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TS5FH0 - MARISSA EDWARDS

This book constitutes the refereed joint proceedings of seven international workshops held in conjunction with the 5th International Symposium on Parallel and Distributed Processing and Applications, ISPA 2007, held in Niagara Falls, Canada in August 2007. The 53 revised full papers presented were carefully selected from many high quality submissions. The workshops contribute to enlarging the spectrum of the more general topics treated in the ISPA 2007 main conference.
The two volume set, LNCS 11735 and 11736, constitutes the proceedings of the 24th European Symposium on Research in Computer Security, ESORIC 2019, held in Luxembourg, in September 2019. The total of 67 full papers included in these proceedings was carefully reviewed and selected from 344 submissions. The papers were organized in topical sections named as follows: Part I: machine learning; information leakage; signatures and re-encryption; side channels; formal modelling and verification; attacks; secure protocols; useful tools; blockchain and smart contracts. Part II: software security; cryptographic protocols; security models; searchable encryption; privacy; key exchange protocols; and web security.
This book explores the status of paper-based diagnostic solutions, or Microfluidics 2.0. The contributors explore: how paper-based tests can be widely distributed and utilized by semi-skilled personnel; how close to commercial applications the technology has become, and what is still required to make paper-based diagnostics the game-changer it can be. The technology is examined through the lens of the World Health Organization’s ASSURED criteria for low-resource countries (Affordable, Sensitive, Specific, User-friendly, Rapid and robust,

Equipment-free, and Deliverable to end-users). Its applications have to include: health technology, environmental technology, food safety, and more. This book is appropriate for researchers in these areas, as well as those interested in microfluidics, and includes chapters dedicated to principles such as theory of flow and surface treatments; components such as biomarkers and detection; and current methods of manufacturing. Discusses how paper-based diagnostics can be used in developing countries by comparing current diagnostic tests with the World Health Organization's ASSURED criteria Examines how paper-based diagnostics could be integrated with other technologies, such as printed electronics, and the Internet of Things. Outlines how semi-skilled personnel across a variety of fields can implement paper-based diagnostics

The two-volume set LNCS 7565 and 7566 constitutes the refereed proceedings of three confederated international conferences: Cooperative Information Systems (CoopIS 2012), Distributed Objects and Applications - Secure Virtual Infrastructures (DOA-SVI 2012), and Ontologies, DataBases and Applications of SEmantics (ODBASE 2012) held as part of OTM 2012 in September 2012 in Rome, Italy. The 53 revised full papers presented were carefully reviewed and selected from a total of 169 submissions. The 31 full papers included in the second volume constitute the proceedings of DOA-SVI 2012 with 10 full papers organized in topical sections on privacy in the cloud; resource management and assurance; context, compliance and attack; and ODBASE 2012 with 21 full papers organized in topical sections on using ontologies and semantics; applying probalistic techniques to semantic information; exploiting and querying semantic information; and managing and storing semantic information.

Gaining access to high-quality data is a vital necessity in knowledge-based decision making. But data in its raw form often contains sensitive information about individuals. Providing solutions to this problem, the methods and tools of privacy-preserving data publishing enable the publication of useful information while protecting data privacy. Introduction to Privacy-Preserving Data Publishing: Concepts and Techniques presents state-of-the-art information sharing and data integration methods that take into account privacy and data mining requirements. The first part of the book discusses the fundamentals of the field. In the second part, the authors present anonymization methods for preserving information utility for specific data mining tasks. The third part examines the privacy issues, privacy models, and anonymization methods for realistic and challenging data publishing scenarios. While the first three parts focus on anonymizing relational data, the last part studies the privacy threats, privacy models, and anonymization methods for complex data, including transaction, trajectory, social network, and textual data. This book not only explores privacy and information utility issues but also efficiency and scalability challenges. In many chapters, the authors highlight efficient and scalable methods and provide an analytical discussion to compare the strengths and weaknesses of different solutions.

