

1. Record Nr.	UNINA9910736497203321
Autore	Booth Jody
Titolo	Demystifying Intelligent Multimode Security Systems : An Edge-to-Cloud Cybersecurity Solutions Guide / / by Jody Booth, Werner Metz, Anahit Tarkhanyan, Sunil Cheruvu
Pubbl/distr/stampa	Berkeley, CA : , : Apress : , : Imprint : Apress, , 2023
ISBN	9781484282977 1484282973
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (292 pages)
Classificazione	COM053000
Disciplina	005.8
Soggetti	Computer science Computer Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Chapter 1: Introduction and Overview -- Chapter 2: Architecting an E2E IMSS Data Pipeline -- Chapter 3: Architecting an E2E DSS Data Pipeline -- Chapter 4: Securing the IMSS Assets -- Chapter 5: Machine Learning Security -- Chapter 6: Sample Applications -- Chapter 7: Looking Into the Future -- Chapter 8: As We Go To Press.
Sommario/riassunto	This open access book. Use this practical guide to understand the concepts behind Intelligent Multimode Security Systems (IMSS) and how to implement security within an IMSS system to improve the robustness of the devices and of the end-to-end solution. There are nearly half a billion active IMSS cameras globally, with over 100 million added annually. These cameras are used across enterprises (companies, traffic monitoring, driver enforcement, etc.), in peoples' homes, on mobile devices (drones, on-vehicle, etc.), and are worn on the body. IMSS systems with a camera and network video recorder for storage are becoming the normal infrastructure for capturing, storing, and transmitting video content (sometimes up to 100 streams) in a secure manner and while protecting privacy. Military, aerospace, and government entities are also embracing digital security and surveillance. IMSS content serves as evidence in courts of law. Security within all of these types of IMSS systems needs to be bolstered by

leveraging Intel hardware and software as the last line of defense, and this book provides you with best practices and solutions for maximizing security in your system implementation. What You Will Learn Review the relevant technologies in a surveillance system Define and dissect the data pipeline with a focus on key criteria and understand the mapping of this pipeline to Intel hardware blocks Optimize the partition and future-proof it with security and manageability Understand threat modeling terminology, the assets pertinent to DSS, and emerging threats, and learn how to mitigate these threats using Intel hardware and software Understand the unique risks and threats to the intelligence in IMSS (machine learning training and inferencing, regulations, and standards) and explore the solution space for mitigations to these threats Sample applications illustrate how to design in security for several types of IMSS.— Explore ways to keep both yourself and your systems up to date in a rapidly changing technology and threat environment.
