



## 50 years of artificial intelligence : essays dedicated to the 50th anniversary of artificial intelligence /

Lungarella, Max

Springer,  
2007

Congress Homenajes Conference papers and proceedings. Conference papers and proceedings. Homenajes Actes de congrès.

Monografía

This Festschrift volume, published in celebration of the 50th Anniversary of Artificial Intelligence, includes 34 refereed papers written by leading researchers in the field of Artificial Intelligence. The papers were carefully selected from the invited lectures given at the 50th Anniversary Summit of AI, held at the Centro Stefano Franscini, Monte Verità, Ascona, Switzerland, July 9-14, 2006. The summit provided a venue for discussions on historical, business, political and educational perspectives of AI; scientific exchange on the state of the art; speculations about the future; contributions by researchers from different but related areas; presentations of the latest research by top scientists in the field; as well as many informal discussions among the participants and visitors. The selected papers reflect the breadth of the topics presented and discussed at the summit, covering subjects ranging from the history and prospects of AI, to speech recognition and processing, linguistics, bionics, and consciousness. The papers are organized in topical sections on Historical and Philosophical Issues; Information Theory and Quantification; Morphology and Dynamics; Neurorobotics; Machine Intelligence, Cognition, and Natural Language Processing; Human-Like Intelligence: Motivation, Emotions, and Consciousness; Robot Platforms; and Art and AI

<https://rebiunoda.pro.baratznet.cloud:38443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzI2MTIyMTM>

**Título:** 50 years of artificial intelligence essays dedicated to the 50th anniversary of artificial intelligence Max Lungarella [and others] (eds.).

**Editorial:** Berlin New York Springer 2007

**Descripción física:** 1 online resource (x, 398 pages) illustrations

**Tipo Audiovisual:** simulatiemodellen simulation models computerwetenschappen computer sciences kunstmatige intelligentie artificial intelligence computational science datamining data mining patroonherkenning pattern recognition software engineering Information and Communication Technology (General) Informatie- en communicatietechnologie (algemeen)

**Variantes del título:** Fifty years of artificial intelligence

**Mención de serie:** LNCS sublibrary. SL 7, Artificial intelligence Lecture notes in computer science 0302-9743 4850. Lecture notes in artificial intelligence Festschrift

**Bibliografía:** Includes bibliographical references and index

**Contenido:** Historical and Philosophical Issues -- AI in the 21st Century -- With Historical Reflections -- The Physical Symbol System Hypothesis: Status and Prospects -- Fifty Years of AI: From Symbols to Embodiment -- and Back -- 2006: Celebrating 75 Years of AI -- History and Outlook: The Next 25 Years -- Evolutionary Humanoid Robotics: Past, Present and Future -- Philosophical Foundations of AI -- On the Role of AI in the Ongoing Paradigm Shift within the Cognitive Sciences -- Information Theory and Quantification -- On the Information Theoretic Implications of Embodiment -- Principles and Methods -- Development Via Information Self-structuring of Sensorimotor Experience and Interaction -- How Information and Embodiment Shape Intelligent Information Processing -- Preliminary Considerations for a Quantitative Theory of Networked Embodied Intelligence -- A Quantitative Investigation into Distribution of Memory and Learning in Multi Agent Systems with Implicit Communications -- Morphology and Dynamics -- AI in Locomotion: Challenges and Perspectives of Underactuated Robots -- On the Task Distribution Between Control and Mechanical Systems -- Bacteria Integrated Swimming Microrobots -- Adaptive Multi-modal Sensors -- Neurorobotics -- What Can AI Get from Neuroscience? -- Dynamical Systems in the Sensorimotor Loop: On the Interrelation Between Internal and External Mechanisms of Evolved Robot Behavior -- Adaptive Behavior Control with Self-regulating Neurons -- Brain Area V6A: A Cognitive Model for an Embodied Artificial Intelligence -- The Man-Machine Interaction: The Influence of Artificial Intelligence on Rehabilitation Robotics -- Machine Intelligence, Cognition, and Natural Language Processing -- Tests of Machine Intelligence -- A Hierarchical Concept Oriented Representation for Spatial Cognition in Mobile Robots -- Anticipation and Future-Oriented Capabilities in Natural and Artificial Cognition -- Computer-Supported Human-Human Multilingual Communication -- Human-Like Intelligence: Motivation, Emotions, and Consciousness -- A Paradigm Shift in Artificial Intelligence: Why Social Intelligence Matters in the Design and Development of Robots with Human-Like Intelligence -- Intrinsically Motivated Machines -- Curious and Creative Machines -- Applying Data Fusion in a Rational Decision Making with Emotional Regulation -- How to Build Consciousness into a Robot: The Sensorimotor Approach -- Robot Platforms -- A Human-Like Robot Torso ZAR5 with Fluidic Muscles: Toward a Common Platform for Embodied AI -- The iCub Cognitive Humanoid Robot: An Open-System Research Platform for Enactive Cognition -- Intelligent Mobile Manipulators in Industrial Applications: Experiences and Challenges -- Art and AI -- The Dynamic Darwinian Diorama: A Landlocked Archipelago Enhances Epistemology

**Lengua:** English

**Copyright/Depósito Legal:** 184909941 227333712 288304397 488893235 613680241 870243732 880101732 1012456363 1044291755 1056360287 1071780175 1073053697 1086999620 1110254121 1110740206 1112556739 1170255793 1171961314 1204012836 1229218284 1238401695 1257085958 1259210035 1374609056

**ISBN:** 9783540772965 3540772960 9783540772958 3540772952 9788354077299 5) 8354077292

**Materia:** Artificial intelligence- Congresses Intelligence artificielle- Congrès Artificial intelligence. Informatique. Artificial intelligence.

**Autores:** Lungarella, Max

**Enlace a formato físico adicional:** Print version 50 years of artificial intelligence. Berlin ; New York : Springer, 2007 9783540772958 3540772952 (DLC) 2007941079 (OCoLC)185038878

**Punto acceso adicional serie-Título:** LNCS sublibrary. SL 7 Artificial intelligence Lecture notes in computer science 4850 Lecture notes in computer science. Lecture notes in artificial intelligence Lecture notes in computer science. Festschrift

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- [informa@baratz.es](mailto:informa@baratz.es)