1. Record Nr. UNINA9910983049003321

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Titolo	Innovations in Electrical and Electronics Engineering : Proceedings of ICEEE 2024, Volume 1 / / edited by Akhtar Kalam, Saad Mekhilef, Sheldon S. Williamson
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	9789819790371 9819790379
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (0 pages)
Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 1294
Altri autori (Persone)	MekhilefSaad WilliamsonSheldon S
Disciplina	621.3
Soggetti	Automatic control Robotics Automation Telecommunication Artificial intelligence Electric power production Control, Robotics, Automation Microwaves, RF Engineering and Optical Communications Artificial Intelligence Electrical Power Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Integrating Industrial PV Battery Systems with Utility Grid: Techno Economic Analysis for an Industry -- 2. Performance investigation of a vacuum enhanced direct contact membrane distillation coupled with a photovoltaic thermal system -- 3. Analysis of Different Energy Storage Characteristic under Load Using BLDC Motor of Electric Scooter -- 4. Maximizing Customer Satisfaction and Grid Resilience through a Three Tiered Energy Bidding Framework -- 5. Rolling Bearing Fault Classification Multinomial Logistic Regression Approach for Enhanced Efficiency -- 6. A Study on Source Degenerated Telescopic OpAmp for Biomedical Applications -- 7. A Comparative Analysis of Different

	Optimization Algorithms for Optimal System Reconfiguration to Improve the Radial Distribution Network in Iraq -- 8. Enhancing User Experience by Tackling the Cold Start Challenge in Product Recommendation System.
Sommario/riassunto	This book features selected high-quality papers presented at the 2024 International Conference on Electrical and Electronics Engineering (ICEEE 2024), jointly organized by ADSRS Education and Research and Swinburne University of Technology, Melbourne, Australia, during September 11–12, 2024, at Advanced Technologies Centre, Swinburne University of Technology, 427-451 Burwood Rd, Hawthorn VIC 3122. The book covers electrical engineering topics–power and energy including renewable energy, power electronics and applications, control, and automation and instrumentation, and book two covers the areas of robotics, artificial intelligence and IoT, electronics devices, circuits and systems, wireless and optical communication, RF and microwaves, VLSI, and signal processing, and others. The book brings both single- and multidisciplinary research on these topics to provide the most up-to-date information in one place. The book offers an asset for researchers from both academia and industries involved in advanced studies.