Record Nr. UNINA9910781665003321 Metareasoning: thinking about thinking / / edited by Michael T. Cox **Titolo** and Anita Raja; foreword by Eric Horvitz Pubbl/distr/stampa Cambridge, Mass., : MIT Press, ©2011 ©2011 **ISBN** 0-262-30935-1 1-283-25854-4 9786613258540 0-262-29528-8 Descrizione fisica 1 online resource (349 p.) Altri autori (Persone) CoxMichael T. <1955-> RajaAnita <1975-> Disciplina 006.3 Soggetti Artificial intelligence Reasoning (Psychology) Intellect Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Cover; Contents; Foreword; I Basic Themes; 1 Metareasoning; 2 There's No "Me" in "Meta"-Or Is There?: 3 Metareasoning and Bounded Rationality; II Metalevel Control; 4 Learning Expertise with Bounded Rationality and Self-Awareness; 5 Controlling Deliberation in Coordinators; 6 Goal-Directed Metacontrol for Integrated Procedure Learning: 7 Metareasoning for Multispectral Satellite Image Interpretation; 8 Metareasoning as a Formal Computational Problem; III Introspective Monitoring; 9 Metareasoning, Monitoring, and Self-Explanation; 10 Metareasoning for Self-Adaptation in Intelligent Agents 11 Using Introspective Reasoning to Improve CBR System Performance12 The Metacognitive Loop and Reasoning about Anomalies; IV Distributed Metareasoning; 13 Coordinating Agents' Metalevel Control; 14 The Role of Metareasoning in Achieving Effective Multiagent Coordination; 15 Distributed Metamanagement for Self-Protection and Self-Explanation: 16 Weighted Prediction Divergence for

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This text offers a simple model of reasoning about reason as a framework for its discussions. Following this framework, the contributors consider meta-level control of computational activities, introspective monitoring, distributed meta-reasoning, and, putting all these aspects of meta- reasoning together.