Critical Infrastructure Security

ASSESSMENT, PREVENTION, DETECTION, RESPONSE

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Critical Infrastructure Security Assessment Prevention Detection Response

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Critical Infrastructure Security Assessment Prevention Detection Response:

Critical Infrastructure Security Francesco Flammini,2012 This book provides a comprehensive survey of state of the art techniques for the security of critical infrastructures addressing both logical and physical aspects from an engineering point of view Recently developed methodologies and tools for CI analysis as well as strategies and technologies for CI protection are investigated in the following strongly interrelated and multidisciplinary main fields Vulnerability analysis and risk assessment Threat prevention detection and response Emergency planning and management Each of the aforementioned topics is addressed considering both theoretical aspects and practical applications Emphasis is given to model based holistic evaluation approaches as well as to emerging protection technologies including smart surveillance through networks of intelligent sensing devices Critical Infrastructure Security can be used as a self contained reference handbook for both practitioners and researchers or even as a textbook for master doctoral degree students in engineering or related disciplines More specifically the topic coverage of the book includes Historical background on threats to critical infrastructures Model based risk evaluation and management approaches Security surveys and game theoretic vulnerability assessment Federated simulation for interdependency analysis Security operator training and emergency preparedness Intelligent multimedia audio video surveillance Terahertz body scanners for weapon and explosive detection Security system design intrusion detection access control Dependability and resilience of computer networks SCADA cyber security Wireless smart sensor networks and structural health monitoring Information systems for crisis response and emergency management Early warning situation awareness and decision support software Critical Infrastructure Security and Resilience Dimitris Gritzalis,Marianthi Theocharidou,George Stergiopoulos,2019-01-01 This book presents the latest trends in attacks and protection methods of Critical Infrastructures It describes original research models and applied solutions for protecting major emerging threats in Critical Infrastructures and their underlying networks It presents a number of emerging endeavors from newly adopted technical expertise in industrial security to efficient modeling and implementation of attacks and relevant security measures in industrial control systems including advancements in hardware and services security interdependency networks risk analysis and control systems security along with their underlying protocols Novel attacks against Critical Infrastructures CI demand novel security solutions Simply adding more of what is done already e g more thorough risk assessments more expensive Intrusion Prevention Detection Systems more efficient firewalls etc is simply not enough against threats and attacks that seem to have evolved beyond modern analyses and protection methods The knowledge presented here will help Critical Infrastructure authorities security officers Industrial Control Systems ICS personnel and relevant researchers to i get acquainted with advancements in the field ii integrate security research into their industrial or research work iii evolve current practices in modeling and analyzing Critical Infrastructures and iv moderate potential crises and emergencies influencing or emerging from Critical Infrastructures **Resilience Assessment and Evaluation of Computing Systems**

Katinka Wolter,Alberto Avritzer,Marco Vieira,Aad van Moorsel,2012-11-02 The resilience of computing systems includes their dependability as well as their fault tolerance and security It defines the ability of a computing system to perform properly in the presence of various kinds of disturbances and to recover from any service degradation These properties are immensely important in a world where many aspects of our daily life depend on the correct reliable and secure operation of often large scale distributed computing systems Wolter and her co editors grouped the 20 chapters from leading researchers into seven parts an introduction and motivating examples modeling techniques model driven prediction measurement and metrics testing techniques case studies and conclusions The core is formed by 12 technical papers which are framed by motivating real world examples and case studies thus illustrating the necessity and the application of the presented methods While the technical chapters are independent of each other and can be read in any order the reader will benefit more from the case studies if he or she reads them together with the related techniques The papers combine topics like modeling benchmarking testing performance evaluation and dependability and aim at academic and industrial researchers in these areas as well as graduate students and lecturers in related fields In this volume they will find a comprehensive overview of the state of the art in a field of continuously growing practical importance Encyclopedia of Crisis Management K. Bradley Penuel,Matt Statler,Ryan Hagen,2013-02-14 Although now a growing and respectable research field crisis management as a formal area of study is relatively young having emerged since the 1980s following a succession of such calamities as the Bhopal gas leak Chernobyl nuclear accident Space Shuttle Challenger loss and Exxon Valdez oil spill Analysis of organizational failures that caused such events helped drive the emerging field of crisis management Simultaneously the world has experienced a number of devastating natural disasters Hurricane Katrina the Japanese earthquake and tsunami etc From such crises both human induced and natural we have learned our modern tightly interconnected and interdependent society is simply more vulnerable to disruption than in the past This interconnectedness is made possible in part by crisis management and increases our reliance upon it As such crisis management is as beneficial and crucial today as information technology has become over the last few decades Crisis is varied and unavoidable While the examples highlighted above were extreme we see crisis every day within organizations governments businesses and the economy A true crisis differs from a routine emergency such as a water pipe bursting in the kitchen Per one definition it is associated with urgent high stakes challenges in which the outcomes can vary widely and are very negative at one end of the spectrum and will depend on the actions taken by those involved Successfully engaging dealing with and working through a crisis requires an understanding of options and tools for individual and joint decision making Our Encyclopedia of Crisis Management comprehensively overviews concepts and techniques for effectively assessing analyzing managing and resolving crises whether they be organizational business community or political From general theories and concepts exploring the meaning and causes of crisis to practical strategies and techniques relevant to crises of specific types crisis management is thoroughly explored Features the electronic version

