Terrorism Informatics: Knowledge Management and Data Mining for Homeland Security (Integrated Series in Information Systems)

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This book is nothing less than a complete and comprehensive survey of the state-of-the-art of terrorism informatics. It covers the application of advanced methodologies and information fusion and analysis. It also lays out techniques to acquire, integrate, process, analyze, and manage the diversity of terrorism-related information for international and homeland security-related applications. The book details three major areas of terrorism research: prevention, detection, and established governmental responses to terrorism. It systematically examines the current and ongoing research, including recent case studies and application of terrorism informatics techniques. The coverage then presents the critical and relevant social/technical areas to terrorism research including social, privacy, data confidentiality, and legal challenges.

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Editorial Review

Review

From the reviews:

"The title of this book might imply, at first sight, a US-centric approach to the topic, but in fact, the contributions are not only from the US, but also from Canada … India, and Israel. … A particularly good feature of this book is the back matter included at the end of each chapter: suggested readings, online resources, and discussion questions … . This edited volume should appeal to the growing terrorism informatics research community, graduate students, and readers in the wider community … ." (John Fulcher, ACM Computing Reviews, May, 2009)

From the Back Cover

Terrorism informatics has been defined as the application of advanced methodologies, information fusion and analysis techniques to acquire, integrate process, analyze, and manage the diversity of terrorism-related information for international and homeland security-related applications. The wide variety of methods used in terrorism informatics are derived from Computer Science, Informatics, Statistics, Mathematics, Linguistics, Social Sciences, and Public Policy and these methods are involved in the collection of huge amounts of information from varied and multiple sources and of many types in numerous languages. Information fusion and information technology analysis techniques?which include data mining, data integration, language translation technologies, and image and video processing?play central roles in the prevention, detection, and remediation of terrorism.

Terrorism Informatics: Knowledge Management and Data Mining for Homeland Security will provide an interdisciplinary and comprehensive survey of the state-of-the-art in the terrorism informatics domain along three basic dimensions: *methodological issues* in terrorism research; *information infusion techniques* to support terrorism prevention, detection, and response; and *legal, social, privacy, and data confidentiality challenges and approaches*. Featuring contributions by leading researchers and practitioners, illustrative case studies, and applications of terrorism informatics techniques, the book will be an essential resource for scientists, security professionals, counterterrorism experts, and policy makers.

About the Author
The lead author is an editor for the IEEE Int. conference on Intelligence and Security Informatics and the founder of ISI conferences.

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