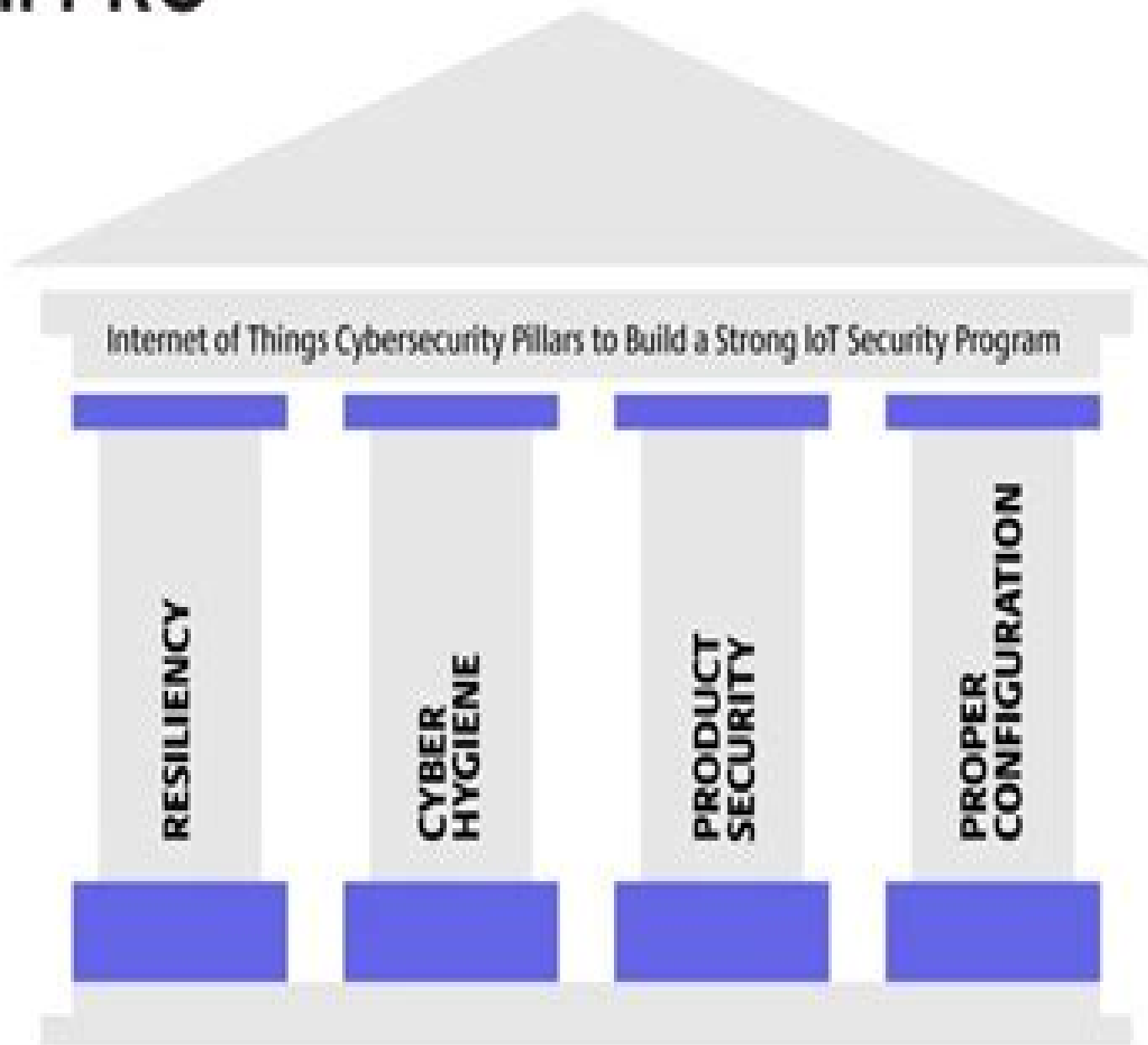




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Scott Mongeau, Andrzej Hajdasinski



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Cybersecurity Data Science Scott Mongeau, Andrzej Hajdasinski, 2021-10-01 This book encompasses a systematic exploration of Cybersecurity Data Science CSDS as an emerging profession focusing on current versus idealized practice This book also analyzes challenges facing the emerging CSDS profession diagnoses key gaps and prescribes treatments to facilitate advancement Grounded in the management of information systems MIS discipline insights derive from literature analysis and interviews with 50 global CSDS practitioners CSDS as a diagnostic process grounded in the scientific method is emphasized throughout Cybersecurity Data Science CSDS is a rapidly evolving discipline which applies data science methods to cybersecurity challenges CSDS reflects the rising interest in applying data focused statistical analytical and machine learning driven methods to address growing security gaps This book offers a systematic assessment of the developing domain Advocacy is provided to strengthen professional rigor and best practices in the emerging CSDS profession This book will be of interest to a range of professionals associated with cybersecurity and data science spanning practitioner commercial public sector and academic domains Best practices framed will be of interest to CSDS practitioners security professionals risk management stewards and institutional stakeholders Organizational and industry perspectives will be of interest to cybersecurity analysts managers planners strategists and regulators Research professionals and academics are presented with a systematic analysis of the CSDS field including an overview of the state of the art a structured evaluation of key challenges recommended best practices and an extensive bibliography

