

1. Record Nr.	UNINA9910467770503321
Autore	Saleh Lait Abu <1980->
Titolo	Implant system for the recording of internal muscle activity to control a hand prosthesis // von Lait Abu Saleh, aus Majdal Shams, Golanhohen
Pubbl/distr/stampa	Berlin : , : Logos Verlag Berlin, , [2015]
ISBN	3-8325-9432-9
Descrizione fisica	1 online resource (xiii, 198 pages) : illustrations
Collana	Wissenschaftliche Beitrage zur Medizinelektronik ; ; Volume 5
Disciplina	617.575
Soggetti	Medical innovations Artificial hands Biomedical materials Prosthesis Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Vom Promotionsausschuss der Technischen Universitat Hamburg-Harburg zur Erlangung des akademischen Grades Doktor-Ingenieur (Dr. -Ing.) genehmigte Dissertation, von Lait Abu Saleh, aus, Majdal Shams, Golanhohen, 2015".
Nota di bibliografia	Includes bibliographical references.

2. Record Nr.	UNISA996465394603316
Titolo	50 Years of Artificial Intelligence [[electronic resource] ] : Essays Dedicated to the 50th Anniversary of Artificial Intelligence // edited by Max Lungarella, Fumiya Iida, Josh Bongard, Rolf Pfeifer
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2007
ISBN	3-540-77296-0
Edizione	[1st ed. 2007.]
Descrizione fisica	1 online resource (X, 399 pages)
Collana	Lecture Notes in Artificial Intelligence ; ; 4850
Disciplina	006.3
Soggetti	Artificial intelligence Software engineering Computers Data mining Computer simulation Pattern recognition Artificial Intelligence Software Engineering Computation by Abstract Devices Data Mining and Knowledge Discovery Simulation and Modeling Pattern Recognition
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	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.

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### Sommario/riassunto

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.

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