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Collana	International Series in Operations Research & Management Science, , 2214-7934 ; ; 333
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Soggetti	Sustainability Production management Operations research Business logistics Artificial intelligence Operations Management Operations Research and Decision Theory Supply Chain Management Production Intelligence Infrastructure
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Livello bibliografico	Monografia
Nota di contenuto	Sustainability. Cases and Studies in Using Operations Research and Management Science Methods -- What is Sustainability? A Layman Perspective -- Sustainable Supply Chain Management: Definition, Bibliometrics, Applications and Future Directions -- Applications of Machine Learning Algorithms in Data Sciences -- The machine learning model for identifying bogus profiles in social networking sites -- Support Vector Machine and K-fold cross validation to detect false alarms in wind turbines -- A Hybrid Neural Network Model Based on Convolutional Cascade Neural Networks: An Application for Image Inspection in Production -- A multi-objective sustainable traffic signal control for smart cities under uncertainty -- Multi Criteria Decision

Making for Sustainable Transport: A Case Study on Traffic Flow Prediction Using Spatial-Temporal Traffic Sequence -- A Robust Prognostic Indicator for Renewable Energy Fuel Cells: A Hybrid Data-Driven Prediction Approach -- An Assessment of Electricity Markets in Turkey: Price Mechanisms, Regulations, and Methods -- The role of DevOps in Sustainable Enterprise Development -- Practices and indicators of waste and resource management in commercial buildings -- A descriptive comprehension study on solar energy, solar products, and solar product marketing in Indian context -- Precision Livestock Farming (PLF) Systems – Improving Sustainability and Efficiency of Animal Production -- Environmental Assessment of Rural Road Construction in India -- Perspectives on the sustainable steel production process: a critical review of the carbon dioxide (CO₂) to methane (CH₄) conversion process -- Exergy, Anergy and Sustainability -- Simulating complex relationships between pollutants and the environment using regression splines: A case study for landfill leachate.

Sommario/riassunto

This book provides relevant theoretical frameworks and the latest empirical research findings in Operations Research (OR) and Management Science (MS) as applied to sustainability. Its goal is to identify and describe ways in which OR and MS have been applied to and influenced the development of sustainability. Many of the issues we face today stem from the interconnectivity of the economy, society, and the environment, and from how both the economy and society are affecting the environment. In response, there have been a range of local and global efforts to advance society without harming the natural environment. The book showcases how OR/MS can help to address these issues, specifically with regard to renewable energy, smart industry, smart cities, transportation, smart homes and devices, etc. This book is intended for professionals in the fields of energy, engineering, information science, mathematics and economics, and for researchers who wish to develop new skills in connection with sustainability, or whose work involves sustainability.
