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	Altri autori (Persone)	GianniniGianluca
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	Soggetti	Neurosciences
		Cognitive neuroscience
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		Moral Philosophy and Applied Ethics
		Ethics of Technology
	Lingua di pubblicazione	Inglese
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	Livello bibliografico	Monografia
	Nota di contenuto	Part I DIGITAL HUMANISM -- Technologies, Artificial Intelligence, and Sapiens -- Sapiens' Future in the Age of Artificial World Picture -- Biomimetic Learning Design in the Artificial Era -- Robots and Humans -- Exploring the Current State and Future Potential of Generative Artificial Intelligence using a Generative Artificial Intelligence -- Part II DIGITAL MIND -- Self-Identity, Self-Regulated Learning, and Intelligent Adaptive Systems -- Supporting Learners' Metacognition and Meta-affect -- Understanding Consciousness in the Age of AI and XR: Altered States, Emerging Realities, and the Digital Self -- Learner Modeling

Interpretability and Explainability in Intelligent Adaptive Systems -- Deep Learning in Educational Scenario -- Augmented Reality in Higher Education -- An Exploratory Study on the Beliefs of Medical Students -- Part III DIGITAL BODY AND DIGITAL BRAINS -- Brain-Computer Interactions, Neuroergonomics, and Psychomotor Learning -- Brain-Computer Interaction and Neuroergonomics -- Non-Invasive Modulation of Brain Activity during Human-Machine Interactions -- Environmental Enrichment in Real and Virtual Realms Fosters Neural Plasticity Related to Learning and Memory Processes -- AI-Powered Psychomotor Learning through Basketball Practice: Opportunities and Challenges -- The Intelligence of the Hands -- Part IV DIGITAL REVOLUTION -- Ethical, Philosophical, and Technological Cooperation -- Cyber Warfare and Ethical Frontiers: Elevating Conflict to the Digital Frontline of Global Struggles -- Cooperation, Law, and Artificial Intelligence Technologies -- Algorithmic Citizenship: Fostering Democracy, Inclusion and Explainability in the Era of Artificial Intelligence -- Life-on-life: Humanism facing the Challenges of Artificial Intelligence.

| Sommario/riassunto | This book—Mind, Body, and Digital Brains—focuses on both theoretical and empirical issues and joins contributions from different disciplines, concepts, and sensibilities, bringing together scholars from fields that at first glance may appear different—Neuroscience and Cognitive Neuroscience; Robotics, Computer Science, Deep Learning, and Information Processing Systems; Education, Philosophy, Law, and Psychology. All these research fields are held together by the very object to be discussed: a broad, articulate, and polyphonic reflection on the status of theories and fields of application of Digital Technologies and Artificial Intelligence, seen from the perspective of the digital mind, digital body, and digital brain. Scientific and humanistic issues will be considered through an interdisciplinary point of view, with the purpose of deepening emerging trends about various disciplines. This book offers a framework for different perspectives and, at the same time, a platform for discussion aimed not only at experts, but also at a non-specialist public interested in the digital revolution. The digital revolution is emerging from the intertwining of ethical, philosophical, and technological aspects, which concern several general issues as cooperation, law, and environment, but also specialized as cybersecurity or algorithmic citizenship. More questions arise, concerning which opportunities and risks are associated with the new scenarios, what idea of humanity is emerging from the increasingly widespread use of Artificial Intelligence technologies, and what idea of integrated science should we promote to accompany the ongoing transformations. |