



Information Fusion for Cyber-Security Analytics (Studies in Computational Intelligence)

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Information Fusion for Cyber-Security Analytics (Studies in Computational Intelligence) From Springer

This book highlights several gaps that have not been addressed in existing cyber security research. It first discusses the recent attack prediction techniques that utilize one or more aspects of information to create attack prediction models. The second part is dedicated to new trends on information fusion and their applicability to cyber security; in particular, graph data analytics for cyber security, unwanted traffic detection and control based on trust management software defined networks, security in wireless sensor networks & their applications, and emerging trends in security system design using the concept of social behavioral biometric. The book guides the design of new commercialized tools that can be introduced to improve the accuracy of existing attack prediction models. Furthermore, the book advances the use of Knowledge-based Intrusion Detection Systems (IDS) to complement existing IDS technologies. It is aimed towards cyber security researchers.

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Editorial Review

From the Back Cover

This book highlights several gaps that have not been addressed in existing cyber security research. It first discusses the recent attack prediction techniques that utilize one or more aspects of information to create attack prediction models. The second part is dedicated to new trends on information fusion and their applicability to cyber security; in particular, graph data analytics for cyber security, unwanted traffic detection and control based on trust management software defined networks, security in wireless sensor networks & their applications, and emerging trends in security system design using the concept of social behavioral biometric. The book guides the design of new commercialized tools that can be introduced to improve the accuracy of existing attack prediction models. Furthermore, the book advances the use of Knowledge-based Intrusion Detection Systems (IDS) to complement existing IDS technologies. It is aimed towards cyber security researchers.

About the Author

Dr. Izzat Alsmadi is an Assistant Professor in the department of Computer Science at the University of New Haven. He has his master and PhD in Software Engineering from North Dakota State University. He has more than 100 conference and journal publications. His research interests include: Software security, software engineering, software testing, social networks and software defined networking.

Dr. George Karabatis is an Associate Professor of Information Systems and Associate Chair for Academic Affairs in the Department of Information Systems. He teaches undergraduate and graduate courses in semantic data integration, data management, data communications and networking, database applications, and mobile applications. He is one of the founding members of DINAMIC, a research group of IS faculty and students who pursue research in intelligent information discovery in various application domains. His research work has been published in peer-reviewed journals, conference proceedings and book chapters. He has been funded by NSF, USGS, MD Board of Elections, Northrop-Grumman and IGSR. He holds a Ph.D. in Computer Science from the University of Houston.

Dr. Ahmed AlErroud is an Assistant Professor of Computer Information Systems, at Yarmouk University in Jordan. He has recently joined UMBC as a Visiting Associate Research Scientist in the Department of Information Systems. Dr. AlErroud has received his PhD in Information Systems from the University of Maryland, Baltimore County (UMBC). His research appears in several cyber security and information systems conferences, such as the IEEE/ASE International conference in Cyber-Security, the IEEE conference on software Security and Reliability, and the International Conference on Semantic Computing. He has served as a committee member and a reviewer in some conferences in several areas such as the first International Conference on Anti-Cybercrime (ICACC-2015) and the entropy Journal. **p>**

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