

1. Record Nr.	UNISALENTO991002154069707536
Autore	Proudhon, Pierre Joseph
Titolo	De la justice dans la Révolution et dans l'Église : [études de philosophie pratique] / Pierre-Joseph Proudhon ; texte revu par Rosemarie Férenczi ... [et al.]
Pubbl/distr/stampa	Paris : Fayard, 1988-
Descrizione fisica	4 v. ; 23 cm
Collana	Corpus des oeuvres de philosophie en langue française
Altri autori (Persone)	Ferenczi, Rosemarie
Altri autori (Enti)	Centre national des lettres Francia.Ministère de la recherche Francia.Ministère de la culture
Disciplina	354.4400
Soggetti	Giustizia - Amministrazione - Francia Rivoluzione francese - Amministrazione giudiziaria Ordinamento giudiziario - Francia Cristianesimo - Storia
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Livello bibliografico	Monografia
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2.	Record Nr.	UNIORUON00042772
	Autore	BRETANICKIJ, Leonid S.
	Titolo	Baku / L. Bretanickij
	Pubbl/distr/stampa	Moskva ; Leningrad, : Izd. "Iskusstvo", 1970
	Descrizione fisica	245 p. : fig. ; 12 cm
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	Lingua di pubblicazione	Russo
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	Livello bibliografico	Monografia
3.	Record Nr.	UNINA9910574048803321
	Autore	Ben Abdallah Abderazek
	Titolo	Neuromorphic Computing Principles and Organization / / by Abderazek Ben Abdallah, Khanh N. Dang
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
	ISBN	3-030-92525-0
	Edizione	[1st ed. 2022.]
	Descrizione fisica	1 online resource (260 pages)
	Collana	Computer Science Series
	Disciplina	006.32
	Soggetti	Microprocessors Computer architecture Database management Artificial intelligence Computational intelligence Processor Architectures Database Management System Artificial Intelligence Computational Intelligence
	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	1 Introduction to Neuromorphic Computing Systems -- 2 Neuromorphic System Design Fundamentals -- 3 Learning in Neuromorphic Systems -- 4 Emerging Memory Devices for Neuromorphic Systems -- 5 Communication Networks for Neuromorphic Systems -- 6 Fault-Tolerant Neuromorphic System Design -- 7 Reconfigurable Neuromorphic Computing System -- 8 Case Study: Real Hardware-Software Design of 3D-NoC-based Neuromorphic System -- 9 Survey of Neuromorphic Systems.
Sommario/riassunto	<p>This book focuses on neuromorphic computing principles and organization and how to build fault-tolerant scalable hardware for large and medium scale spiking neural networks with learning capabilities. In addition, the book describes in a comprehensive way the organization and how to design a spike-based neuromorphic system to perform network of spiking neurons communication, computing, and adaptive learning for emerging AI applications. The book begins with an overview of neuromorphic computing systems and explores the fundamental concepts of artificial neural networks. Next, we discuss artificial neurons and how they have evolved in their representation of biological neuronal dynamics. Afterward, we discuss implementing these neural networks in neuron models, storage technologies, inter-neuron communication networks, learning, and various design approaches. Then, comes the fundamental design principle to build an efficient neuromorphic system in hardware. The challenges that need to be solved toward building a spiking neural network architecture with many synapses are discussed. Learning in neuromorphic computing systems and the major emerging memory technologies that promise neuromorphic computing are then given. A particular chapter of this book is dedicated to the circuits and architectures used for communication in neuromorphic systems. In particular, the Network-on-Chip fabric is introduced for receiving and transmitting spikes following the Address Event Representation (AER) protocol and the memory accessing method. In addition, the interconnect design principle is covered to help understand the overall concept of on-chip and off-chip communication. Advanced on-chip interconnect technologies, including si-photonic three-dimensional interconnects and fault-tolerant routing algorithms, are also given. The book also covers the main threats of reliability and discusses several recovery methods for multicore neuromorphic systems. This is important for reliable processing in several embedded neuromorphic applications. A reconfigurable design approach that supports multiple target applications via dynamic reconfigurability, network topology independence, and network expandability is also described in the subsequent chapters. The book ends with a case study about a real hardware-software design of a reliable three-dimensional digital neuromorphic processor geared explicitly toward the 3D-ICs biological brain's three-dimensional structure. The platform enables high integration density and slight spike delay of spiking networks and features a scalable design. We present methods for fault detection and recovery in a neuromorphic system as well. Neuromorphic Computing Principles and Organization is an excellent resource for researchers, scientists, graduate students, and hardware-software engineers dealing with the ever-increasing demands on fault-tolerance, scalability, and low power consumption. It is also an excellent resource for teaching advanced undergraduate and graduate students about the</p>

fundamentals concepts, organization, and actual hardware-software
design of reliable neuromorphic systems with learning and fault-
tolerance capabilities.