The purpose of this book is to review the recent advances in E-health technologies and applications. In particular, the book investigates the recent advancements in physical design of medical devices, signal processing and emergent wireless technologies for E-health. In a second

part, novel security and privacy solutions for IoT-based E-health applications are presented. The last part of the book is focused on applications, data mining and data analytics for E-health using artificial intelligence and cloud infrastructure. E-health has been an evolving concept since its inception, due to the numerous technologies that can be adapted to offer new innovative and efficient E-health applications. Recently, with the tremendous advancement of wireless technologies, sensors and wearable devices and software technologies, new opportunities have arisen and transformed the E-health field. Moreover, with the expansion of the Internet of Things, and the huge amount of data that connected E-health devices and applications are generating, it is also mandatory to address new challenges related to the data management, applications management and their security. Through this book, readers will be introduced to all these concepts. This book is intended for all practitioners (industrial and academic) interested in widening their knowledge in wireless communications and embedded technologies applied to E-health, cloud computing, artificial intelligence and big data for E-health applications and security issues in E-health.

Recent advancements in mobile device technologies are revolutionizing how we socialize, interact, and connect. By connecting the virtual community with the local environment, mobile social networks (MSNs) create the opportunity for a multitude of new personalized services for mobile users. Along with that comes the need for new paradigms, mechanisms, and techniques with the capacity to autonomously manage their functioning and evolution. Currently, most books about mobile networks focus mainly on the technical point of view. Mobile Social Networking and Computing: A Multidisciplinary Integrated Perspective not only addresses the theoretical aspects of MSN and computing, but also introduces and categorizes existing applications. It supplies a multidisciplinary perspective that considers the technology, economics, social sciences, and psychology behind MSNs. In addition to fundamental theory, the book investigates the practical issues in MSN, including characteristics, inner structural relationship, incentive mechanisms, resource allocating, information diffusion, search, ranking, privacy, trust, and reputation. Introducing recently developed technologies, modes, and models, the book provides two distinct (but related) viewpoints about MSN applications: socially inspired networking technology and networking technology that uses recent advancements to enhance quality of life. The text illustrates the interaction between the macrolevel structure and the local rational behaviors (microlevel) in MSN. It summarizes currently available MSN development platforms, including Android and iOS, and introduces and categorizes existing applications related to MSN and computing. Both location-based service (LBS) and mobile social networks in proximity (MSNPs) are presented in a comprehensive manner. Highlighting key research opportunities, this much-needed reference outlines incentive mechanisms inspired by classical economics, behavioral economics, and social psychology, and, perhaps for the first time, it presents a summary of the economic and business models of MSNs.

This book constitutes the refereed proceedings of the 11th IFIP WG 11.11 International Conference on Trust Management, IFIPTM 2017, held in Gothenburg, Sweden, in June 2017. The 8 revised full papers and 6 short papers presented

were carefully reviewed and selected from 29 submissions. The papers are organized in the following topical sections: information sharing and personal data; novel sources of trust and trust information; applications of trust; trust metrics; and reputation systems. Also included is the 2017 William Winsborough commemorative address and three short IFIPTM 2017 graduate symposium presentations.

We are living in a world full of innovations for the elderly and people with special needs to use smart assistive technologies and smart homes to more easily perform activities of daily living, to continue in social participation, to engage in entertainment and leisure activities, and to enjoy living independently. These innovations are inspired by new technologies leveraging all aspects of ambient and pervasive intel- gence with related theories, technologies, methods, applications, and services on ub- uitous, pervasive, AmI, universal, mobile, embedded, wearable, augmented, invisible, hidden, context-aware, calm, amorphous, sentient, proactive, post–PC, everyday, autonomic computing from the engineering, business and organizational perspectives. In the field of smart homes and health telematics, significant research is underway to enable aging and disabled people to use smart assistive technologies and smart homes to foster independent living and to offer them an enhanced quality of life. A smart home is a vision of the future where computers and computing devices will be available naturally and unobtrusively anywhere, anytime, and by different means in our daily living, working, learning, business, and infotainment environments. Such a vision opens tremendous opportunities for numerous novel services/applications that are more immersive, more intelligent, and more interactive in both real and cyber spaces.

This volume constitutes the thoroughly refereed post-conference proceedings of the 11th International Conference on Security and Privacy in Communication Networks, SecureComm 2015, held in Dallas, TX, USA, in October 2015. The 29 regular and 10 poster papers presented were carefully reviewed and selected from 107 submissions. It also presents 9 papers accepted of the workshop on Applications and Techniques in Cyber Security, ATCS 2015. The papers are grouped in the following topics: mobile, system, and software security; cloud security; privacy and side channels; Web and network security; crypto, protocol, and model.

