



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

By 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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Editorial Review

Review

"Law enforcement and intelligence practitioners will especially be interested in the case studies on how big data and high performance analytics have been used to uncover terrorist plots..." --**Journal of Counterterrorism and Homeland Security International**

About the Author

Babak Akhgar is Professor of Informatics and Director of CENTRIC (Center of Excellence in Terrorism, Resilience, Intelligence and Organized Crime Research) at Sheffield Hallam University (UK) and Fellow of the British Computer Society. He has more than 100 refereed publications in international journals and conferences on information systems with specific focus on knowledge management (KM). He is member of editorial boards of several international journals and has acted as Chair and Program Committee Member for numerous international conferences. He has extensive and hands-on experience in the development, management and execution of KM projects and large international security initiatives (e.g., the application of social media in crisis management, intelligence-based combating of terrorism and organized crime, gun crime, cyber-crime and cyber terrorism and cross cultural ideology polarization). In addition to this he is the technical lead of two EU Security projects: "Courage" on Cyber-Crime and Cyber-Terrorism and "Athena" on the Application of Social Media and Mobile Devices in Crisis Management. He has co-edited several books on Intelligence Management.. His recent books are titled "Strategic Intelligence Management (National Security Imperatives and Information and Communications Technologies)", "Knowledge Driven Frameworks for Combating Terrorism and Organised Crime" and "Emerging Trends in ICT Security". Prof Akhgar is member of the academic advisory board of SAS UK.

Hamid R. Arabnia is currently a Full Professor of Computer Science at University of Georgia where he has been since October 1987. His research interests include Parallel and distributed processing techniques and algorithms, interconnection networks, and applications in Computational Science and Computational Intelligence (in particular, in image processing, medical imaging, bioinformatics, and other computational intensive problems). Dr. Arabnia is Editor-in-Chief of The Journal of is Associate Editor of IEEE Transactions on Information Technology in Biomedicine . He has over 300 publications (journals, proceedings, editorship) in his area of research in addition he has edited two titles Emerging Trends in ICT Security (Elsevier 2013), and Advances in Computational Biology (Springer 2012).

Andrew Staniforth, Detective Inspector and Advisory Board Member and Senior Research Fellow, Centre of Excellence in Terrorism, Resilience, Intelligence and Organised Crime Research (CENTRIC).

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