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Proceedings of International Conference on Computational Intelligence, Data Science and Cloud Computing - Valentina Emilia Balas 2021

This book includes selected papers presented at International Conference on Computational Intelligence, Data Science and Cloud Computing (IEM-ICDC) 2020, organized by the Department of Information Technology, Institute of Engineering & Management, Kolkata, India, during 25-27 September 2020. It presents

substantial new research findings about AI and robotics, image processing and NLP, cloud computing and big data analytics as well as in cyber security, blockchain and IoT, and various allied fields. The book serves as a reference resource for researchers and practitioners in academia and industry.

Modern Library Technologies for Data Storage, Retrieval, and Use - Wei, Chia-Hung 2013-02-28

In recent years, libraries have embraced new technologies that

organize and store a variety of digital information, such as multimedia databases, digital medical images, and content-based images. Modern Library Technologies for Data Storage, Retrieval, and Use highlights new features of digital library technology in order to educate the database community. By contributing research from case studies on the emerging technology use in libraries, this book is essential for academics and scientists interested in the efforts to understand the applications of data acquisition, retrieval and storage.

Handbook of Digital Forensics of Multimedia Data and Devices, Enhanced E-Book - Anthony T. S. Ho 2016-05-20

Digital forensics and multimedia forensics are rapidly growing disciplines whereby electronic information is extracted and interpreted for use in a court of law. These two fields are finding increasing importance in law enforcement and the investigation of cybercrime as the ubiquity of personal computing and the internet becomes ever-more apparent. Digital forensics involves investigating computer systems and digital artefacts in general, while multimedia forensics is a sub-topic of digital forensics focusing on evidence extracted from both normal computer systems and special multimedia devices, such as digital cameras. This book focuses on the interface between digital forensics and multimedia forensics, bringing two closely related fields of forensic expertise together to identify and understand the current state-of-the-art in digital forensic investigation. Both fields are expertly attended to by contributions from researchers and forensic practitioners specializing in diverse topics such as forensic

authentication, forensic triage, forensic photogrammetry, biometric forensics, multimedia device identification, and image forgery detection among many others. Key features: Brings digital and multimedia forensics together with contributions from academia, law enforcement, and the digital forensics industry for extensive coverage of all the major aspects of digital forensics of multimedia data and devices Provides comprehensive and authoritative coverage of digital forensics of multimedia data and devices Offers not only explanations of techniques but also real-world and simulated case studies to illustrate how digital and multimedia forensics techniques work Includes a companion website hosting continually updated supplementary materials ranging from extended and updated coverage of standards to best practice guides, test datasets and more case studies Triangle Mesh Watermarking and Steganography - Hang Zhou 2023-03-04 This book provides a systematic overview of watermarking and steganography methods for triangle meshes related to computer graphics and security. The significance of this research has been well recognized by the growing body of work on watermarking, steganography and steganalysis of 3D meshes. With the evolution of the CAD industry and real-world end-user applications such as virtual reality (VR) and 3D printing, 3D meshes have attracted world-wide attention. Besides, the flexible data structure of 3D geometry provides enough space to embed secret information, making it ideal for applications such as copyright protection and covert communication. Our goal of the book is to allow readers to systematically understand 3D mesh information hiding technology and its applications as a whole. The book outlines

comprehensive techniques, including handcrafted and deep learning-based techniques, digital and physical techniques in the literature and provides standard evaluation metrics for triangle meshes. The up-to-date geometrical deep learning and 3D printing-related algorithms are also covered. Offering a rich blend of ideas and algorithms, the book is up-to-date and self-contained. It is an excellent reference resource for users who are seeking 3D mesh watermarking and steganography algorithms, as well as for graduate students and researchers wanting to grasp the frontiers of triangular mesh processing on data hiding.

