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*This comprehensive Research
Handbook examines the key*

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drivers of the arms trade, mapping the main trends in Asia, Europe, the Middle East, Africa and Latin America. It also explores the principal defence markets internationally, including the US, China, India, Russia and

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the UK in greater detail.

This book presents sensemaking strategies to support security planning and design. Threats to security are becoming complex and multifaceted and increasingly challenging

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traditional notions of security. The security landscape is characterized as 'messes' and 'wicked problems' that proliferate in this age of complexity. Designing security solutions in the face of

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interconnectedness, volatility and uncertainty, we run the risk of providing the right answer to the wrong problem thereby resulting in unintended consequences.

Sensemaking is the activity that enables us to turn the ongoing

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complexity of the world into a “situation that is comprehended explicitly in words and that serves as a springboard into action” (Weick, Sutcliffe, Obstfeld, 2005). It is about creating an emerging picture of

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our world through data collection, analysis, action, and reflection. The importance of sensemaking to security is that it enables us to plan, design and act when the world as we knew it seems to have shifted. Leveraging the

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relevant theoretical grounding and thought leadership in sensemaking, key examples are provided, thereby illustrating how sensemaking strategies can support security planning and design. This is a critical

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*analytical and leadership
requirement in this age of
volatility, uncertainty, complexity
and ambiguity that characterizes
the security landscape. This
book is useful for academics,
graduate students in global*

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security, and government and security planning practitioners. Provides a comprehensive introduction to the design and analysis of unmanned aircraft systems with a systems perspective Written for students

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and engineers who are new to the field of unmanned aerial vehicle design, this book teaches the many UAV design techniques being used today and demonstrates how to apply aeronautical science concepts to

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their design. Design of Unmanned Aerial Systems covers the design of UAVs in three sections—vehicle design, autopilot design, and ground systems design—in a way that allows readers to fully

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comprehend the science behind the subject so that they can then demonstrate creativity in the application of these concepts on their own. It teaches students and engineers all about: UAV classifications, design groups,

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design requirements, mission planning, conceptual design, detail design, and design procedures. It provides them with in-depth knowledge of ground stations, power systems, propulsion systems, automatic

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flight control systems, guidance systems, navigation systems, and launch and recovery systems. Students will also learn about payloads, manufacturing considerations, design challenges, flight software,

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microcontroller, and design examples. In addition, the book places major emphasis on the automatic flight control systems and autopilots. Provides design steps and procedures for each major component Presents

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*several fully solved, step-by-step
examples at component level*

Includes numerous UAV

*figures/images to emphasize the
application of the concepts*

*Describes real stories that stress
the significance of safety in UAV*

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design Offers various UAV configurations, geometries, and weight data to demonstrate the real-world applications and examples Covers a variety of design techniques/processes such that the designer has

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freedom and flexibility to satisfy the design requirements in several ways Features many end-of-chapter problems for readers to practice Design of Unmanned Aerial Systems is an excellent text for courses in the design of

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unmanned aerial vehicles at both the upper division undergraduate and beginning graduate levels. In recent years, drones have been integrated with the Internet of Things to offer a variety of exciting new applications. Here

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*is a detailed exploration of
adapting and implementing
Internet of Drones technologies
in real-world applications,
emphasizing solutions to
architectural challenges and
providing a clear overview of*

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standardization and regulation, implementation plans, and privacy concerns. The book discusses the architectures and protocols for drone communications, implementing and deploying of 5G-drone

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setups, security issues, deep learning techniques applied on real-time footage, and more. It also explores some of the varied applications, such as for monitoring and analysis of troposphere pollutants, providing

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services and communications in smart cities (such as for weather forecasting, communications, transport, safety and protection), for disaster relief management, for agricultural crop monitoring, and more.

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*Unmanned Aircraft Design
Techniques*

IoT with Smart Systems

*Crime Science and Digital
Forensics*

Advances in Automation II

Proceedings of MICRADS 2020

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*Advanced Technology, Tools
and Materials for the Digital
Transformation of the
Construction Industry
5th EAI International Conference
on Management of
Manufacturing Systems*

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This book constitutes the refereed proceedings of the 15th International Conference on Trust, Privacy and Security in Digital Business, TrustBus 2018, held in Regensburg, Germany, in September 2018 in conjunction with DEXA 2018. The 15 revised full papers presented were carefully reviewed and

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selected from 29 submissions. The papers are organized in the following topical sections: Permission models and cloud, privacy, proactive security measures, and cyber physical systems.