This two volume set LNCS 9261 and LNCS 9262 constitutes the refereed proceedings of the 26th International Conference on Database and Expert Systems Applications, DEXA 2015, held in Valencia, Spain, September 1-4, 2015. The 40 revised full papers presented together with 32 short papers, and 2 keynote talks, were carefully reviewed and selected from 125 submissions. The papers discuss a range of topics including: temporal, spatial and high dimensional databases; semantic Web and ontologies; modeling, linked open data; NoSQLm NewSQL, data integration; uncertain data and inconsistency tolerance; database system architecture; data mining, query processing and optimization; indexing and decision support systems; modeling, extraction, social networks; knowledge management and consistency; mobility, privacy and security; data streams, Web services; distributed, parallel and cloud databases; information retrieval; XML and semi-structured data; data partitioning, indexing; data mining, applications;

WWW and databases; data management algorithms. These volumes also include accepted papers of the 8th International Conference on Data Management in Cloud, Grid and P2P Systems, Globe 2015, held in Valencia, Spain, September 2, 2015. The 8 full papers presented were carefully reviewed and selected from 13 submissions. The papers discuss a range of topics including: MapReduce framework: load balancing, optimization and classification; security, data privacy and consistency; query rewriting and streaming.

Distributed systems intertwine with our everyday lives. The benefits and current shortcomings of the underpinning technologies are experienced by a wide range of people and their smart devices. With the rise of large-scale IoT and similar distributed systems, cloud bursting technologies, and partial outsourcing solutions, private entities are encouraged to increase their efficiency and offer unparalleled availability and reliability to their users. The Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing is a vital reference source that provides valuable insight into current and emergent research occurring within the field of distributed computing. It also presents architectures and service frameworks to achieve highly integrated distributed systems and solutions to integration and efficient management challenges faced by current and future distributed systems. Highlighting a range of topics such as data sharing, wireless sensor networks, and scalability, this multi-volume book is ideally designed for system administrators, integrators, designers, developers, researchers, academicians, and students.

This book constitutes the refereed proceedings of the 8th FIRA International Conference on Secure and Trust Computing, Data Management, and Applications, STA 2011, held in Loutraki, Greece, in June 2011. STA 2011 is the first conference after the merger of the successful SSDU, UbiSec, and TRUST symposium series previously held from 2006 until 2010 in various locations. The 29 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers address various theories and practical applications of secure and trust computing and data management in future environments.

This book includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Industrial Electronics, Technology, Automation, Telecommunications and Networking. The book includes selected papers from the conference proceedings of the International Conference on Industrial Electronics, Technology, Automation (IETA 2006) and International Conference on Telecommunications and Networking (TeNe 06).

For more than the last three decades, the security of software systems has been an important area of computer science, yet it is a rather recent general recognition that technologies for software security are highly needed. This book assesses the state of the art in software and systems security by presenting a carefully arranged selection of revised invited and reviewed papers. It covers basic aspects and recently developed topics such as security of pervasive computing, peer-to-peer systems and autonomous distributed agents, secure software circulation, compilers for fail-safe C language, construction of secure mail systems, type systems and multiset rewriting systems for security protocols,

and privacy issues as well.
This timely volume provides a review of the state-of-the-art frameworks and methodologies for connecting diverse objects and devices according to the vision for an Internet of Things (IoT). A specific focus is placed on the communication, security, and privacy aspects of device connectivity in distributed environments. Insights and case studies are provided by an authoritative selection of contributors of international repute into the latest research advances and practical approaches with respect to the connectivity of heterogeneous smart and sensory devices. Topics and features: Examines aspects of device connectivity within the IoT Presents a resource-based architecture for IoT, and proposes a resource management framework for corporate device clouds Reviews integration approaches for the IoT environment, and discusses performance optimization of intelligent home networks Introduces a novel solution for interoperable data management in multi-clouds, and suggests an approach that addresses the debate over network neutrality in the IoT Describes issues of data security, privacy, access control, and authentication in the distributed IoT environment Reviews the evolution of VANETs in relation to the Internet of Vehicles, and provides a perspective on developing smart sustainable cities This invaluable text/reference will be of great benefit to a broad audience, from students and researchers interested in the IoT vision, to practicing communication engineers and network security specialists.