Progress in Computing, Analytics and Networking - Prasant Kumar Pattnaik
2018-04-10

The book focuses to foster new and original research ideas and results in three broad areas: computing, analytics, and networking with its prospective applications in the various interdisciplinary domains of engineering. This is an exciting and emerging interdisciplinary area in which a wide range of theory and methodologies are being investigated and developed to tackle complex and challenging real world problems. It also provides insights into the International Conference on Computing Analytics and Networking (ICCAN 2017) which is a premier international open forum for scientists, researchers and technocrats in academia as well as in industries from different parts of the world to present, interact, and exchange the state of art of concepts, prototypes, innovative research ideas in several diversified fields. The book includes invited keynote papers and paper presentations from both academia and industry to initiate and ignite our young minds in the meadow of momentous research and thereby enrich their existing knowledge. The book

aims at postgraduate students and researchers working in the discipline of Computer Science & Engineering. It will be also useful for the researchers working in the domain of electronics as it contains some hardware technologies and forthcoming communication technologies.

Digital Forensics and Watermarking - Xianfeng Zhao 2022-01-20

This volume constitutes the proceedings of the 20th International Workshop on Digital Forensics and Watermarking, IWDW 2021, held in Beijing, China, in November 2021. The 18 full papers in this volume were carefully reviewed and selected from 32 submissions. They are categorized in the following topical headings: Forensics and Security Analysis; Watermarking and Steganology.

Advances in Electrical and Computer Technologies - Thangaprakash Sengodan
2020-09-07

The book comprises select proceedings of the first International Conference on Advances in Electrical and Computer Technologies 2019 (ICAECT 2019). The papers presented in this book are peer reviewed and cover wide range of topics in Electrical and Computer Engineering fields. This book contains the papers presenting the latest developments in the areas of Electrical, Electronics, Communication systems and Computer Science such as smart grids, soft computing techniques in power systems, smart energy management systems, power electronics, feedback control systems, biomedical engineering, geo informative systems, grid computing, data mining, image and signal processing, video processing, computer vision, pattern recognition, cloud computing, pervasive computing, intelligent systems, artificial intelligence, neural network and fuzzy logic, broad band communication, mobile and optical communication, network

security, VLSI, embedded systems, optical networks and wireless communication. This book will be of great use to the researchers and students in the areas of Electrical and Electronics Engineering, Communication systems and Computer Science.

Information Hiding - Stefan Katzenbeisser 2016-01-01

A successor to the popular Artech House title *Information Hiding Techniques for Steganography and Digital Watermarking*, this comprehensive and up-to-date new resource gives the reader a thorough review of steganography, digital watermarking and media fingerprinting with possible applications to modern communication, and a survey of methods used to hide information in modern media. This book explores Steganography, as a means by which two or more parties may communicate using invisible or subliminal communication. "Steganalysis" is described as methods which can be used to break steganographic communication. This comprehensive resource also includes an introduction to watermarking and its methods, a means of hiding copyright data in images and discusses components of commercial multimedia applications that are subject to illegal use. This book demonstrates a working knowledge of watermarking's pros and cons, and the legal implications of watermarking and copyright issues on the Internet.

Communications and Multimedia Security - Bart De Decker 2011-10-07

This book constitutes the refereed proceedings of the 12th IFIP TC 6/TC 11 International Conference on Communications and Multimedia Security, CMS 2010, held in Ghent, Belgium, in October 2011. The 26 revised papers presented were carefully reviewed and selected from 52 submissions. The papers are

organized in topical sections on usability, architecture and framework security, mobile identity management, secure hardware platforms, biometrics, multimedia security, network security and authentication. Proceedings of First International Conference on Computing, Communications, and Cyber-Security (IC4S 2019) - Pradeep Kumar Singh 2020-04-27

This book features selected research papers presented at the First International Conference on Computing, Communications, and Cyber-Security (IC4S 2019), organized by Northwest Group of Institutions, Punjab, India, Southern Federal University, Russia, and IAC Educational Trust, India along with KEC, Ghaziabad and ITS, College Ghaziabad as an academic partner and held on 12–13 October 2019. It includes innovative work from researchers, leading innovators and professionals in the area of communication and network technologies, advanced computing technologies, data analytics and intelligent learning, the latest electrical and electronics trends, and security and privacy issues.

Information Security Practice and Experience - Xinyi Huang 2014-04-28

This book constitutes the proceedings of the 10th International Conference on Information Security Practice and Experience, ISPEC 2014, held in Fuzhou, China, in May 2014. The 36 papers presented in this volume were carefully reviewed and selected from 158 submissions. In addition the book contains 5 invited papers. The regular papers are organized in topical sections named: network security; system security; security practice; security protocols; cloud security; digital signature; encryption and key agreement and theory.