This book constitutes the refereed conference proceedings of the 12th

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International Conference on Security and Privacy in Communications Networks, SecureComm 2016, held in Guangzhou, China, in October 2016. The 32 revised full papers and 18 poster papers were carefully reviewed and selected from 137 submissions. The papers are organized thematically

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starting with mobile and network security, followed by applied cryptography, web security and privacy, system security, hardware security. The volume also includes papers from the ATCS workshop and the poster session.

To advantageously plan and design for

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the explosive near-future increase in the number of unmanned aerial vehicles (UAVs) and their demanding applications, integration of UAVs into cellular communication systems has seen increasing interest. This book provides a timely and comprehensive overview of the recent research efforts

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and results of unmanned aerial vehicles (UAVs)-integrated cellular network communications. The aim of the book is to provide a comprehensive coverage of the potential applications, networking architectures, latest research findings and key enabling technologies,

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experimental measurement results, as well as up-to-date industry standardizations for UAV communications in cellular systems, including the existing LTE as well as the future 5G-and-beyond systems. This book constitutes the refereed proceedings of the 11th International

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Conference on Applications and Techniques in Information Security, ATIS 2020, held in Brisbane, QLD, Australia, in November 2020. Due to the COVID-19 pandemic the conference was held online. The 8 full papers presented in the volume were carefully reviewed and selected

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from 24 submissions. The papers are focused on all aspects on techniques and applications in information security research.

Research Handbook on the Arms Trade

2020 11th International Conference on Information and Communication

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Systems (ICICS)

*Smart Systems and IoT: Innovations in
Computing*

*Trust, Privacy and Security in Digital
Business*

ICCWS 2019

*Developments and Advances in
Defense and Security*

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*Autonomous and Semiautonomous
Weapons Systems*

The Special Issue “Radar and
Sonar Imaging Processing” is a
collection of 21 articles exploring
many topics related to remote
sensing with radar and sonar

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sensors. In this editorial, we present short introductions of the published articles. The series of articles in this SI deal with a broad profile of aspects of the use of radar and sonar images in line with the latest scientific

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trends while making use of the latest developments in science, including artificial intelligence. It can be said that both radar and sonar imaging and processing still remain a “hot topic” and much research in this area is

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being conducted worldwide. New techniques and methods for extracting information from radar and sonar sensors and data have been proposed and verified. Some of these will stimulate further research while

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others have reached maturity and can be considered for industrial implementation and development.

This volume is a collation of articles on counter forensics practices and digital investigative

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methods from the perspective of crime science. The book also shares alternative dialogue on information security techniques used to protect data from unauthorised access and manipulation. Scandals such as

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those at OPCW and Gatwick Airport have reinforced the importance of crime science and the need to take proactive measures rather than a wait and see approach currently used by many organisations. This book

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proposes a new approach in dealing with cybercrime and unsociable behavior involving remote technologies using a combination of evidence-based disciplines in order to enhance cybersecurity and authorised

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controls. It starts by providing a rationale for combining selected disciplines to enhance cybersecurity by discussing relevant theories and highlighting the features that strengthen privacy when mixed. The

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essence of a holistic model is brought about by the challenge facing digital forensic professionals within environments where tested investigative practices are unable to provide satisfactory

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evidence and security. This book will be of interest to students, digital forensic and cyber security practitioners and policy makers. It marks a new route in the study of combined disciplines to tackle cybercrime using digital

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investigations and crime science. This book gathers selected high-quality research papers presented at the International Conference on Paradigms of Communication, Computing and Data Sciences (PCCDS 2021),

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held at the National Institute of Technology, Kurukshetra, India, during May 07–09, 2021. It discusses high-quality and cutting-edge research in the areas of advanced computing, communications, and data

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science techniques. The book is a collection of latest research articles in computation algorithm, communication, and data sciences, intertwined with each other for efficiency.

