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Autore	Lernet-Holenia, Alexander
Titolo	Die weisse Dame. Roman / Alexander Lernet Holenia
Pubbl/distr/stampa	Wien ; Hamburg, : Paul Zsolnay, 1965
Descrizione fisica	173 p. ; 19 cm
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910438081803321
Autore	Bretschneider Sarah
Titolo	Mathematical models for evacuation planning in urban areas // Sarah Bretschneider
Pubbl/distr/stampa	Berlin ; ; New York, : Springer Science+Business Media, 2012
ISBN	1-283-62696-9 9786613939418 3-642-28759-X
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Descrizione fisica	1 online resource (208 p.)
Collana	Lecture notes in economics and mathematical systems, , 0075-8442 ; ; 659
Disciplina	363.345250151/18
Soggetti	Evacuation of civilians - Mathematical models City planning - Mathematical models Mathematical optimization Spatial analysis (Statistics) Graph algorithms
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Literature Review -- An Urban Evacuation Problem -- A Relaxation-Based Heuristic Approach for the Mixed-Integer Evacuation

Model -- A Pattern-Based Evacuation Planning Model for Urban Areas -- A Two-Staged Heuristic Approach -- A Multicommodity Urban Evacuation Problem -- A Four-Staged Heuristic Approach to Solve the Urban Multicommodity Model -- Conclusions and Future Research -- Information About the Computational Study of the Relaxation-Based Approach.

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Sommario/riassunto

Disasters like floods, hurricanes, chemical or nuclear accidents may cause the necessity to evacuate the affected area. The evacuation of the urban area needs to be planned carefully. One issue is the reorganization of the traffic routing. Congested urban areas have usually complex street networks that are composed of many intersections with streets connecting them. The population density of a congested urban area is usually high and the street network is already used to capacity during rush hour traffic. The considered problem of this work is the reorganization of the traffic routing of an urban area for the case of an emergency mass evacuation. Especially aspects of the evacuation like safety, avoidance of delays and the total system travel time are taken into account. Combinatorial and graph theoretical aspects are adapted for the evacuation problem and highlight issues concerning especially conflicts within intersections. This work gives an extensive summary of literature of evacuation of urban areas. Mixed-integer linear programming models are developed for evacuation problems and heuristic algorithms are provided and tested.

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