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Nota di contenuto	Cover -- Title Page -- Copyright -- Contents -- A Note from the Series Editor -- About the Editors -- List of Contributors -- Preface -- Chapter 1 Technology Assessment: Smart City Development Initiatives and Issues -- 1.1 Introduction -- 1.2 Evolution of the Smart City -- 1.3 Need for Smart Cities -- 1.3.1 Global Smart Cities Initiatives -- 1.3.2 Role of Technology in Smart City Development -- 1.3.3 Technology Adoption and Development of Smart Cities -- 1.3.4 Efforts Toward Overcoming Technological Challenges -- 1.3.5 Future of Smart Cities with Technology Adoption -- 1.4 Conclusion -- 1.5 Implication and Future Research -- References -- Chapter 2 Technology Assessment: Process Optimization Services in the Cement Industry -- 2.1 Introduction -- 2.2 Research Design -- 2.2.1 Model Development -- 2.2.1.1 Hierarchical Model: Client's Point of View -- 2.2.1.2 Hierarchical Model: Staff's Point of View -- 2.2.1.3 Comparative Judgment of the Variables -- 2.2.2 Supporting Qualitative Data -- 2.2.3 Data Analysis -- 2.3 Results of the Survey -- 2.3.1 Simplified External Survey -- 2.3.2 Complete External Survey -- 2.3.3 Internal Survey -- 2.4 Discussion -- 2.5 Conclusions -- References -- Chapter 3 Technology Assessment: Energy Storage Technologies -- 3.1 Introduction -- 3.2 Literature Review -- 3.2.1 Renewable Energy Sources -- 3.2.2 Assessment of the Energy Storage Technologies -- 3.3 Methodology -- 3.3.1 Hierarchical Decision Model -- 3.3.2 HDM Steps -- 3.3.2.1 Creating Model -- 3.3.2.2 Pairwise Comparison -- 3.3.2.3 Inconsistency and Disagreement -- 3.3.3 Technology Development Envelop (TDE) -- 3.4 Model Development -- 3.4.1 Criteria/Perspectives -- 3.4.1.1 Social Perspective -- 3.4.1.2 Technical Perspective -- 3.4.1.3 Economic Perspective -- 3.4.1.4 Environmental Perspective -- 3.4.1.5 Political Perspective -- 3.4.2 Alternative Technologies. 3.4.2.1 Flywheels -- 3.4.2.2 Liquid Air Energy Storage Technologies -- 3.4.2.3 Thermoelectric Energy Storage -- 3.4.2.4 Underground Pumped Hydro -- 3.4.2.5 Isothermal Compressed Air Energy Storage (ICAES) -- 3.5 Results Analysis and Discussion -- 3.5.1 Model Validation -- 3.5.2 Model Quantification -- 3.5.2.1 Results of the Perspectives and Criteria -- 3.5.3 TDE Diagram -- 3.6 Conclusion -- Acknowledgments -- References -- Chapter 4 Technology Forecasting: A Secure Solar Power Generation Forecasting Framework for Recurrent Neural Networks -- 4.1 Introduction -- 4.2 Proposed Secure Solar Power Generation Forecasting Framework -- 4.3 Deep Learning Techniques -- 4.3.1 Recurrent Neural Networks (RNN) -- 4.3.2 Long Shortterm Memory (LSTM) -- 4.3.3 Bidirectional LSTM -- 4.3.4 Gated Recurrent Units (GRU) -- 4.3.5 LSTM and BiLSTM with Attention -- 4.4 Adversarial Attack and Mitigation Methods -- 4.4.1 Adversarial Attack -- 4.4.2 Adversarial Training -- 4.5 Dataset Description, Feature Selection, and Performance Metrics -- 4.5.1 Dataset Description -- 4.5.2 Feature Selection -- 4.5.3 Performance Metrics -- 4.6 Experiments -- 4.6.1 RNNbased Solar Power Generation Forecasting -- 4.6.2 Adversarial Machine Learning Attack Against RNNbased Models -- 4.6.3 RNN based Solar Power Generation Forecasting with Adversarial Machine Learning Training -- 4.7 Results and Discussion -- 4.8 Summary -- References -- Chapter 5 Technology Intelligence: Transformative Trends and Technological Synergies for the Smart Grid -- 5.1 Introduction -- 5.2 Cluster Analysis -- 5.3 Authors Productivity -- 5.4 Coword Analysis -- 5.5 Discussion -- References -- Chapter 6

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Sommario/riassunto

This book provides a comprehensive guide to technology assessment and management with a focus on various industry applications. Edited by Haydar Yalçın and Tugrul U. Daim, it includes contributions from experts in fields such as smart city development, process optimization in the cement industry, energy storage technologies, and technology forecasting using neural networks. The book aims to equip managers with the tools needed to assess and plan technology initiatives effectively. Intended for professionals and academics in technology management, it covers methodologies for technology intelligence and roadmapping, offering insights into emerging technologies and strategic planning frameworks.
