1. Record Nr. UNINA9910918597303321

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Titolo	Dynamics of Disasters : From Natural Phenomena to Human Activity / / edited by Ilias S. Kotsireas, Anna Nagurney, Panos M. Pardalos, Stefan Wolfgang Pickl, Chrysafis Vogiatzis
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031740060
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (257 pages)
Collana	Springer Optimization and Its Applications, , 1931-6836 ; ; 217
Altri autori (Persone)	NagurneyAnna PardalosPanos M PicklStefan Wolfgang VogiatzisChrysafis
Disciplina	519.6
Soggetti	Mathematical optimization Operations research Management science Machine learning Business logistics Optimization Operations Research, Management Science Machine Learning Supply Chain Management Gestió d'emergències Models matemàtics Congressos Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface -- Networks under deep uncertainty -- Artificial Intelligence and Machine Learning in Precision Health: An Overview of Methods, Challenges, and Future Directions -- An Enhanced Multi-UAVs' Provider Framework for Delivering 5G Services using a Game Theoretic Approach -- Exploring Machine Learning Models for Federated Learning: A

Review of Approaches, Performance, and Limitations -- Prioritized Maximum Multi-Commodity Flow in Evacuation Planning -- Analysis of Digital Narratives of Greece’s Worst Train Accident -- Quantification of International Trade Network Performance Under Disruptions to Supply, Transportation, and Demand Capacity, and Exchange Rates in Disasters -- A geo-database of natural hazard events to identify relationships between hazards -- A random variational inequality model of an international agricultural supply chain with a vulnerability analysis under disaster scenarios -- Assessing the Impact of Multi-Hazard Events in Spain: A Clustering Index Framework.

Sommario/riassunto

Based on the “Sixth International Conference on Dynamics of Disasters” (Piraeus, Greece, July 2023), this volume includes contributions from experts who share their latest discoveries on disasters either caused by natural phenomena or human activities. Authors provide overviews of the tactical points involved in disaster relief, outlines of hurdles from mitigation and preparedness to response and recovery and uses for mathematical models to describe disasters and their impacts. This volume includes additional invited manuscripts from other experts and leaders in the field. Topics covered include economics, optimization, machine learning, government, management, business, humanities, engineering, medicine, mathematics, computer science, behavioral studies, emergency services, and environmental studies and will engage readers from a wide variety of fields and backgrounds.