Cybersecurity Enhancement Act of 2009
United States. Congress. House. Committee on Science and Technology (2007), 2010

Machine Learning for Cyber Security Preeti Malik, Lata Nautiyal, Mangey Ram, 2022-12-05 This book shows how machine learning ML methods can be used to enhance cyber security operations including detection modeling monitoring as well as defense against threats to sensitive data and security systems Filling an important gap between ML and cyber security communities it discusses topics covering a wide range of modern and practical ML techniques frameworks and tools

Global Cyber Security Labor Shortage and International Business Risk Christiansen, Bryan, Piekarz, Agnieszka, 2018-10-05 Global events involving cybersecurity breaches have highlighted the ever growing dependence on interconnected online systems in international business The increasing societal dependence on information technology has pushed cybersecurity to the forefront as one of the most urgent challenges facing the global community today Poor cybersecurity is the primary reason hackers are able to penetrate safeguards in business computers and other networks and the growing global skills gap in cybersecurity simply exacerbates the problem Global Cyber Security Labor Shortage and International Business Risk provides emerging research exploring the theoretical and practical aspects of protecting computer systems against online threats as well as transformative business models to ensure sustainability and longevity Featuring coverage on a broad range of topics such as cybercrime technology security training and labor market understanding this book is ideally designed for professionals

managers IT consultants programmers academicians and students seeking current research on cyber security's influence on business education and social networks Cybersecurity Discussion Cases T. Grandon Gill, Cybersecurity affects us all every business school and citizen This book a collection of discussion case studies presents in depth examinations of eleven cybersecurity related decisions facing managers and researchers It is organized around the common cybersecurity framework Identify Protect Detect Respond and Recover It also includes two cases that specifically involve education These cases place the reader in the position of the decision maker featured in each case None of them have a right answer Instead they are specifically designed to 1 Serve as the basis of discussion either in an formal educational context and as part of an industry training program 2 Help participants refine their judgment skills allowing them to make better decisions when encountering similar contexts in their future career **Guide: Reporting on an Entity's Cybersecurity Risk**

Management Program and Controls, 2017 AICPA, 2017-06-12 Created by the AICPA this authoritative guide provides interpretative guidance to enable accountants to examine and report on an entity's cybersecurity risk management program and controls within that program The guide delivers a framework which has been designed to provide stakeholders with useful credible information about the effectiveness of an entity's cybersecurity efforts *Research Anthology on Advancements in Cybersecurity Education* Management Association, Information Resources, 2021-08-27 Modern society has become dependent on technology allowing personal information to be input and used across a variety of personal and professional systems From banking to medical records to e commerce sensitive data has never before been at such a high risk of misuse As such organizations now have a greater responsibility than ever to ensure that their stakeholder data is secured leading to the increased need for cybersecurity specialists and the development of more secure software and systems To avoid issues such as hacking and create a safer online space cybersecurity education is vital and not only for those seeking to make a career out of cybersecurity but also for the general public who must become more aware of the information they are sharing and how they are using it It is crucial people learn about cybersecurity in a comprehensive and accessible way in order to use the skills to better protect all data The Research Anthology on Advancements in Cybersecurity Education discusses innovative concepts theories and developments for not only teaching cybersecurity but also for driving awareness of efforts that can be achieved to further secure sensitive data Providing information on a range of topics from cybersecurity education requirements cyberspace security talents training systems and insider threats it is ideal for educators IT developers education professionals education administrators researchers security analysts systems engineers software security engineers security professionals policymakers and students **Department of Homeland Security Authorization Act for Fiscal Year 2006** United States. Congress. House. Select Committee on Homeland Security, 2005 **Department of Homeland Security Authorization Act For Fiscal Year 2006, May 3, 2005, 109-1 House Report No. 109-71, Part 1**, 2005 **Advances in Teaching and Learning for Cyber Security Education** Phil Legg, Natalie Coull, Charles

Clarke,2024-12-27 This book showcases latest trends and innovations for how we teach and approach cyber security education Cyber security underpins the technological advances of the 21st century and is a fundamental requirement in today s society Therefore how we teach and educate on topics of cyber security and how we overcome challenges in this space require a collective effort between academia industry and government The variety of works in this book include AI and LLMs for cyber security digital forensics and how teaching cases can be generated at scale events and initiatives to inspire the younger generations to pursue cyber pathways assessment methods that provoke and develop adversarial cyber security mindsets and innovative approaches for teaching cyber management concepts As a rapidly growing area of education there are many fascinating examples of innovative teaching and assessment taking place however as a community we can do more to share best practice and enhance collaboration across the education sector CSE Connect is a community group that aims to promote sharing and collaboration in cyber security education so that we can upskill and innovate the community together The chapters of this book were presented at the 4th Annual Advances in Teaching and Learning for Cyber Security Education conference hosted by CSE Connect at the University of the West of England Bristol the UK on July 2 2024 The book is of interest to educators students and practitioners in cyber security both for those looking to upskill in cyber security education as well as those aspiring to work within the cyber security sector

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