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Titolo	Data Analytics and Decision Support for Cybersecurity : Trends, Methodologies and Applications // edited by Iván Palomares Carrascosa, Harsha Kumara Kalutarage, Yan Huang
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-59439-7
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (270 pages) : illustrations (some color), tables
Collana	Data Analytics, , 2520-1859
Disciplina	005.8
Soggetti	Data mining Data encryption (Computer science) Big data Data Mining and Knowledge Discovery Cryptology Big Data/Analytics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	A Toolset for Intrusion and Insider Threat Detection -- Human-Machine Decision Support Systems for Insider Threat Detection -- Detecting malicious collusions between mobile software applications -- Dynamic Analysis of Malware using Run-Time Opcodes -- Big Data Analytics for Intrusion Detection System: Statistical Decision-making using Finite Dirichlet Mixture Models -- Security of Online Examinations -- Attribute Noise, Classification Technique, and Classification Accuracy -- Learning from Loads: An Intelligent System for Decision Support in Identifying Nodal Load Disturbances of Cyber-Attacks in Smart Power Systems using Gaussian Processes and Fuzzy Inference -- Visualization and Data Provenance Trends in Decision Support for Cybersecurity.
Sommario/riassunto	The book illustrates the inter-relationship between several data management, analytics and decision support techniques and methods commonly adopted in Cybersecurity-oriented frameworks. The recent advent of Big Data paradigms and the use of data science methods, has resulted in a higher demand for effective data-driven models that

support decision-making at a strategic level. This motivates the need for defining novel data analytics and decision support approaches in a myriad of real-life scenarios and problems, with Cybersecurity-related domains being no exception. This contributed volume comprises nine chapters, written by leading international researchers, covering a compilation of recent advances in Cybersecurity-related applications of data analytics and decision support approaches. In addition to theoretical studies and overviews of existing relevant literature, this book comprises a selection of application-oriented research contributions. The investigations undertaken across these chapters focus on diverse and critical Cybersecurity problems, such as Intrusion Detection, Insider Threats, Insider Threats, Collusion Detection, Run-Time Malware Detection, Intrusion Detection, E-Learning, Online Examinations, Cybersecurity noisy data removal, Secure Smart Power Systems, Security Visualization and Monitoring. Researchers and professionals alike will find the chapters an essential read for further research on the topic.