of this allows students to explore customized response plans for crises of various sorts Appendices also include a Resource Guide to classic books journals and internet resources in the field a Glossary and a vetted list of crisis management related degree programs crisis management conferences etc Flood Early Warning Systems Daniela Molinari,Scira Menoni,Francesco Ballio,2013 Presenting the results of an ambitious research activity this book intends to understand why Early Warning Systems EWSs fail However from the beginning the objective turned out to be challenging first because so far there is not a shared understanding of what an EWS is among both researchers and practitioners communities second as a consequence because it is equally unclear when an EWS can be considered successful or not Due to this the research needed first to face some open questions instead of going straight to the point under investigation Specifically it was first necessary to define EWS identify its components and functions peculiarities and weak points Only at that point a first attempt to evaluate EWS performance was possible Flood Early Warning Systems Performance is organised according to the conceptual steps required by the research In part I the open questions about the definition and the role of EWSs are handled the aim being the identification of how to evaluate their effectiveness performance Part II focuses on the real aim of the research providing concepts and tools to assess EWS performance suggested tools are also implemented in a case study to describe how they can be applied in practice Focusing specifically on the topic of flood risk in mountainous regions the book can be viewed as a sort of manual for EWS designers managers and users It is organised into different independent sections which will appeal both to experts as well as those with an interest in the subject Most of results can also be exported to other hazards Complex Systems Design & Management Asia Michel-Alexandre Cardin,Saik Hay Fong,Daniel Krob,Lui Pao Chuen,Yang How Tan,2016-01-25 This book contains all refereed papers that were accepted to the second edition of the Asia Pacific conference on Complex Systems Design Management Asia CSD M Asia 2016 that took place in Singapore from February 24 to February 26 2016 Website http www 2016 csdm asia net These proceedings cover the most recent trends in the emerging field of Complex Systems both from an academic and a professional perspective A special focus is put on Smart Nations Designing and Sustaining The CSD M Asia 2016 conference is organized under the guidance of the Singapore division of the Center of Excellence on Systems Architecture Management Economy and Strategy CESAMES Legal address C E S A M E S Singapore 16 Raffles Quay 38 03 Hong Leong Building Singapore 048581 website http www cesames net en email contact cesames net *Effective Surveillance for Homeland Security* Francesco Flammini,Roberto Setola,Giorgio Franceschetti,2013-06-13 Effective Surveillance for Homeland Security Balancing Technology and Social Issues provides a comprehensive survey of state of the art methods and tools for the surveillance and protection of citizens and critical infrastructures against natural and deliberate threats Focusing on current technological challenges involving multi disciplinary problem analysis and systems engineering approaches it provides an overview of the most relevant aspects of surveillance systems in the framework of homeland security Addressing both advanced surveillance technologies and the

related socio ethical issues the book consists of 21 chapters written by international experts from the various sectors of homeland security Part I Surveillance and Society focuses on the societal dimension of surveillance stressing the importance of societal acceptability as a precondition to any surveillance system Part II Physical and Cyber Surveillance presents advanced technologies for surveillance It considers developing technologies that are part of a framework whose aim is to move from a simple collection and storage of information toward proactive systems that are able to fuse several information sources to detect relevant events in their early incipient phase Part III Technologies for Homeland Security considers relevant applications of surveillance systems in the framework of homeland security It presents real world case studies of how innovative technologies can be used to effectively improve the security of sensitive areas without violating the rights of the people involved Examining cutting edge research topics the book provides you with a comprehensive understanding of the technological legislative organizational and management issues related to surveillance With a specific focus on privacy it presents innovative solutions to many of the issues that remain in the quest to balance security with the preservation of privacy that society demands Advanced Concepts for Intelligent Vision Systems Jaques Blanc-Talon,Wilfried Philips,Dan Popescu,Paul Scheunders,Pavel Zemcik,2012-09-02 This book constitutes the thoroughly refereed proceedings of the 14th International Conference on Advanced Concepts for Intelligent Vision Systems ACIVS 2012 held in Brno Czech Republic in September 2012 The 46 revised full papers were carefully selected from 81 submissions and deal with image analysis and computer vision with a focus on detection recognition tracking and identification *Coevolutionary Computation and Multiagent Systems* Li-cheng Jiao,Jing Liu,Weicai Zhong,2012 The origins of evolutionary computation can be traced back to the late 1950 s where it remained almost unknown to the broader scientific community for three decades until the 1980 s when it started to receive significant attention as did the study of multi agent systems MAS This focuses on systems in which many intelligent agents interact with each other Today these systems are not simply a research topic but are also beginning to become an important subject of academic teaching and industrial and commercial application Co Evolutionary Computational and Multi Agent Systems introduces the author s recent work in these two new and important branches of artificial intelligence Computer Performance Engineering Philipp Reinecke,Antinisca Di Marco,2017-08-31 This book constitutes the refereed proceedings of the 14th EuropeanWorkshop on Computer Performance Engineering EPEW 2017 held in Berlin Germany in September 2017 The 18 papers presented together with the abstracts of two invited talks in this volume were carefully reviewed and selected from 30 submissions The papers presented at the workshop reflect the diversity of modern performanceengineering with topics ranging from advances in Markov models advances in quantitative analysis model checking and cyber physical systems to performance energy and security

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