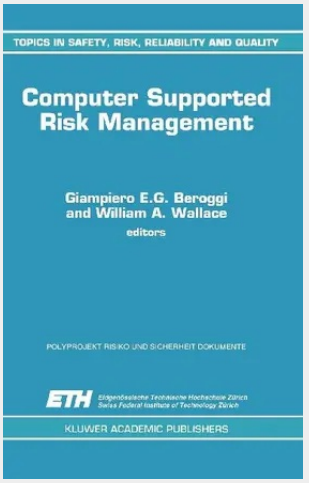
Beroggi / Wallace

Computer Supported Risk Management



Advances in information technology provide opportunities for the development of computer systems that support risk managers in complex tasks. Leading experts report on the potentials and limitations concerning the use of computer systems in risk management. Their reports are based on many years of experience in their fields which include: risk analysis, systems engineering, geographic information systems, decision support systems, human--machine systems, and psychology.
The book addresses four major issues in computer supported risk management:

- **Conceptual aspects:** the role, design, and use of computers in risk management
- **Planning and policy analysis:** transportation, equity analysis, emergency management, group decision making
- **Operational decision making:** nuclear power monitoring, emergency response, public safety warning, satellite tracking
- **Commercial applications:** GIS from IIASA, InterClair from IAEA, EPA software, cleanup decision support software survey. This book is meant for researchers, who will find the emerging issues in risk management that are motivated by the encounter of new tasks and novel technology; practitioners who will have descriptions and references of the state-of-the-art models and software; and students who will learn the basic concepts needed to develop advanced information and decision support systems in risk management.

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213,99 €
199,99 € (zzgl. MwSt.)

Nicht mehr lieferbar

Artikelnummer: 9780792333722
Medium: Buch
ISBN: 978-0-7923-3372-2
Verlag: Springer
Erscheinungstermin: 28.02.1995
Sprache(n): Englisch
Auflage: 1995. Auflage 1995
Serie: Topics in Safety, Risk, Reliability and Quality
Produktform: Gebunden
Gewicht: 1590 g
Seiten: 373
Format (B x H): 160 x 241 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)