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Altri autori (Persone)	ZafarSherin AhadMohd Abdul AlamM. Afshar ShakilKashish Ara
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Nota di contenuto	Cover -- Half Title -- Series Page -- Title Page -- Copyright Page -- Table of Contents -- Preface -- Editors -- Contributors -- Chapter 1 Green Computing in Wireless Sensor Networks through Energy-Efficient Techniques for Lifetime Improvement -- 1.1 Introduction -- 1.2 Taxonomy of Energy-Efficient Routing Protocols -- 1.2.1 Energy Conservation Techniques -- 1.3 Energy-Efficient Routing Protocols in WSN -- 1.4 Hierarchical Routing Protocols -- 1.4.1 Classical-Based Clustering Protocols -- 1.4.1.1 Centralized and Distributive Clustering -- 1.4.2 Meta-Heuristic-Based Clustering Protocols -- 1.5 Experimental Review of Leach Protocol -- 1.5.1 Simulation of LEACH -- 1.5.2 Simulation Results -- 1.5.3 Analysis of LEACH Protocol -- 1.6 Summary -- References -- Chapter 2 Challenges and Opportunities with Green and Sustainable Computing in Healthcare -- 2.1 Introduction -- 2.2 Applications of Technology in the Healthcare Sector -- 2.3 Strategies to Enable Green and Sustainable Computing in the

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Sommario/riassunto

This book explores the concepts and role of green computing and its recent developments for making the environment sustainable. It focuses on green automation in disciplines such as computers, nanoscience, information technology, and biochemistry. This book is characterized through descriptions of sustainability, green computing, their relevance to the environment, society, and its applications. Presents how to make the environment sustainable through engineering aspects and green computing Explores concepts and the role of green computing with recent developments Processes green automation linked with various disciplines such as nanoscience, information technology, and biochemistry Explains the concepts of green computing linked with sustainable environment through information technology This book will be of interest to researchers, libraries, students, and academicians that are interested in the concepts of green computing linked with green automation through information technology and their impacts on the future.