Digital Agritechnology: Robotics

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and Systems for Agriculture and Livestock Production describes how systems acquire and use data in livestock production and agricultural systems, and how researchers can extract and aggregate efficiencies. The

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origins of digital agritechology are decades old, with robotic milkers available for over 20 years and GPS-based tractor controls existing for nearly 30. However, only a few capabilities of these sensing and control

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systems are used. This book addresses the need to educate agriculturists on the full usage scale of these arable and livestock systems. Features how-to guides on extracting and analyzing data from digital

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systems Describes quality standards for data security and transmission Focuses on state-of-the-art systems in livestock production, along with arable and indoor agriculture

Proceedings of the International

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Conference on Paradigms of
Communication, Computing and
Data Sciences

15th International Conference,
TrustBus 2018, Regensburg,
Germany, September 5–6, 2018,
Proceedings

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8th International Conference,
ICAIS 2022, Qinghai, China, July
15–20, 2022, Proceedings, Part
II

ICCWS 2019 14th International
Conference on Cyber Warfare
and Security

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Smart Cities

9th International Conference,
ICDF2C 2017, Prague, Czech
Republic, October 9-11, 2017,
Proceedings

Digital Agritechnology

The 2-volume set LNCS 10850 and

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10851 constitutes the refereed proceedings of the 5th International Conference on Augmented Reality, Virtual Reality, and Computer Graphics, AVR 2018, held in Otranto, Italy, in June 2018. The 67 full papers and 26 short papers

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presented were carefully reviewed and selected from numerous submissions. The papers are organized in the following topical sections: virtual reality; augmented and mixed reality; computer graphics; human-computer

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interaction; applications of VR/AR in medicine; and applications of VR/AR in cultural heritage; and applications of VR/AR in industry. This comprehensive resource explains the development of UAVs, drone threats, counter-UAV

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systems, and strategies to handle UAVs, focusing on the practical aspects of counter-unmanned aerial vehicle (UAV) systems and technologies. Theory, technical and operational practice with insights from industry and policing are

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covered, and the full rogue drone threat landscape and counter-drone technologies and systems is explored. The book provides insight into counter-drone strategy, developing effective counter-drone strategies and measures, as well as

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counter-drone programs and the regulatory frameworks governing the use of drones. It includes analysis of future drone and counter-drone challenges and highlights ongoing research and innovation activities and an examination of future drone

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technologies. Written by authors who have extensive academic, research, innovation, technical, industry and police operational investigative expertise at international level, this book is useful for the aviation sector, law

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enforcement and academia.

Terrorism: Commentary on Security Documents is a series that provides primary source documents and expert commentary on various topics relating to the worldwide effort to combat terrorism, as well as

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efforts by the United States and other nations to protect their national security interests. Volume 144, Autonomous and Semiautonomous Weapons Systems, examines the impact of robots and autonomous and semiautonomous

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weapons systems on the waging of modern warfare. It considers the likely effects of emerging technological innovations in this area from both a political and strategic standpoint, in addition to considering the implications of such

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technologies within the context of the law of armed conflict and international humanitarian law. This volume is divided into three sections: (1) U.S. policy and approaches to the use of autonomous and semiautonomous weapons systems;

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(2) U.S. armed forces use of such weapons systems; and (3) potential terrorist use of such weapons systems. Official policy documents from the DoD and the U.S. Army and Air Force are complemented by reports from the

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Strategic Studies Institute/Army
War College Press and other U.S.
military sources.

This three-volume set LNCS
13338-13340 constitutes the
thoroughly refereed proceedings of
the 8th International Conference on

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Artificial Intelligence and Security, ICAIS 2022, which was held in Qinghai, China, in July 2022. The total of 166 papers included in the 3 volumes were carefully reviewed and selected from 1124 submissions. The papers present research,

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development, and applications in
the fields of artificial intelligence and
information security

Countermeasures for Aerial Drones
PCCDS 2021

The Internet of Drones

How Open Technological

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Innovation is Arming Tomorrow's
Terrorists

How to Analyze the Cyber Threat
from Drones

Robotics and Systems for
Agriculture and Livestock
Production

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5th International Conference, FNSS
2019, Melbourne, VIC, Australia,
November 27 – 29, 2019,
Proceedings

***This book provides a valuable
reference for digital forensics
practitioners and cyber***

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security experts operating in various fields of law enforcement, incident response and commerce. It is also aimed at researchers seeking to obtain a more profound knowledge of Digital Forensics and Cybercrime.

