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Soggetti	Telecommunication Cooperating objects (Computer systems) Computational intelligence Artificial intelligence Communications Engineering, Networks Cyber-Physical Systems Computational Intelligence Artificial Intelligence
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Sustainable computing in Healthcare -- IoT for Contemporary Life -- Artificial Intelligence in Multimedia Technology -- Artificial Intelligence in Security and Surveillance -- Artificial Intelligence in Big Data Analytics -- Engineering design for sustainable development using IOT/AI -- Intelligent and Smart Grid Systems -- Sustainable computing in Energy conservation -- Sustainable computing in Society 5.0 -- Artificial Intelligence in Geo-Politics -- Cyber Physical System for Social Problems -- Artificial Intelligence and Machine Learning in Healthcare -- Open Challenges in Society 5.0 -- Economic empowerment using AI/ML/IoT -- Machine Learning and Computing for Sustainable Development Goals -- Deep Learning for Society 5.0 -- Intelligent and Smart Farming for Society 5.0 --

Technological Innovation in Industry 4.0 -- Artificial Intelligence in E-Governance -- Deep Learning in E-Governance -- Conclusion.

Sommario/riassunto

This book presents recent advancements in Industry 4.0 and addresses how these can be useful in achieving sustainable solutions in Society 5.0. The book also serves as a reference for developing sustainable engineering solutions to various socio-economic and techno-commercial issues. The book is meticulously structured into two sections: Section I sheds light on fundamentals, nitty-gritties, and principles of technological innovations and advancement in artificial intelligence, cloud computing, industrial Internet of Things (IIOT), and Society 5.0, whereas Section II covers viable engineering solutions developments for revamping Industry 4.0 to Society 5.0. Overall, the authors aim to show how technological advancements can be used to address social issues and improve society. Outlines how advancements in Industry 4.0 can translate to sustainable solutions for Society 5.0; Discusses sustainable engineering solutions for various socio-economic and techno-commercial issues; Presents how AI is applied in Smart Farming, Smart Homes, Smart Healthcare, and Smart Factories.