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Titolo	Neuromorphic Computing / / Yang Yi, Hongyu An
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ISBN	1-80356-144-0
Descrizione fisica	1 online resource (296 pages)
Disciplina	612.82
Soggetti	Neural networks & fuzzy systems Neural networks (Neurobiology)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. End-to-End Benchmarking of Chiplet-Based In-Memory Computing -- 2. Implementation of Associative Memory Learning in Mobile Robots Using Neuromorphic Computing -- 3. Study of RRAM-Based Binarized Neural Networks Inference Accelerators Using an RRAM Physics-Based Compact Model -- 4. Enabling Neuromorphic Computing for Artificial Intelligence with Hardware-Software Co-Design -- 5. Neuromorphic Computing between Reality and Future Needs -- 6. A Study of the Comparison between Artificial Neural Networks, Logistic Regression and Similarity Weighted Instance-Based Learning in Modeling and Predicting Trends in Deforestation -- 7. Spiking Neural Encoding and Hardware Implementations for Neuromorphic Computing -- 8. Cortical Columns Computing Systems: Microarchitecture Model, Functional Building Blocks, and Design Tools -- 9. Artificial Intelligence Approaches for Studying the pp Interactions at High Energy Using Adaptive Neuro-Fuzzy Interface System -- 10. Study of Approaches to Predict Personality Using Digital Twin -- 11. Scaling Subspace-Driven Approaches Using Information Fusion.
Sommario/riassunto	Dive into the cutting-edge world of and #60;i and #62;Neuromorphic Computing and #60;/i and #62;, a groundbreaking volume that unravels the secrets of brain-inspired computational paradigms. Spanning neuroscience, artificial intelligence, and hardware design, this book presents a comprehensive exploration of neuromorphic systems, empowering both experts and newcomers to embrace the limitless

	potential of brain-inspired computing. Discover the fundamental principles that underpin neural computation as we journey through the origins of neuromorphic architectures, meticulously crafted to mimic the brain s intricate neural networks. Unlock the true essence of learning mechanisms - unsupervised, supervised, and reinforcement learning - and witness how these innovations are shaping the future of artificial intelligence.

2.

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Disciplina	500.2/05
Soggetti	Science Engineering Electrical engineering Sciences Ingenierie Electrotechnique Recherche Sciences (Disciplines scientifiques) Periodicals. Ressource Internet (Descripteur de forme) Periodique electronique (Descripteur de forme)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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