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Furthermore, the book is an exceptional advanced text for PhD and Master degree programmes in Digital Forensics and Cyber Security. Each chapter of this book is written by an internationally-renowned expert who has

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extensive experience in law enforcement, industry and academia. The increasing popularity in the use of IoT devices for criminal activities means that there is a maturing discipline and industry around IoT forensics.

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As technology becomes cheaper and easier to deploy in an increased number of discrete, everyday objects, scope for the automated creation of personalised digital footprints becomes greater. Devices which are

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presently included within the Internet of Things (IoT) umbrella have a massive potential to enable and shape the way that humans interact and achieve objectives. These also forge a trail of data that can be used to triangulate

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and identify individuals and their actions. As such, interest and developments in autonomous vehicles, unmanned drones and 'smart' home appliances are creating unprecedented opportunities for the research communities

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***to investigate the production
and evaluation of evidence
through the discipline of
digital forensics.***

***This book gathers papers
addressing state-of-the-art
research in all areas of
information and***

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communication technologies and their applications in intelligent computing, cloud storage, data mining and software analysis. It presents the outcomes of the Fifth International Conference on Information and

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Communication Technology for Intelligent Systems (ICTIS 2021), held in Ahmedabad, India. The book is divided into two volumes. It discusses the fundamentals of various data analysis techniques and algorithms, making it a

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***valuable resource for
researchers and practitioners
alike.***

***Precision agriculture
integrates new technologies
with the agronomic
experience to intelligently
manage the high spatial***

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variability of all agricultural variables and the time scales at which these variables change. The right application of this approach increases the size and quality of the agricultural production; saves resources; improves

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environmental quality; helps to achieve self-sufficiency, food security, and agricultural sustainability; increases exports; and more. Precision Agriculture Technologies for Food Security and Sustainability is an essential

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***reference source that
compiles a comprehensive,
multidisciplinary review of
current research in the field
of precision agriculture. It
also discusses cutting-edge
tools and models that can
help facilitate and improve***

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the systems implementation. Featuring coverage of a wide range of topics including agronomy, public policy, and internet of things, this book is ideally designed for agriculturalists, government officials, economists,

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***environmentalists,
academicians, researchers,
students, and engineers in
the fields of electronics, ICT,
and agriculture.***

***The Eleventh International
Conference on Information
and Communication Systems***

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(ICICS 2020) is a forum for scientists, engineers, and practitioners to present their latest research results, ideas, developments, and applications in all areas of Computer and Information Sciences The topics that will

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***be covered in ICICS 2020
include, but are not limited to
Data Science and Its
Applications, Security,
privacy, digital forensics and
blockchain, Networking and
Mobile Computing, Software
and web Engineering,***

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***Multimedia, Computer Vision
and Image Processing, AI and
Machine Learning,
Information Systems and
Health Informatics, Internet
of Things (IoT), Cloud High
Performance Computing,
Communication Systems and***

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***Signal Processing
Background, Analysis
Frameworks, and Analysis
Tools***

***12th EAI International
Conference, ICDF2C 2021,
Virtual Event, Singapore,
December 6-9, 2021,***

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Proceedings

Titanium for Consumer Applications Proceedings of the International Russian Automation Conference, RusAutoConf2020, September

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6-12, 2020, Sochi, Russia
Future Network Systems and
Security
5th International Conference,
AVR 2018, Otranto, Italy, June
24-27, 2018, Proceedings,
Part II

This book aims to provide

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*the latest research
developments and results
in the domain of AI
techniques for smart cyber
ecosystems. It presents a
holistic insight into AI-
enabled theoretic*

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*approaches and methodology
in IoT networking,
security analytics using
AI tools and network
automation, which
ultimately enable
intelligent cyber space.*