Handbook of Digital Face Manipulation

and Detection - Christian Rathgeb
2022-01-31

This open access book provides the first comprehensive collection of studies dealing with the hot topic of digital face manipulation such as DeepFakes, Face Morphing, or Reenactment. It combines the research fields of biometrics and media forensics including contributions from academia and industry. Appealing to a broad readership, introductory chapters provide a comprehensive overview of the topic, which address readers wishing to gain a brief overview of the state-of-the-art. Subsequent chapters, which delve deeper into various research challenges, are oriented towards advanced readers. Moreover, the book provides a good starting point for young researchers as well as a reference guide pointing at further literature. Hence, the primary readership is academic institutions and industry currently involved in digital face manipulation and detection. The book could easily be used as a recommended text for courses in image processing, machine learning, media forensics, biometrics, and the general security area.

Information Hiding - Stefan Katzenbeisser 2009-09-03

This book constitutes the thoroughly refereed post-workshop proceedings of the 11th International Workshop on Information Hiding, IH 2009, held in Darmstadt, Germany, in June 2009. The 19 revised full papers presented were carefully reviewed and selected from 55 submissions. The papers are organized in topical sections on steganography, steganalysis, watermarking, fingerprinting, hiding in unusual content, novel applications and forensics.

Digital Forensics and Forensic Investigations: Breakthroughs in Research and Practice - Management

Association, Information Resources
2020-04-03

As computer and internet technologies continue to advance at a fast pace, the rate of cybercrimes is increasing. Crimes employing mobile devices, data embedding/mining systems, computers, network communications, or any malware impose a huge threat to data security, while cyberbullying, cyberstalking, child pornography, and trafficking crimes are made easier through the anonymity of the internet. New developments in digital forensics tools and an understanding of current criminal activities can greatly assist in minimizing attacks on individuals, organizations, and society as a whole. **Digital Forensics and Forensic Investigations: Breakthroughs in Research and Practice** addresses current challenges and issues emerging in cyber forensics and new investigative tools and methods that can be adopted and implemented to address these issues and counter security breaches within various organizations. It also examines a variety of topics such as advanced techniques for forensic developments in computer and communication-link environments and legal perspectives including procedures for cyber investigations, standards, and policies. Highlighting a range of topics such as cybercrime, threat detection, and forensic science, this publication is an ideal reference source for security analysts, law enforcement, lawmakers, government officials, IT professionals, researchers, practitioners, academicians, and students currently investigating the up-and-coming aspects surrounding network security, computer science, and security engineering.

Digital-Forensics and Watermarking - Yun Q. Shi 2013-07-24

This book constitutes the thoroughly

refereed post-proceedings of the 11th International Workshop on Digital-Forensics and Watermarking, IWDW 2012, held in Shanghai, China, during October/November 2012. The 42 revised papers (27 oral and 15 poster papers) were carefully reviewed and selected from 70 submissions. The papers are organized in topical sections on steganography and steganalysis; watermarking and copyright protection; forensics and anti-forensics; reversible data hiding; fingerprinting and authentication; visual cryptography.

Medical Image Watermarking - Amit Kumar Singh 2017-08-11

This book presents medical image watermarking techniques and algorithms for telemedicine and other emerging applications. This book emphasizes on medical image watermarking to ensure the authenticity of transmitted medical information. It begins with an introduction of digital watermarking, important characteristics, novel applications, different watermarking attacks and standard benchmark tools. This book also covers spatial and transform domain medical image watermarking techniques and their merits and limitations. The authors have developed improved/novel watermarking techniques for telemedicine applications that offer higher robustness, better perceptual quality and increased embedding capacity and secure watermark. The suggested methods may find potential applications in the prevention of patient identity theft and health data management issues which is a growing concern in telemedicine applications. This book provides a sound platform for understanding the medical image watermarking paradigm for researchers in the field and advanced-level students. Industry professionals working in this field, as well as other emerging

applications demanding robust and secure watermarking will find this book useful as a reference.

