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Titolo	Dynamics of Disasters—Key Concepts, Models, Algorithms, and Insights : Kalamata, Greece, June–July 2015 // edited by Ilias S. Kotsireas, Anna Nagurney, Panos M. Pardalos
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Collana	Springer Proceedings in Mathematics & Statistics, , 2194-1009 ; ; 185
Disciplina	003.3
Soggetti	Mathematical models Operations research Decision making Emergency medicine Game theory Dynamics Ergodic theory Management science Mathematical Modeling and Industrial Mathematics Operations Research/Decision Theory Emergency Services Game Theory, Economics, Social and Behav. Sciences Dynamical Systems and Ergodic Theory Operations Research, Management Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	An assessment of the impact of natural and technological disasters using a DEA approach -- Selective Routing for Post-Disaster Needs Assessments -- Bridging the Gap: Preparing for Long-Term Infrastructure Disruptions -- Multi-Hazard Scenarios and Impact Mapping for a Protected Built Area in Bucharest, as a base for Emergency Planning -- Lean thinking and UN field operations: A successful co-existence? -- Collaborative incident planning and the

common operational picture -- Metaheuristic Optimization for Logistics in Natural Disasters -- Tsunami of the meteoric origin -- The Donation Collections Routing Problem -- Network criticality and network complexity indicators for the assessment of critical infrastructures during disasters -- Freight Service Provision for Disaster Relief: A Competitive Network Model with Computations -- A Mean-Variance Disaster Relief Supply Chain Network Model for Risk Reduction with Stochastic Link Costs, Time Targets, and Demand Uncertainty -- A Review of Current Earthquake and Fire Preparedness Campaigns: What works? -- The Impact of the Syria Crisis on Lebanon -- Absenteeism Impact on Local Economy During a Pandemic via Hybrid SIR Dynamics -- Tornado Detection with Kernel-Based Classifiers from WSR-88D Radar Data -- Evacuation modeling and betweenness centrality -- Ode to the Humanitarian Logician: Humanistic Logistics through a Nurse's Eye.

Sommario/riassunto

This volume results from the "Second International Conference on Dynamics of Disasters" held in Kalamata, Greece, June 29-July 2, 2015. The conference covered particular topics involved in natural and man-made disasters such as war, chemical spills, and wildfires. Papers in this volume examine the finer points of disasters through: · Critical infrastructure protection · Resiliency · Humanitarian logistic · Relief supply chains · Cooperative game theory · Dynamical systems · Decision making under risk and uncertainty · Spread of diseases · Contagion · Funding for disaster relief · Tools for emergency preparedness · Response, and risk mitigation Multi-disciplinary theories, tools, techniques and methodologies are linked with disasters from mitigation and preparedness to response and recovery. The interdisciplinary approach to problems in economics, optimization, government, management, business, humanities, engineering, medicine, mathematics, computer science, behavioral studies, emergency services, and environmental studies will engage readers from a wide variety of fields and backgrounds.
