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Titolo	Proceedings of the 1st Electrical Artificial Intelligence Conference, Volume 3 : EAIC 2024, 6-8 December, Nanjing, China // edited by Ronghai Qu, Zhengxiang Song, Zhiming Ding, Gang Mu, Rui Xiong, Li Han
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Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 1396
Disciplina	621.3
Soggetti	Electrical engineering Artificial intelligence Electric power production Electric power distribution Electrical and Electronic Engineering Artificial Intelligence Mechanical Power Engineering Energy Grids and Networks
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Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Global Efficiency Optimization of High-Gain IPOP System Based on Genetic Algorithm -- Chapter 2. IGBT Open-Circuit Fault Diagnosis of MMC Submodules Based on Tensor Data-Driven Approach -- Chapter 3. Study on the diagnosis of industrial robot abnormalities based on SVDD -- Chapter 4. Small defect detection of power electronic devices based on YOLO-DHGC -- Chapter 5. Research on Parallel Multimodal Current Sharing Based on Merged Coupled Inductance -- Chapter 6. Study on Fault Diagnosis of Power Electronic Devices in Power Conversion System Based on Machine Learning -- Chapter 7. Power Electronics Topology Derivation: A Technical Review and Cutting-edge Exploration.
Sommario/riassunto	This book is the third volume of proceedings of the 1st Electrical Artificial Intelligence Conference (EAIC 2024). Artificial intelligence and low-carbon economy are two vibrant research fields in the world today.

To achieve the goal of carbon neutrality not only signifies a significant transformation in the economic growth mode and a profound adjustment of energy systems but also has equally significant implications for the global economic and social transformation. In the wave of the rapid development of digital economy, artificial intelligence has become an important driving force for promoting high-quality economic and social development. In the path to the “dual carbon” goals, which are the “peak carbon dioxide emissions” goal and the “carbon neutrality” goal, artificial intelligence will play an important role, especially in energy conservation and carbon reduction in the electrical field, which is worthy of in-depth exploration and research. In order to promote the deep integration of the electrical engineering and artificial intelligence, successfully achieve the "dual carbon" goals, and promote green, low-carbon, and high-quality development, the China Electrotechnical Society and relevant units jointly held the 1st Electrical Artificial Intelligence Conference in Nanjing, China during the December 6–8, 2024. The conference invited well-known experts with significant influence in the fields of electrical engineering and artificial intelligence to jointly explore the application of artificial intelligence in the optimization design, fault diagnosis, intelligent control, and optimized operation of electrical equipment, promote the integration of artificial intelligence innovations and various application scenarios, and actively lead the trend of technological innovation.

2. Record Nr.	UNICAMPANIAVAN00296497
Autore	Mandrioli, Crisanto
Titolo	1: Disposizioni generali / Crisanto Mandrioli, Antonio Carratta
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Titolo uniforme	Nozioni introduttive e disposizioni generali
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