Artificial Intelligence and Security - Xingming Sun 2019-07-18

The 4-volume set LNCS 11632 until LNCS 11635 constitutes the refereed proceedings of the 5th International Conference on Artificial Intelligence and Security, ICAIS 2019, which was held in New York, USA, in July 2019. The conference was formerly called "International Conference on Cloud Computing and Security" with the acronym ICCCS. The total of 230 full papers presented in this 4-volume proceedings was carefully reviewed and selected from 1529 submissions. The papers were organized in topical sections as follows: Part I: cloud computing; Part II: artificial intelligence; big data; and cloud computing and security; Part III: cloud computing and security; information hiding; IoT security; multimedia forensics; and encryption and cybersecurity; Part IV: encryption and cybersecurity.

Future Information Technology, Application, and Service - James (Jong Hyuk) Park 2012-06-05

This book is proceedings of the 7th FTRA International Conference on Future Information Technology (FutureTech 2012). The topics of FutureTech 2012 cover the current hot topics satisfying the world-wide ever-changing needs. The FutureTech 2012 is intended to foster the dissemination of state-of-the-art research in all future IT areas, including their models, services, and novel applications associated with their utilization. The FutureTech 2012 will provide an opportunity for academic and industry professionals to discuss the latest issues and progress in this area. In addition, the conference will publish high quality papers which are closely related to the various theories,

modeling, and practical applications in many types of future technology. The main scope of FutureTech 2012 is as follows. Hybrid Information Technology Cloud and Cluster Computing Ubiquitous Networks and Wireless Communications Multimedia Convergence Intelligent and Pervasive Applications Security and Trust Computing IT Management and Service Bioinformatics and Bio-Inspired Computing Database and Data Mining Knowledge System and Intelligent Agent Human-centric Computing and Social Networks The FutureTech is a major forum for scientists, engineers, and practitioners throughout the world to present the latest research, results, ideas, developments and applications in all areas of future technologies.

Cognitive Analytics: Concepts, Methodologies, Tools, and Applications - Management

Association, Information Resources 2020-03-06

Due to the growing use of web applications and communication devices, the use of data has increased throughout various industries, including business and healthcare. It is necessary to develop specific software programs that can analyze and interpret large amounts of data quickly in order to ensure adequate usage and predictive results. Cognitive Analytics: Concepts, Methodologies, Tools, and Applications provides emerging perspectives on the theoretical and practical aspects of data analysis tools and techniques. It also examines the incorporation of pattern management as well as decision-making and prediction processes through the use of data management and analysis. Highlighting a range of topics such as natural language processing, big data, and pattern recognition, this multi-volume book is ideally designed for information technology

professionals, software developers, data analysts, graduate-level students, researchers, computer engineers, software engineers, IT specialists, and academicians.

Digital-Forensics and Watermarking - Yun-Qing Shi 2016-03-30

This book constitutes revised selected papers from the 14th International Workshop on Digital-Forensics and Watermarking, IWDW 2015, held in Tokyo, Japan, in October 2015. The 35 papers presented in this volume were carefully reviewed and selected from 54 submissions. The contributions are organized in topical sections named: digital forensics; steganography and steganalysis; digital watermarking; reversible data hiding; and visual cryptography.

Multimedia Forensics - Husrev Taha Sencar 2022-04-02

This book is open access. Media forensics has never been more relevant to societal life. Not only media content represents an ever-increasing share of the data traveling on the net and the preferred communications means for most users, it has also become integral part of most innovative applications in the digital information ecosystem that serves various sectors of society, from the entertainment, to journalism, to politics. Undoubtedly, the advances in deep learning and computational imaging contributed significantly to this outcome. The underlying technologies that drive this trend, however, also pose a profound challenge in establishing trust in what we see, hear, and read, and make media content the preferred target of malicious attacks. In this new threat landscape powered by innovative imaging technologies and sophisticated tools, based on autoencoders and generative adversarial networks, this book fills

an important gap. It presents a comprehensive review of state-of-the-art forensics capabilities that relate to media attribution, integrity and authenticity verification, and counter forensics. Its content is developed to provide practitioners, researchers, photo and video enthusiasts, and students a holistic view of the field.