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This book will be a valuable resource for students, researchers, engineers and policy makers working in various areas related to cybersecurity and privacy

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for Smart Cities. This book includes chapters titled "An Overview of the Artificial Intelligence Evolution and Its Fundamental Concepts, and Their Relationship with

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*IoT Security", "Smart
City: Evolution and
Fundamental Concepts",
"Advances in AI-Based
Security for Internet of
Things in Wireless
Virtualization*

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*Environment", "A
Conceptual Model for
Optimal Resource Sharing
of Networked Microgrids
Focusing Uncertainty:
Paving Path to Eco-
friendly Smart Cities", "A*

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*Novel Framework for a
Cyber Secure Smart City",
"Contemplating Security
Challenges and Threats for
Smart Cities", "Self-
Monitoring Obfuscated IoT
Network", "Introduction to*

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*Side Channel Attacks and
Investigation of Power
Analysis and Fault
Injection Attack
Techniques",
"Collaborative Digital
Forensic Investigations*

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*Model for Law Enforcement:
Oman as a Case Study",
"Understanding Security
Requirements and
Challenges in the
Industrial Internet of
Things: A Review", "5G*

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*Security and the Internet
of Things", "The Problem
of Deepfake Videos and How
to Counteract Them in
Smart Cities", "The Rise
of Ransomware Aided by
Vulnerable IoT Devices",*

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"Security Issues in Self-Driving Cars within Smart Cities", and "Trust-Aware Crowd Associated Network-Based Approach for Optimal Waste Management in Smart Cities". This book

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*provides state-of-the-art
research results and
discusses current issues,
challenges, solutions and
recent trends related to
security and organization
within IoT and Smart*

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Cities. We expect this book to be of significant importance not only to researchers and practitioners in academia, government agencies and industries, but also for

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policy makers and system managers. We anticipate this book to be a valuable resource for all those working in this new and exciting area, and a "must have" for all university

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libraries.

*At the beginning of the
Fourth Industrial
Revolution, the advent of
digitalization, innovative
technologies and
materials, and new*

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*construction techniques
have begun transforming
the way that
infrastructure, real
estate, and other built
assets can be designed,
constructed, and operated*

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in order to create a more attractive, energy-efficient, comfortable, affordable, safe, and sustainable built environment. Developments in materials and cutting-

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edge technologies (such as artificial intelligence, robotics, nanotechnology, 3D printing, and biotechnology) have finally started to move the construction towards a

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new era. Massive changes are occurring as a result of the possibilities created by big data and the Internet of Things, along with the technological advances

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that are driving down the cost of sensors, data storage, and computer services. Construction 4.0: Advanced Technology, Tools and Materials for the Digital Transformation

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of the Construction Industry presents a thorough review of developments in materials, emerging trends, cutting-edge technologies, and strategies in the fields

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*of smart building design,
construction, and
operation, providing the
reader with a
comprehensive guideline on
how to exploit the new
possibilities offered by*

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the digital revolution. It will be an essential reference resource for academic researchers, material scientists, and civil engineers, undergraduate and graduate

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students, and other professionals working in the fields of smart eco-efficient construction and cutting-edge technologies applied to construction. Features discussions on

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how nanomaterials, bio-based materials, and recycled materials are applied in the construction of buildings Analyzes the lifecycle of materials, buildings and

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*design and construction
operations Covers new
methodologies and
construction processes
Provides case studies on
cutting-edge digital
technology such as AI and*

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*machine learning Examines
all aspects of
sustainability, including
end-of-life of buildings
This book constitutes the
refereed proceedings of
the 5th International*

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*Conference on Future
Network Systems and
Security, FNSS 2019, held
in Melbourne, Australia,
in November 2019. The 16
full papers and two short
papers presented were*

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*carefully reviewed and
selected from 38
submissions. The papers
are organized in topical
sections on?emerging
networks and applications;
security, privacy and*

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*trust; and security
analytics and forensics
Titanium for Consumer
Applications: Review of
the use of Titanium within
the Consumer Industry is
the first book to tie*

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together the metallurgical advantages of titanium in consumer applications. The book begins with a discussion of the metallurgy and properties of titanium that is

