1. Record Nr. UNINA9910798453103321

Autore Boden Margaret A.

Titolo AI: its nature and future / / Margaret A. Boden

Pubbl/distr/stampa Oxford, England:,: Oxford University Press,, 2016

©2016

**ISBN** 0-19-108348-8

Descrizione fisica 1 online resource (209 pages)

006.3 Disciplina

Soggetti Artificial intelligence

Artificial intelligence - Social aspects

artificial intelligence **COMPUTERS - General** 

Lingua di pubblicazione Inglese

**Formato** Materiale a stampa

Livello bibliografico Monografia

Note generali Description based upon print version of record.

Nota di bibliografia Includes bibliographical references and index.

Nota di contenuto COVER; ITS NATURE AND FUTURE; COPYRIGHT; DEDICATION;

ACKNOWLEDGMENTS; CONTENTS; LIST OF FIGURES; Chapter 1: What

is Artificial Intelligence?; Virtual Machines; The Major Types of AI; AI Foreseen; How Al Began; Cybernetics; How Al Divided; Chapter 2: General Intelligence as the Holy Grail; Supercomputers aren't Enough; Heuristic Search: Planning: Mathematical Simplification: Knowledge Representation; Rule-Based Programs; Frames, Word-Vectors, Scripts. Semantic Nets; Logic and the Semantic Web; Computer Vision; The

Frame Problem: Agents and Distributed Cognition

Machine Learning Generalist Systems; The Dream Revitalized; Missing Dimensions; Chapter 3: Language, Creativity, Emotion; Language; Creativity: Al and Emotion: Chapter 4: Artificial Neural Networks: The Wider Implications of ANNs: Parallel Distributed Processing: Learning in Neural Networks; Backprop and Brains-And Deep Learning; Network Scandal; Connections aren't Everything; Hybrid Systems; Chapter 5: Robots and Artificial Life; Situated Robots and Interesting Insects; Evolutionary AI; Self-Organization; Chapter 6: But is it Intelligence,

Really?: The Turing Test

The Many Problems of Consciousness Machine Consciousness: Al and

Phenomenal Consciousness; Virtual Machines and the Mind-Body

Problem; Meaning and Understanding; Is Neuroprotein Essential?; Not Just Brain, but Body too; Moral Community; Morality, Freedom, and Self; Mind and Life; The Great Philosophical Divide; Chapter 7: The Singularity; Prophets of the Singularity; Competing Predictions; Skepticism Defended; Whole-Brain Emulation; What We Should be Worrying about; What's being Done about it; REFERENCES; ENDNOTES; Chapter 1; Chapter 2; Chapter 3; Chapter 4; Chapter 5 Chapter 6 Chapter 7; INDEX

## Sommario/riassunto

Artificial Intelligence surrounds us; in our homes, schools and offices, in our cinemas, in art galleries and - not least - on the Internet.

Margaret Boden considers the realistic and unrealistic expectations we have placed on AI, analyses its progress, and considers the value of its byproducts.