This book provides the state-of-the-art development on security and privacy for fog/edge computing, together with their system architectural support and applications. This book is organized into five parts with a total of 15 chapters. Each area corresponds to an important snapshot. The first part of this book presents an overview of fog/edge computing, focusing on its relationship with cloud technology and the future with the use of 5G communication. Several applications of edge computing are discussed. The second part of this book considers several security issues in fog/edge computing, including the secure storage and search services, collaborative intrusion detection method on IoT-fog computing, and the feasibility of deploying Byzantine agreement protocols in untrusted environments. The third part of this book studies the privacy issues in fog/edge computing. It first investigates the unique privacy challenges in fog/edge computing, and then discusses a privacy-preserving framework for the edge-based video analysis, a popular machine learning application on fog/edge. This book also covers the security architectural design of fog/edge computing, including a comprehensive overview of vulnerabilities in fog/edge computing within multiple architectural levels, the security and intelligent management, the implementation of network-function-virtualization-enabled multicasting in part four. It explains how to use the blockchain to realize security services. The last part of this book surveys applications of fog/edge computing, including the fog/edge computing in Industrial IoT, edge-based augmented reality, data streaming in fog/edge computing, and the blockchain-based application for edge-IoT. This book is designed for academics, researchers and government officials, working in the field of fog/edge computing and cloud computing. Practitioners, and business organizations (e.g., executives, system designers, and marketing professionals), who conduct teach-

ing, research, decision making, and designing fog/edge technology will also benefit from this book The content of this book will be particularly useful for advanced-level students studying computer science, computer technology, and information systems, but also applies to students in business, education, and economics, who would benefit from the information, models, and case studies therein.

This book constitutes the refereed proceedings of the 6th Annual Smart City 360° Summit. Due to COVID-19 pandemic the conference was held virtually. The volume combines selected papers of seven conferences, namely AISCOVID 2020 - International Conference on AI-assisted Solutions for COVID-19 and Biomedical Applications in Smart-Cities; EdgeIoT 2020 - International Conference on Intelligent Edge Processing in the IoT Era; IC4S 2020 - International Conference on Cognitive Computing and Cyber Physical Systems; CiCom 2020 - International Conference on Computational Intelligence and Communications; S-Cube 2020 - International Conference on Sensor Systems and Software; SmartGov 2020 - International Conference on Smart Governance for Sustainable Smart Cities; and finnally, the Urb-IOT 2020 -International Conference on IoT in Urban Space.

Through the rise of big data and the internet of things, terrorist organizations have been freed from geographic and logistical confines and now have more power than ever before to strike the average citizen directly at home. This, coupled with the inherently asymmetrical nature of cyberwarfare, which grants great advantage to the attacker, has created an unprecedented national security risk that both governments and their citizens are woefully ill-prepared to face. Examining cyber warfare and terrorism through a critical and academic perspective can lead to a better understanding of its foundations and implications. Cyber Warfare and Terrorism: Concepts, Methodologies, Tools, and Applications is an essential reference for the latest research on the utilization of online tools by terrorist organizations to communicate with and recruit potential extremists and examines effective countermeasures employed by law enforcement agencies to defend against such threats. Highlighting a range of topics such as cyber threats, digital intelligence, and counterterrorism, this multi-volume book is ideally designed for law enforcement, government officials, lawmakers, security analysts, IT specialists, software developers, intelligence and security practitioners, students, educators, and researchers.

To overcome the constraints of 5G for supporting new challenges, 6G wireless systems must be developed with new and attractive features. These systems are expected to increase performance and maximize quality of service several folds more than 5G along with other exciting features. However, 6G is still in its infancy and must be explored. The Handbook of Research on Design, Deployment, Automation, and Testing Strategies for 6G Mobile Core Network discusses the technological feats used in the new 6G wireless systems. It discusses the design, automation, and uses for industry as well as testing strategies. Covering topics such as 6G architecture, smart healthcare, and wireless communication, this major reference work is an excellent resource for computer scientists, engineers, students and professors in higher education, researchers, and academicians.