Digital Multimedia Communications - Guangtao Zhai 2023-04-10

This book constitutes the refereed proceedings of the 9th International Forum on Digital Multimedia Communication, IFTC 2022, held in Shanghai, China, December 8–9, 2022. The 40 full papers included in this book were carefully reviewed and selected from 112 submissions. They were organized in topical sections as follows: Computer Vision; Image Analysis; Quality Assessment; Video Processing; Machine Learning; and Big data.

Digital Watermarking - Hyoung-Joong Kim 2009-09-30

This book constitutes the thoroughly refereed post-conference proceedings of the 7th International Workshop on Digital Watermarking, IWDW 2008, held in Busan, Korea, in November 2008. The 36 regular papers included in the volume were carefully reviewed and selected from 62 submissions. Areas of interest to the conference are mathematical modeling of embedding and detection; information theoretic, stochastic aspects of data hiding; security issues, including attacks and counter-attacks; combination of data hiding and cryptography; optimum watermark detection and reliable recovery; estimation of watermark capacity; channel coding techniques for watermarking; large-scale experimental tests and benchmarking; new statistical and perceptual models of content; reversible data hiding; data hiding in special media; data hiding and authentication;

steganography and steganalysis; data forensics; copyright protection, DRM, and forensic watermarking; and visual cryptography.

Trust, Privacy and Security in Digital Business - Steven Furnell 2018-08-20

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 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. *Proceedings of the 9th International Conference on Computer Engineering and Networks* - Qi Liu 2020-07-01

This book gathers papers presented at the 9th International Conference on Computer Engineering and Networks (CENet2019), held in Changsha, China, on October 18–20, 2019. It examines innovations in the fields of computer engineering and networking and explores important, state-of-the-art developments in areas such as Information Security, Information Hiding and Cryptography, Cyber Security, and Intelligent Computing and Applications. The book also covers emerging topics in computer engineering and networking, along with their applications, discusses how to improve productivity by using the latest advanced technologies, and examines innovation in the fields of computer engineering and networking, particularly in intelligent computing and security.

Digital Forensics and Cyber Crime - Pavel Gladyshev 2012-11-28

This book contains a selection of thoroughly refereed and revised papers from the Third International

ICST Conference on Digital Forensics and Cyber Crime, ICDF2C 2011, held October 26-28 in Dublin, Ireland. The field of digital forensics is becoming increasingly important for law enforcement, network security, and information assurance. It is a multidisciplinary area that encompasses a number of fields, including law, computer science, finance, networking, data mining, and criminal justice. The 24 papers in this volume cover a variety of topics ranging from tactics of cyber crime investigations to digital forensic education, network forensics, and the use of formal methods in digital investigations. There is a large section addressing forensics of mobile digital devices.

Illumination of Artificial Intelligence in Cybersecurity and Forensics - Sanjay Misra 2022-02-08

This book covers a variety of topics that span from industry to academics: hybrid AI model for IDS in IoT, intelligent authentication framework for IoMT mobile devices for extracting bioelectrical signals, security audit in terms of vulnerability analysis to protect the electronic medical records in healthcare system using AI, classification using CNN a multi-face recognition attendance system with anti-spoofing capability, challenges in face morphing attack detection, a dimensionality reduction and feature-level fusion technique for morphing attack detection (MAD) systems, findings and discussion on AI-assisted forensics, challenges and open issues in the application of AI in forensics, a terrorist computational model that uses Baum-Welch optimization to improve the intelligence and predictive accuracy of the activities of criminal elements, a novel method for detecting security violations in IDSs, graphical-based city block

distance algorithm method for E-payment systems, image encryption, and AI methods in ransomware mitigation and detection. It assists the reader in exploring new research areas, wherein AI can be applied to offer solutions through the contribution from researchers and academia.

Digital Forensics and Cyber Crime - Sanjay Goel 2021-02-06

This book constitutes the refereed proceedings of the 11th International Conference on Digital Forensics and Cyber Crime, ICDF2C 2020, held in Boston, MA, in October 2020. Due to COVID-19 pandemic the conference was held virtually. The 11 reviewed full papers and 4 short papers were selected from 35 submissions and are grouped in topical sections on digital forensics; cyber-physical system Forensics; event reconstruction in digital forensics; emerging topics in forensics; cybersecurity and digital forensics.

