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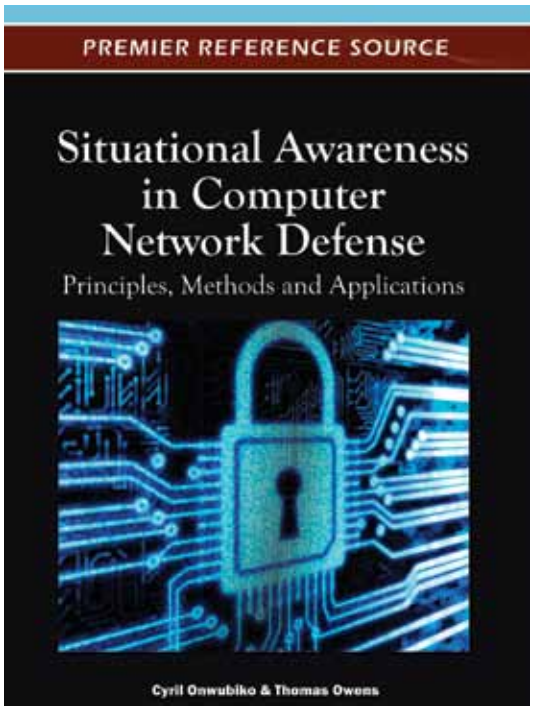
# Situational Awareness in Computer Network Defense: Principles, Methods and Applications

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Cyril Onwubiko (Research Series Ltd, UK)
and Thomas Owens (Brunel University, UK)

Worldwide computer crimes cost organizations and governments billions of dollars each year. In response, organizations use a plethora of heterogeneous security devices and software such as firewalls, Intrusion Detection Systems (IDS), and Security Information and Event Management (SIEM) to monitor networks in conjunction with Computer Security Incident Response Teams (CSIRT) that are responsible for ensuring availability, integrity, and confidentiality of network services.

**Situational Awareness in Computer Network Defense: Principles, Methods and Applications** provides academia and organizations insights into practical and applied solutions, frameworks, technologies, and implementations for situational awareness in computer networks. This book presents situational awareness solutions in Computer Network Defense (CND) currently being researched or deployed. The key objective is to fill a gap that exists in the way CND and security are being approached by formalizing the use of situational awareness in computer network security and defense.

## Topics Covered:

- Computer Network Security
- Cyber Attacks
- Cyber Command and Control
- False Data in Wireless Sensor Networks
- Forensic Investigative Procedures
- Global Collaborative Defense
- Information Security for Situational Awareness
- Modeling Situational Awareness
- Optimization of Enterprise Network Defense Systems
- Security Incident Analysis

**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.

**Cyril Onwubiko** is a leading information security expert and founder of Research Series in London, UK where he leads on intelligence and security assurance, Cyber security, and situational awareness in computer network defense. Prior to Research Series, he was an information security consultant at British Telecommunications, CLAS consultant at Cable & Wireless Worldwide, and a security analyst at COLT Telecommunications. He holds a PhD degree in Computer Network Security from Kingston University, London, UK. Dr. Onwubiko has authored several books, including "Security Frameworks for Attack Detection in Computer Networks," and has published over 30 academic articles in reputable journals, conference proceedings, and edited books. He is a member of the IEEE, Institute of Information Security Professionals (IISP), and CESG Listed Advisor Scheme (CLAS).

## Section 1: Principles of SA CND



## Section 2: Methods in SA CND



## Section 3: SA CND Applications

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