From cloud computing to big data to mobile technologies, there is a vast supply

of information being mined and collected. With an abundant amount of information being accessed, stored, and saved, basic controls are needed to protect and prevent security incidents as well as ensure business continuity. Applications of Security, Mobile, Analytic, and Cloud (SMAC) Technologies for Effective Information Processing and Management is a vital resource that discusses various research findings and innovations in the areas of big data analytics, mobile communication and mobile applications, distributed systems, and information security. With a focus on big data, the internet of things (IoT), mobile technologies, cloud computing, and information security, this book proves a vital resource for computer engineers, IT specialists, software developers, researchers, and graduate-level students seeking current research on SMAC technologies and information security management systems.

This book constitutes the proceedings of the 16th IFIP International Conference on Distributed Applications and Interoperable Systems, DAIS 2016, held in Heraklion, Crete, Greece, in June 2016. The 13 papers presented together with 3 short papers in this volume were carefully reviewed and selected from 34 submissions. They represent a compelling sample of the state-of-the-art in the area of distributed applications and interoperable systems. Cloud computing and services received a large emphasis this year.

This book provides information on data--driven infrastructure design, analytical approaches, and technological solutions with case studies for smart cities. This book aims to attract works on multidisciplinary research spanning across the computer science and engineering, environmental studies, services, urban planning and development, social sciences and industrial engineering on technologies, case studies, novel approaches, and visionary ideas related to data-driven innovative solutions and big data-powered applications to cope with the real world challenges for building smart cities.

There exists a need for sharing user health data, especially with institutes for research purposes, in a secure fashion. This is especially true in the case of a system that includes a third party storage service, such as cloud computing, which limits the control of the data owner. The use of encryption for secure data storage continues to evolve to meet the need for flexible and fine-grained access control. This evolution has led to the development of Attribute Based Encryption (ABE). The use of ABE to ensure the security and privacy of health data has been explored. This thesis presents an ABE based framework which allows for the secure outsourcing of the more computationally intensive processes for data decryption to the cloud servers. This reduces the time needed for decryption to occur at the user end and reduces the amount of computational power needed by users to access data.

This book presents state-of-the-art research on security and privacy- preserving for IoT and 5G networks and applications. The accepted book chapters covered many themes, including traceability and tamper detection in IoT enabled waste management networks, secure Healthcare IoT Systems, data transfer accomplished by trustworthy nodes in cognitive radio, DDoS Attack Detection in Vehicular Ad-hoc Network (VANET) for 5G Networks, Mobile Edge-Cloud Computing, biometric authentication systems for IoT applications, and many other applications It aspires to provide a relevant ref-

erence for students, researchers, engineers, and professionals working in this particular area or those interested in grasping its diverse facets and exploring the latest advances on security and privacy- preserving for IoT and 5G networks.

The two volumes LNCS 11982 and 11983 constitute the proceedings of the 11th International Symposium on Cyberspace Safety and Security, CSS 2019, held in Guangzhou, China, in December 2019. The 61 full papers and 40 short papers presented were carefully reviewed and selected from 235 submissions. The papers cover a broad range of topics in the field of cyberspace safety and security, such as authentication, access control, availability, integrity, privacy, confidentiality, dependability and sustainability issues of cyberspace. They are organized in the following topical sections: network security; system security; information security; privacy preservation; machine learning and security; cyberspace safety; big data and security; and cloud and security;

This book constitutes the proceedings of the 22nd International Conference on Information Security, ISC 2019, held in New York City, NY, USA, in September 2019. The 23 full papers presented in this volume were carefully reviewed and selected from 86 submissions. The papers were organized in topical sections named: Attacks and Cryptanalysis; Crypto I: Secure Computation and Storage; Machine Learning and Security; Crypto II: Zero-Knowledge Proofs; Defenses; Web Security; Side Channels; Malware Analysis; Crypto III: Signatures and Authentication.

This book constitutes the refereed proceedings of the 21th International Conference on Information and Communications Security, ICICS 2019, held in Beijing, China, in December 2019. The 47 revised full papers were carefully selected from 199 submissions. The papers are organized in topics on malware analysis and detection, IoT and CPS security enterprise network security, software security, system security, authentication, applied cryptograph internet security, machine learning security, machine learning privacy, Web security, steganography and steganalysis.