Progress in Artificial Intelligence and Pattern Recognition - Yanio Hernández Heredia 2021-11-03

This book constitutes the refereed proceedings of the 7th International Workshop on Artificial Intelligence and Pattern Recognition, IWAIPR 2021, held in Havana, Cuba, in October 2021. The 42 full papers presented were carefully reviewed and selected from 73 submissions. The papers promote and disseminate ongoing research on mathematical methods and computing techniques for artificial intelligence and pattern recognition, in particular in bioinformatics, cognitive and humanoid vision, computer vision, image analysis and intelligent data analysis.

Multimedia Security, Volume 1 - William Puech 2022-03-08

Today, more than 80% of the data transmitted over networks and archived on our computers, tablets, cell phones or clouds is multimedia

data - images, videos, audio, 3D data. The applications of this data range from video games to healthcare, and include computer-aided design, video surveillance and biometrics. It is becoming increasingly urgent to secure this data, not only during transmission and archiving, but also during its retrieval and use. Indeed, in today's "all-digital" world, it is becoming ever-easier to copy data, view it unrightfully, steal it or falsify it. Multimedia Security 1 analyzes the issues of the authentication of multimedia data, code and the embedding of hidden data, both from the point of view of defense and attack. Regarding the embedding of hidden data, it also covers invisibility, color, tracing and 3D data, as well as the detection of hidden messages in an image by steganalysis.

Digital Forensics and Watermarking - Chang D. Yoo 2019-01-31

This book constitutes the refereed proceedings of the 17th International Workshop on Digital Forensics and Watermarking, IWDW 2018, held on Jeju Island, Korea, in October 2018. The 25 papers presented in this volume were carefully reviewed and selected from 43 submissions. The contributions are covering the following topics: deep neural networks for digital forensics; steganalysis and identification; watermarking; reversible data hiding; steganographic algorithms; identification and security; deep generative models for forgery and its detection.

Lossless Information Hiding in Images - Zhe-Ming Lu 2016-11-14

Lossless Information Hiding in Images introduces many state-of-the-art lossless hiding schemes, most of which come from the authors' publications in the past five years. After reading this book, readers will be able to immediately grasp the

status, the typical algorithms, and the trend of the field of lossless information hiding. Lossless information hiding is a technique that enables images to be authenticated and then restored to their original forms by removing the watermark and replacing overridden images. This book focuses on the lossless information hiding in our most popular media, images, classifying them in three categories, i.e., spatial domain based, transform domain based, and compressed domain based. Furthermore, the compressed domain based methods are classified into VQ based, BTC based, and JPEG/JPEG2000 based. Focuses specifically on lossless information hiding for images Covers the most common visual medium, images, and the most common compression schemes, JPEG and JPEG 2000 Includes recent state-of-the-art techniques in the field of lossless image watermarking Presents many lossless hiding schemes, most of which come from the authors' publications in the past five years

Cloud Computing and Security - Xingming Sun 2018-09-12

This six volume set LNCS 11063 – 11068 constitutes the thoroughly refereed conference proceedings of the 4th International Conference on Cloud Computing and Security, ICCCS 2018, held in Haikou, China, in June 2018. The 386 full papers of these six volumes were carefully reviewed and selected from 1743 submissions. The papers cover ideas and achievements in the theory and practice of all areas of inventive systems which includes control, artificial intelligence, automation systems, computing systems, electrical and informative systems. The six volumes are arranged according to the subject areas as follows: cloud computing, cloud security, encryption, information hiding, IoT security, multimedia

forensics

Proceedings of the Tenth International Network Conference (INC 2014) - Paul Dowland 2014

This book contains the proceedings of the Tenth International Network Conference (INC 2014), which was held in Plymouth, UK, in July 2014. A total of 13 papers were accepted for inclusion in the conference (with a further three papers included in these proceedings from the Ninth International Workshop on Digital Forensics and Incident Analysis). The main topics of the book include: Network Technologies; Mobile and Wireless Networking; Security and Privacy; Applications and Impacts. The papers address state-of-the-art research and applications of network technology, arising from both the academic and industrial domains. These proceedings should consequently be of interest to network practitioners, researchers, academics, and technical managers involved in the design, development and use of network systems.

