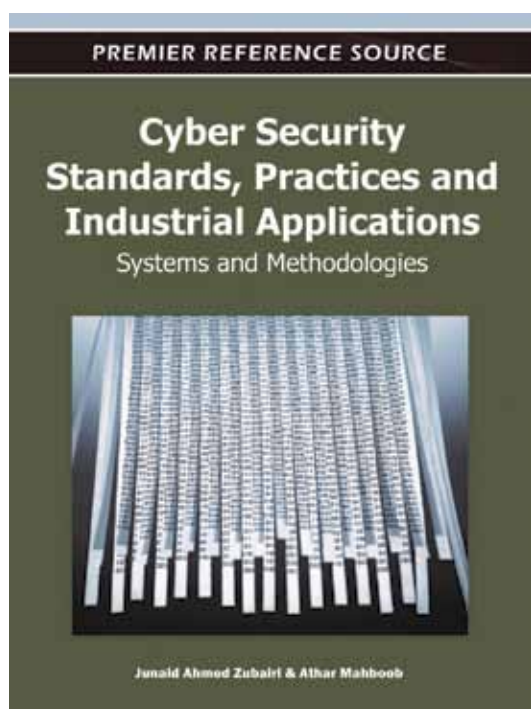


An Excellent Addition to Your Library!

Released: August 2011

Cyber Security Standards, Practices and Industrial Applications: Systems and Methodologies



Junaid Ahmed Zubairi (SUNY at Fredonia, USA) and
Athar Mahboob (National University of Sciences & Technology, Pakistan)

Cyber security, encompassing both information and network security, is of utmost importance in today's information age.

Cyber Security Standards, Practices and Industrial Applications: Systems and Methodologies details the latest and most important advances in security standards. First, it introduces the differences between information security (covers the understanding of security requirements, classification of threats, attacks and information protection systems and methodologies) and network security (includes both security protocols as well as systems which create a security perimeter around networks for intrusion detection and avoidance). In addition, the book serves as an essential reference to students, researchers, practitioners and consultants in the area of social media, cyber security and information and communication technologies (ICT).

Topics Covered:

- Botnet Phenomena
- C4ISR
- Cyber Attacks
- Network-Based Anomaly Detection Systems
- Photons
- Quantum Cryptography
- Remote Terminal Units (RTUs)
- Supervisory Control and Data Acquisition (SCADA) System
- Viruses, Worms, and Trojan Horses
- Web Application Firewalls

ISBN: 9781609608514; © 2012; 336 pp.

Print: US \$195.00 | Perpetual: US \$295.00 | Print + Perpetual: US \$390.00

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

Junaid Ahmed Zubairi is currently an Associate Professor at Department of Computer and Information Sciences in the State University of New York at Fredonia, USA. Dr. Zubairi received his BE (Electrical Engineering) from NED University of Engineering, Pakistan and MS and Ph.D. (Computer Engineering) from Syracuse University, USA. He worked in Sir Syed University Pakistan and Intl^l Islamic University Malaysia before joining State University of New York at Fredonia. Dr. Zubairi is a recipient of many awards including Malaysian Government IRPA award, National Science Foundation MACS grant, SUNY Scholarly Incentive award, and SUNY individual development award. He has authored several chapters and scholarly articles in books, international journals, and conference proceedings. His research interests include information security, network traffic engineering, performance evaluation of networks, and network applications in medicine.

Section 1: Mobile and Wireless Security

Chapter 1

Securing Wireless Ad Hoc Networks:

Pomponiu Victor (University of Torino, Italy)

Chapter 2

Smartphone Data Protection Using Mobile Usage Pattern Matching

Hu Wen-Chen (University of North Dakota, USA)

Kaabouch Naima (University of North Dakota, USA)

Mousavinezhad S. Hossein (Idaho State University, USA)

Yang Hung-Jen (National Kaohsiung Normal University, Taiwan)

Chapter 3

Conservation of Mobile Data and Usability Constraints

Mokhtar Rania (University Putra Malaysia (UPM), Malaysia)

Saeed Rashid (International Islamic University Malaysia (IIUM), Malaysia)

Section 2: Social Media, Botnets and Intrusion Detection

Chapter 4

Cyber Security and Privacy in the Age of Social Networks

Bhatti Babar (MutualMind, Inc., USA)

Chapter 5

Botnets and Cyber Security:

Manasrah Ahmed Mansour (National Advanced IPv6 Center, Malaysia)

Abouabdalla Omar Amer (National Advanced IPv6 Center, Malaysia)

Mayeh Moein (National Advanced IPv6 Center, Malaysia)

Suppiah Nur Nadiyah (National Advanced IPv6 Center, Malaysia)

Chapter 6

Evaluation of Contemporary Anomaly Detection Systems (ADSs)

Ashfaq Ayesha Binte (National University of Sciences & Technology (NUST), Pakistan)

Khayam Syed Ali (National University of Sciences & Technology (NUST), Pakistan)

Section 3: Formal Methods and Quantum Computing

Chapter 7

Practical Quantum Key Distribution

Ali Sellami (International Islamic University Malaysia (IIUM), Malaysia)

Chapter 8

Automated Formal Methods for Security Protocol Engineering

Pironti Alfredo (Politecnico di Torino, Italy)

Pozza Davide (Politecnico di Torino, Italy)

Sisto Riccardo (Politecnico di Torino, Italy)

Section 4: Embedded Systems and SCADA Security

Chapter 9

Fault Tolerant Remote Terminal Units (RTUs) in SCADA Systems

Misbahuddin Syed (Sir Syed University of Engineering and Technology, Pakistan)

Al-Holou Nizar (University of Detroit Mercy, USA)

Chapter 10

Embedded Systems Security

Farooq-i-Azam Muhammad (COMSATS Institute of Information Technology, Pakistan)

Ayyaz Muhammad Naem (University of Engineering and Technology, Pakistan)

Section 5: Industrial and Applications Security

Chapter 11

Cyber Security in Liquid Petroleum Pipelines

Henric Morgan (MH Consulting, Inc., USA)

Chapter 12

Application of Cyber Security in Emerging CAISR Systems

Malik Ashfaq Ahmad (National University of Sciences & Technology, Pakistan)

Mahboob Athar (National University of Sciences & Technology, Pakistan)

Khan Adil (National University of Sciences & Technology, Pakistan)

Zubairi Junaid (State University of New York at Fredonia, USA)

Chapter 13

Practical Web Application Security Audit Following Industry Standards and Compliance

Ali Shakeel (Cipher Storm Ltd, United Kingdom)

Order Your Copy Today!

Name: _____

Organization: _____

Address: _____

City, State, Zip: _____

Country: _____

Tel: _____

Fax: _____

E-mail: _____

Enclosed is check payable to IGI Global in
US Dollars, drawn on a US-based bank

Credit Card Mastercard Visa Am. Express

3 or 4 Digit Security Code: _____

Name on Card: _____

Account #: _____

Expiration Date: _____