This book constitutes the proceedings of the 24th Annual IFIP WG 11.3 Working Conference on Data and Applications Security, held in Rome Italy in June 2010. The 18 full and 11 short papers presented in this volume were carefully reviewed and selected from 61 submissions. The topics covered are query and data privacy; data protection; access control; data confidentiality and query verification; policy definition and enforcement; and trust and identity management.

An increasing reliance on the Internet and mobile communication has deprived us of our usual means of assessing another party’s trustworthiness. This is increasingly forcing us to rely on control. Yet the notion of trust and trustworthiness is essential to the continued development of a technology-enabled society. Trust, Complexity and Control offers readers a single, consistent explanation of how the sociological concept of ‘trust’ can be applied to a broad spectrum of technology-related areas; convergent communication, automated agents, digital security, semantic web, artificial intelligence, e-commerce, e-government, privacy etc. It presents a model of confidence in which trust and control are driven and limited by complexity in one explanatory framework and demonstrates how that framework can be applied to

different research and application areas. Starting with the individual's assessment of trust, the book shows the reader how application of the framework can clarify misunderstandings and offer solutions to complex problems. The uniqueness of Trust, Complexity and Control is its interdisciplinary treatment of a variety of diverse areas using a single framework. Sections featured include: Trust and distrust in the digital world. The impact of convergent communication and networks on trust. Trust, economy and commerce. Trust-enhancing technologies. Trust, Complexity and Control is an invaluable source of reference for both researchers and practitioners within the Trust community. It will also be of benefit to students and lecturers in the fields of information technology, social sciences and computer engineering.

This book contains selected papers presented at the 16th IFIP WG 9.2, 9.6/11.7, 11.6/SIG 9.2.2 International Summer School on Privacy and Identity Management, held online in August 2021. The 9 full papers included in this volume were carefully reviewed and selected from 23 submissions. Also included are 2 invited keynote papers and 3 tutorial/workshop summary papers. As in previous years, one of the goals of the IFIP Summer School was to encourage the publication of thorough research papers by students and emerging scholars. The papers combine interdisciplinary approaches to bring together a host of perspectives, such as technical, legal, regulatory, socio-economic, social or societal, political, ethical, anthropological, philosophical, or psychological perspectives.

An advanced look at smart technology to promote the independence of the elderly and disabled Ongoing research and advancements in technology are essential for the continuing independence of elderly and disabled persons. The Engineering Handbook of Smart Technology for Aging, Disability, and Independence provides a thorough analysis of these technologies and the needs of the elderly and disabled, including a breakdown of demographics, government spending, growth rate, and much more. Each chapter is written by an expert in his or her respective field, and gives readers unparalleled insight into the research and developments in a multitude of important areas, including: User-need analyses, classifications, and policies Assistive devices and systems for people with motor disabilities Assistive devices and systems for people with visual and hearing impairments Human-machine interaction and virtual reality Assistive robotics Technology for user mobility and object manipulation Smart homes as assistant environments A discussion of emerging standards and guidelines to build accessible devices, tools, and environments This book is an indispensable resource for researchers and professionals in computer science, rehabilitation science, and clinical engineering. It also serves as a valuable textbook for graduate students in the aforementioned fields.

The book serves as a connecting medium between various domains and Blockchain technology, discussing and embracing how Blockchain technology is transforming all the major sectors of the society. The book facilitates sharing of information, case studies, theoretical and practical knowledge required for Blockchain transformations in various sectors. The book covers different areas that provide the foundational knowledge and comprehensive information about the transformations by Blockchain technology in the fields of business, healthcare, finance, education, supply-chain,

sustainability and governance. The book pertains to students, academics, researchers, professionals, and policy makers working in the area of Blockchain technology and related fields.