Computational Science and Its Applications – ICCSA 2022 - Osvaldo Gervasi 2022-07-14

The eight-volume set LNCS 13375 – 13382 constitutes the proceedings of the 22nd International Conference on Computational Science and Its Applications, ICCSA 2022, which was held in Malaga, Spain during July 4 – 7, 2022. The first two volumes contain the proceedings from ICCSA 2022, which are the 57 full and 24 short papers presented in these books were carefully reviewed and selected from 279 submissions. The other six volumes present the workshop proceedings, containing 285 papers out of 815 submissions. These six volumes includes the proceedings of the following workshops: □ Advances in Artificial Intelligence Learning Technologies: Blended Learning, STEM, Computational Thinking and Coding

(AAILT 2022); Workshop on Advancements in Applied Machine-learning and Data Analytics (AAMDA 2022); Advances in information Systems and Technologies for Emergency management, risk assessment and mitigation based on the Resilience (ASTER 2022); Advances in Web Based Learning (AWBL 2022); Blockchain and Distributed Ledgers: Technologies and Applications (BDLTA 2022); Bio and Neuro inspired Computing and Applications (BIONCA 2022); Configurational Analysis For Cities (CA Cities 2022); Computational and Applied Mathematics (CAM 2022), Computational and Applied Statistics (CAS 2022); Computational Mathematics, Statistics and Information Management (CMSIM); Computational Optimization and Applications (COA 2022); Computational Astrochemistry (CompAstro 2022); Computational methods for porous geomaterials (CompPor 2022); Computational Approaches for Smart, Conscious Cities (CASCC 2022); Cities, Technologies and Planning (CTP 2022); Digital Sustainability and Circular Economy (DiSCE 2022); Econometrics and Multidimensional Evaluation in Urban Environment (EMEUE 2022); Ethical AI applications for a human-centered cyber society (EthicAI 2022); Future Computing System Technologies and Applications (FiSTA 2022); Geographical Computing and Remote Sensing for Archaeology (GCRSArcheo 2022); Geodesign in Decision Making: meta planning and collaborative design for sustainable and inclusive development (GDM 2022); Geomatics in Agriculture and Forestry: new advances and perspectives (GeoForAgr 2022); Geographical Analysis, Urban Modeling, Spatial Statistics (Geog-An-Mod 2022); Geomatics for Resource Monitoring and Management (GRMM 2022); International Workshop on

Information and Knowledge in the Internet of Things (IKIT 2022); 13th International Symposium on Software Quality (ISSQ 2022); Land Use monitoring for Sustainability (LUMS 2022); Machine Learning for Space and Earth Observation Data (MALSEOD 2022); Building multi-dimensional models for assessing complex environmental systems (MES 2022); Models and indicators for assessing and measuring the urban settlement development in the view of ZERO net land take by 2050 (MOVEto0 2022); Modelling Post-Covid cities (MPCC 2022); Ecosystem Services: nature's contribution to people in practice. Assessment frameworks, models, mapping, and implications (NC2P 2022); New Mobility Choices For Sustainable and Alternative Scenarios (NEMOB 2022); 2nd Workshop on Privacy in the Cloud/Edge/IoT World (PCEIoT 2022); Psycho-Social Analysis of Sustainable Mobility in The Pre- and Post-Pandemic Phase (PSYCHE 2022); Processes, methods and tools towards RESilient cities and cultural heritage prone to SOD and ROD disasters (RES 2022); Scientific Computing Infrastructure (SCI 2022); Socio-Economic and Environmental Models for Land Use Management (SEMLUM 2022); 14th International Symposium on Software Engineering Processes and Applications (SEPA 2022); Ports of the future - smartness and sustainability (SmartPorts 2022); Smart Tourism (SmartTourism 2022); Sustainability Performance Assessment: models, approaches and applications toward interdisciplinary and integrated solutions (SPA 2022); Specifics of smart cities development in Europe (SPEED 2022); Smart and Sustainable Island Communities (SSIC 2022); Theoretical and Computational Chemistry and its Applications (TCCMA 2022); Transport Infrastructures for Smart Cities (TISC 2022); 14th

International Workshop on Tools and Techniques in Software Development Process (TTSDP 2022); International Workshop on Urban Form Studies (UForm 2022); Urban Regeneration: Innovative Tools and Evaluation Model (URITEM 2022); International Workshop on Urban Space and Mobilities (USAM 2022); Virtual and Augmented Reality and Applications (VRA 2022); Advanced and Computational Methods for Earth Science Applications (WACM4ES 2022); Advanced Mathematics and Computing Methods in Complex Computational Systems (WAMCM 2022).

