underpin statistics econometrics machine learning data mining inductive inference search algorithms data compression theories of general intelligence and philosophy of science and applications of these areas Ray not only envisioned this as the path to genuine artificial intelligence but also still in the 1960s anticipated stages of progress in machine intelligence which would ultimately lead to machines surpassing human intelligence Ray warned of the need to anticipate and discuss the potential consequences and dangers sooner rather than later Possibly foremostly Ray Solomonoff was a fine happy frugal and adventurous human being of gentle resolve who managed to fund himself while electing to conduct so much of his paradigm changing research outside of the university system The volume contains 35 papers pertaining to the abovementioned topics in tribute to Ray Solomonoff and his legacy

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Multi-UAV Planning and Task Allocation Yasmina Bestaoui Sebbane, 2020-03-27 Multi robot systems are a major research topic in robotics Designing testing and deploying aerial robots in the real world is a possibility due to recent technological advances This book explores different aspects of cooperation in multiagent systems It covers the team approach as well as deterministic decision making It also presents distributed receding horizon control as well as conflict resolution artificial potentials and symbolic planning The book also covers association with limited communications as well as genetic algorithms and game theory reasoning Multiagent decision making and algorithms for optimal planning are also covered along with case

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