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followed by six distinct sections that look at the use of titanium in consumer products, the auto industry, buildings and architecture, marine, chemical processing

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facilities and the energy field. This book is useful for individuals involved in the manufacturing of titanium components, as well as those looking to define new applications

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*for this versatile metal.
Presents an understanding
of the applications of
titanium in commercial
industries Discusses the
properties of titanium and
their unique benefits in*

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*commercial applications
Reviews potential further
applications of titanium
within the consumer
industry
Power to the People
Radar and Sonar Imaging*

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*and Processing
Precision Agriculture
Technologies for Food
Security and
Sustainability
Cyber and Digital Forensic
Investigations*

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*Proceedings of ICTIS 2021
Handbook of Big Data
Analytics and Forensics
AI Applications for Smart
Solutions*

**Trust, Privacy and Security in Digital
Business 15th International Conference,**

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TrustBus 2018, Regensburg, Germany,
September 5–6, 2018,

ProceedingsSpringer

Understanding the latest capabilities in
the cyber threat landscape as well as
the cyber forensic challenges and
approaches is the best way users and

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organizations can prepare for potential negative events. Adopting an experiential learning approach, this book describes how cyber forensics researchers, educators and practitioners can keep pace with technological advances, and acquire the essential

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knowledge and skills, ranging from IoT forensics, malware analysis, and CCTV and cloud forensics to network forensics and financial investigations. Given the growing importance of incident response and cyber forensics in our digitalized society, this book will

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be of interest and relevance to researchers, educators and practitioners in the field, as well as students wanting to learn about cyber forensics.

This book gathers the proceedings of the Multidisciplinary International Conference of Research Applied to

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Defense and Security (MICRADS), held at the Eloy Alfaro Military Academy (ESMIL) in Quito, Ecuador, on May 13–15, 2020. It covers a broad range of topics in systems, communication, and defense; strategy and political–administrative vision in

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defense; and engineering and technologies applied to defense. Given its scope, it offers a valuable resource for practitioners, researchers, and students alike.

In the age of global climate change, society will require cities that are

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environmentally self-sufficient, able to withstand various environmental problems and recover quickly. It is interesting to note that many "smart" solutions for cities are leading to an unsustainable future, including further electrification, an increased

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dependence on the Internet, Internet of Things, Big Data, and Artificial Intelligence, and basically any technology that leads us to consume more electricity. This book examines critical topics in Smart Cities such as true sustainability and the resilience

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required for all cities. It explores sustainability issues in agriculture and the role of agri-technology for a sustainable future, including a city's ability to locally produce food for its residents. Features: Discusses safety, security, data management, and privacy

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issues in Smart Cities Examines the various emerging forms of transportation infrastructure and new vehicle technology Considers how energy efficiency can be achieved through behavioral change through specific building operations Smart

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Cities: Critical Debates on Big Data, Urban Development and Social Environmental Sustainability brings awareness to professionals working in the fields of environmental, civil, and transportation engineering, urban planners, and political leaders about

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different environmental aspects of Smart Cities and refocuses attention on critical urban infrastructure that will be necessary to respond to future challenges including climate change, food insecurity, natural hazards, energy production, and resilience.

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A Law Enforcement Practitioner's
Perspective

Augmented Reality, Virtual Reality,
and Computer Graphics

Examining Emerging and Hybrid
Technologies

Security and Organization within IoT

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and Smart Cities

Artificial Intelligence and Security

Construction 4.0

Cyber Forensics

**The authors explore
approaches for
understanding, inventorying,**

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and modeling cybersecurity implications of unmanned aerial systems (drones), and examine the threats and trends around them--specifically, current vulnerabilities and future trends.

