



# Application of Big Data for National Security: A Practitioner's Guide to Emerging Technologies

*Babak Akhgar, Gregory B. Saathoff, Hamid R. Arabnia, Richard Hill, Andrew Staniforth, Petra Saskia Bayerl*

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*Application of Big Data for National Security* provides users with state-of-the-art concepts, methods, and technologies for Big Data analytics in the fight against terrorism and crime, including a wide range of case studies and application scenarios. This book combines expertise from an international team of experts in law enforcement, national security, and law, as well as computer sciences, criminology, linguistics, and psychology, creating a unique cross-disciplinary collection of knowledge and insights into this increasingly global issue.

The strategic frameworks and critical factors presented in *Application of Big Data for National Security* consider technical, legal, ethical, and societal impacts, but also practical considerations of Big Data system design and deployment, illustrating how data and security concerns intersect. In identifying current and future technical and operational challenges it supports law enforcement and government agencies in their operational, tactical and strategic decisions when employing Big Data for national security

- Contextualizes the Big Data concept and how it relates to national security and crime detection and prevention
- Presents strategic approaches for the design, adoption, and deployment of Big Data technologies in preventing terrorism and reducing crime
- Includes a series of case studies and scenarios to demonstrate the application of Big Data in a national security context
- Indicates future directions for Big Data as an enabler of advanced crime prevention and detection

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