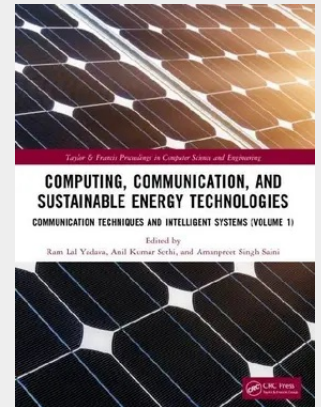


Computing, Communication, and Sustainable Energy Technologies

Communication Techniques and Intelligent Systems (Volume 1)

This book emerges from the exchange of research insights and innovative ideas in the domains of Computing, Communication, and Sustainable Energy Technologies, with a focused emphasis on Communication Techniques and Intelligent Systems. It brings together contemporary research addressing smart computing paradigms, intelligent communication frameworks, and sustainable energy-driven technological solutions. With special attention to intelligent networks, signal processing, IoT-enabled systems, machine learning applications, and smart energy management, this proceedings volume serves as a comprehensive resource on technologies driving next-generation sustainable and intelligent systems. Key features of this book include: - A broad exploration of current research trends in communication techniques, intelligent systems, and sustainable energy technologies. - Detailed presentations of system models, algorithms, and architectures demonstrating real-world applications of intelligent communication and computing systems. - In-depth discussions on the role of intelligent systems in areas such as wireless communication, smart grids, IoT, automation, and energy-efficient technologies. - Analytical insights into challenges, emerging opportunities, and future research directions in sustainable communication and intelligent computing solutions. This book is intended for research scholars, academicians, undergraduate and postgraduate students, Ph.D. candidates, industry professionals, technologists, and researchers seeking to enhance their understanding of intelligent communication systems and sustainable technological innovations.

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