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The book features original papers from the 2nd International Conference on Smart IoT Systems: Innovations and Computing (SSIC 2019), presenting scientific work related to smart solution concepts. It

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discusses computational collective intelligence, which includes interactions between smart devices, smart environments and smart interactions, as well as information technology support for such areas. It also

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describes how to successfully approach various government organizations for funding for business and the humanitarian technology development projects. Thanks to the high-quality content and the broad range of the

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**topics covered, the book
appeals to researchers
pursuing advanced studies.
Never have so many possessed
the means to be so lethal. The
diffusion of modern
technology (robotics, cyber
weapons, 3-D printing,**

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autonomous systems, and artificial intelligence) to ordinary people has given them access to weapons of mass violence previously monopolized by the state. In recent years, states have attempted to stem the flow of

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such weapons to individuals and non-state groups, but their efforts are failing. As Audrey Kurth Cronin explains in Power to the People, what we are seeing now is an exacerbation of an age-old trend. Over the centuries, the

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**most surprising developments
in warfare have occurred
because of advances in
technologies combined with
changes in who can use them.
Indeed, accessible innovations
in destructive force have long
driven new patterns of**

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political violence. When Nobel invented dynamite and Kalashnikov designed the AK-47, each inadvertently spurred terrorist and insurgent movements that killed millions and upended the international system. That

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history illuminates our own situation, in which emerging technologies are altering society and redistributing power. The twenty-first century "sharing economy" has already disrupted every institution, including the

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**armed forces. New "open"
technologies are transforming
access to the means of
violence. Just as importantly,
higher-order functions that
previously had been
exclusively under state
military control - mass**

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**mobilization, force projection,
and systems integration - are
being harnessed by non-state
actors. Cronin closes by
focusing on how to respond so
that we both preserve the
benefits of emerging
technologies yet reduce the**

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risks. Power, in the form of lethal technology, is flowing to the people, but the same technologies that empower can imperil global security - unless we act strategically. These proceedings gather papers presented at the Cyber

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**Security Education Stream
and Cyber Security
Technology Stream of The
National Cyber Summit's
Research Track, and report on
the latest advances in areas
ranging from software
security to cyber attack**

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detection and modeling; the use of machine learning in cyber security; legislation and policy; surveying small businesses; cyber competition, and so on. Understanding the latest capabilities in cyber security

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is the best way to prepare users and organizations for potential negative events. Consequently, this book will be of interest to cyber security researchers, educators and practitioners, as well as students who want to learn

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about cyber security.

12th International

Conference, SecureComm

2016, Guangzhou, China,

October 10-12, 2016,

Proceedings

Crime Prevention in the 21st

Century

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**Critical Debates on Big Data,
Urban Development and
Social Environmental
Sustainability
A Holistic View
Applications and Techniques
in Information Security
UAV Communications for 5G**

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and Beyond Digital Forensics and Cyber Crime

Threat actors, be they cyber criminals, terrorists, hacktivists or disgruntled employees, are employing sophisticated attack

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techniques and anti-forensics tools to cover their attacks and breach attempts. As emerging and hybrid technologies continue to influence daily business decisions, the proactive use of cyber forensics

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to better assess the risks that the exploitation of these technologies pose to enterprise-wide operations is rapidly becoming a strategic business objective. This book moves beyond the typical, technical

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approach to discussing cyber forensics processes and procedures. Instead, the authors examine how cyber forensics can be applied to identifying, collecting, and examining evidential data from emerging

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and hybrid technologies, while taking steps to proactively manage the influence and impact, as well as the policy and governance aspects of these technologies and their effect on business operations. A world-

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class team of cyber forensics researchers, investigators, practitioners and law enforcement professionals have come together to provide the reader with insights and recommendations into the

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proactive application of cyber forensic methodologies and procedures to both protect data and to identify digital evidence related to the misuse of these data. This book is an essential guide for both the technical and

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non-technical executive,
manager, attorney, auditor, and
general practitioner who is
seeking an authoritative source
on how cyber forensics may be
applied to both evidential data
collection and to proactively

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managing today's and tomorrow's emerging and hybrid technologies. The book will also serve as a primary or supplemental text in both under- and post-graduate academic programs addressing

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information, operational and emerging technologies, cyber forensics, networks, cloud computing and cybersecurity. This volume brings together a series of original contributions made by international experts

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dedicated to guiding efforts in preventing crime. The collection is divided into seven sections that cover cutting edge approaches to crime prevention: 1) the offenders' perspective on crime prevention 2) crime script

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analysis 3) crime mapping and spatial analysis 4) social network analysis 5) agent-based modelling 6) crime-proofing legislations 7) technologies of crime prevention Each section includes one theoretical chapter

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to introduce the research approach followed by a series of empirical/applied contributions. The theoretical chapter aims to introduce and explain the approach of interest and discusses under which

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circumstances this strategy could best assist crime prevention. The objective of empirical/applied contributions is simply to showcase how these approaches can be apply. This collection can be seen as the end

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result of the convergence of novel ideas and analytical skills in the area of crime and crime prevention worldwide. It will be of interest to researchers in Criminology and Criminal Justice, as well as related fields

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like Sociology and Psychology, Security, Urban Planning, and Public Policy.