This book constitutes the refereed conference proceedings of the 2nd International Workshop on Cryprocurrencies and Blockchain Technology, CBT 2018, and the 13thInternational Workshop on Data Privacy Management, DPM 2018, on conjunction with the 23nd European Symposium on Research in Computer Security, ESORICS 2018, held in Barcelona, Spain, in September 2018. From the CBT Workshop 7 full and 8 short papers out of 39 submissions are included. The selected papers cover aspects of identity management, smart contracts, soft- and hard-forks, proof-of-works and proof of stake as well as on network layer aspects and the application of blockchain technology for secure connect event ticketing. The DPM Workshop received 36 submissions from which 11 full and 5 short papers were selected for presentation. The papers focus on challenging problems such as translation of high-level buiness goals into system level privacy policies, administration of sensitive identifiers, data integration and privacy engineering.

The book compiles technologies for enhancing and provisioning security, privacy and trust in cloud systems based on Quality of Service requirements. It is a timely contribution to a field that is gaining considerable research interest, momentum, and provides a comprehensive coverage of technologies related to cloud security, privacy and trust. In particular, the book includes - Cloud security fundamentals and related technologies to-date, with a comprehensive coverage of evolution, current landscape, and future roadmap. - A smooth organization with introductory, advanced and specialist content, i.e. from basics of security, privacy and trust in cloud systems, to advanced cartographic techniques, case studies covering both social and technological aspects, and advanced platforms. - Case studies written by professionals and/or industrial researchers. - Inclusion of a section on Cloud security and eGovernance tutorial that can be used for knowledge transfer and teaching purpose. - Identification of open research issues to help practitioners and researchers. The book is a timely topic for readers, including practicing engineers and academics, in the domains related to the engineering, science, and art of building networks and networked applications. Specifically, upon reading this book, audiences will perceive the following benefits: 1. Learn the state-of-the-art in research and development on cloud security, privacy and trust. 2. Obtain a future roadmap by learning open research issues. 3. Gather the background knowledge to tackle key problems, whose solutions will enhance the evolution of next--generation secure cloud systems.

This book constitutes the thoroughly refereed roceedings of the 13th International Conference on Security and Privacy in Communications Networks, SecureComm 2017, held in Niagara Falls, ON, Canada, in October 2017.The 31 revised regular papers and 15 short papers were carefully reviewed and selected from 105 submissions. The topics range from security and privacy in machine learning to differential privacy, which are currently hot research topics in cyber security research.

This book aims to present the impact of Artificial Intelligence (AI) and Big Data in healthcare for medical decision making and data analysis in myriad fields including Radiology, Radiomics, Radioge-

nomics, Oncology, Pharmacology, COVID-19 prognosis, Cardiac imaging, Neuroradiology, Psychiatry and others. This will include topics such as Artificial Intelligence of Thing (AIOT), Explainable Artificial Intelligence (XAI), Distributed learning, Blockchain of Internet of Things (BIOT), Cybersecurity, and Internet of (Medical) Things (IoTs). Healthcare providers will learn how to leverage Big Data analytics and AI as methodology for accurate analysis based on their clinical data repositories and clinical decision support. The capacity to recognize patterns and transform large amounts of data into usable information for precision medicine assists healthcare professionals in achieving these objectives. Intelligent Health has the potential to monitor patients at risk with underlying conditions and track their progress during therapy. Some of the greatest challenges in using these technologies are based on legal and ethical concerns of using medical data and adequately representing and servicing disparate patient populations. One major potential benefit of this technology is to make health systems more sustainable and standardized. Privacy and data security, establishing protocols, appropriate governance, and improving technologies will be among the crucial priorities for Digital Transformation in Healthcare.

This book constitutes the thoroughly refereed post-proceedings of the 4th International Workshop on Information Security Applications, WISA 2003, held on Jeju Island, Korea, in August 2003. The 36 revised full papers were carefully reviewed and selected from 200 submissions. The papers are organized in topical sections on network security, mobile security; intrusion detection; Internet security; secure software, hardware, and systems; e-commerce security; digital rights management; biometrics and human interfaces; public key cryptography and key management; and applied cryptography.

This book constitutes the refereed proceedings of the 10th International Conference on Information Security and Cryptology, ICISC 2007, held in Seoul, Korea, November 29-30, 2007. The papers are organized in topical sections on cryptoanalysis, access control, system security, biometrics, cryptographic protocols, hash functions, block and stream ciphers, copyright protection, smart/java cards, elliptic curve cryptosystems as well as authentication and authorization.