Digital Forensics and Watermarking - Yun Qing Shi 2012-07-16

This book constitutes the thoroughly refereed post-conference proceedings of the 10th International Workshop on Digital-forensics and Watermarking (IWDW 2011) held in Atlantic City, NJ, USA, during October 23-26, 2011. The 37 revised full papers presented were carefully selected from 59 submissions. Conference papers are organized in 6 technical sessions, covering the topics of steganography and steganalysis, watermarking, visual cryptography, forensics, anti-forensics, fingerprinting, privacy and security.

Information Hiding - Kaushal Solanki 2008-10-15

It is our great pleasure to present this volume of the proceedings of the 10 edition of Information Hiding (IH 2008). The conference was held in Santa Barbara - the American Riviera, California, USA, during May 19-21, 2008. It was organized by three Santa Barbarans on fire, from both industry (Mayachitra) and academia (UCSB). Over the years, Information Hiding (IH) has established itself as a premier forum for presenting research covering various aspects of information hiding. Continuing the tradition, this year, we provide a balanced program including topics such as

anonymity and privacy, forensics, steganography, watermarking, fingerprinting, other hiding domains, and novel applications. We received a total of 64 papers from all over the globe, and would like to take this opportunity to thank all the authors who submitted their paper to IH 2008 and thus contributed to the consolidation of the reputation of the conference. The papers were refereed by at least three reviewers who provided detailed comments, which was followed by discussion amongst the Program Committee members. Only 25 papers were selected for presentation. This rigorous review process will certainly strengthen Information Hiding's position as the top forum of our community.

Digital Watermarking - Hyoung Joong Kim 2009-09-29

This book constitutes the thoroughly refereed post-conference proceedings of the 7th International Workshop on Digital Watermarking, IWDW 2008, held in Busan, Korea, in November 2008. The 36 regular papers included in the volume were carefully reviewed and selected from 62 submissions. Areas of interest to the conference are mathematical modeling of embedding and detection; information theoretic, stochastic aspects of data hiding; security issues, including attacks and counter-attacks; combination of data hiding and cryptography; optimum watermark detection and reliable recovery; estimation of watermark capacity; channel coding techniques for watermarking; large-scale experimental tests and benchmarking; new statistical and perceptual models of content; reversible data hiding; data hiding in special media; data hiding and authentication; steganography and steganalysis; data forensics; copyright protection, DRM, and forensic watermarking; and visual cryptography.

Emerging Digital Forensics Applications for Crime Detection, Prevention, and Security - Chang-Tsun Li 2013

The revolutionary way in which modern technologies have enabled us to exchange information with ease has led to the emergence of interdisciplinary research in digital forensics and investigations, which aims to combat the abuses of computer technologies. *Emerging Digital Forensics Applications for Crime Detection, Prevention, and Security* presents various digital crime and forensic disciplines that use electronic devices and software for crime prevention and detection. This book provides theoretical and empirical research articles and case studies for a broad range of academic readers as well as professionals, industry consultants, and practitioners involved in the use, design, and development of techniques related to digital forensics and investigation.

Digital Watermarking - Mohammad Ali Nematollahi 2016-08-08

This book presents the state-of-the-arts application of digital watermarking in audio, speech, image, video, 3D mesh graph, text, software, natural language, ontology, network stream, relational database, XML, and hardware IPs. It also presents new and recent algorithms in digital watermarking for copyright protection and discusses future trends in the field. Today, the illegal manipulation of genuine digital objects and products represents a considerable problem in the digital world. Offering an effective solution, digital watermarking can be applied to protect intellectual property, as well as fingerprinting, enhance the security and proof-of-authentication through unsecured channels.