This book reports on innovative research and developments in automation. Spanning a wide range of disciplines, including

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communication engineering,
power engineering, control
engineering, instrumentation,
signal processing and
cybersecurity, it focuses on
methods and findings aimed at
improving the control and

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monitoring of industrial and manufacturing processes as well as safety. Based on the International Russian Automation Conference, held on September 6–12, 2020, in Sochi, Russia, the book provides

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academics and professionals with a timely overview of and extensive information on the state of the art in the field of automation and control systems, and fosters new ideas and collaborations between groups

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in different countries.

This book constitutes the refereed proceedings of the 9th International Conference on Digital Forensics and Cyber Crime, ICDF2C 2017, held in Prague, Czech Republic, in

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October 2017. The 18 full papers were selected from 50 submissions and are grouped in topical sections on malware and botnet, deanonymization, digital forensics tools, cybercrime investigation and digital

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forensics triage, digital forensics
tools testing and validation,
hacking

13th International Conference on
Computational Intelligence in
Security for Information Systems
(CISIS 2020)

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Security and Privacy in
Communication Networks
11th International Conference,
ATIS 2020, Brisbane, QLD,
Australia, November 12-13, 2020,
Proceedings
Insightful Approaches for Crime

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Prevention Initiatives
Terrorism: Commentary on
Security Documents Volume 144
Sensemaking for Security
Digital Forensic Investigation of
Internet of Things (IoT) Devices
The book presents the

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proceedings of the 5th EAI International Conference on Management of Manufacturing Systems (MMS 2020), which took place online on October 27-29, 2020. The conference covers the management of

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manufacturing systems with support for Industry 4.0, logistics and intelligent manufacturing systems and applications, cooperation management, and its effective applications. Topics include

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RFID applications, economic impacts in logistics, ICT support for Industry 4.0, industrial and smart Logistics, intelligent manufacturing systems and applications, and much more. The topic is of interest to

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researchers, practitioners,
students, and academics in
manufacturing and
communications engineering.
This book contains accepted
papers presented at CISIS 2020
held in the beautiful and historic

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city of Burgos (Spain), in September 2020. The aim of the CISIS 2020 conference is to offer a meeting opportunity for academic and industry-related researchers belonging to the various, vast communities of

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computational intelligence, information security, and data mining. The need for intelligent, flexible behaviour by large, complex systems, especially in mission-critical domains, is intended to be the catalyst and

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the aggregation stimulus for the overall event. After a thorough peer-review process, the CISIS 2020 International Program Committee selected 43 papers which are published in these conference proceedings

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achieving an acceptance rate of 28%. Due to the COVID-19 outbreak, the CISIS 2020 edition was blended, combining on-site and on-line participation. In this relevant edition, a special emphasis was put on the

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organization of five special sessions related to relevant topics as Fake News Detection and Prevention, Mathematical Methods and Models in Cybersecurity, Measurements for a Dynamic Cyber-Risk

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Assessment, Cybersecurity in a
Hybrid Quantum World,
Anomaly/Intrusion Detection,
and From the least to the least:
cryptographic and data
analytics solutions to fulfil least
minimum privilege and endorse

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least minimum effort in information systems. The selection of papers was extremely rigorous in order to maintain the high quality of the conference and we would like to thank the members of the

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Program Committees for their hard work in the reviewing process. This is a crucial process to the creation of a high standard conference, and the CISIS conference would not exist without their help.

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Proceeding of SSIC 2019
National Cyber Summit (NCS)
Research Track
Review of the use of Titanium
within the Consumer Industry