Access Free Surreptitious Software Obfuscation Watermarking And Tamperproofing For Software Protection Jasvir Nagra Pdf For Free

Surreptitious Software **Digital Forensics and Watermarking Software Engineering Digital Watermarking Advances in Cryptology – CRYPTO 2017** *New Trends in Intelligent Software Methodologies, Tools and Techniques Algebraic Methodology and Software Technology Information Hiding* Software Technologies for Embedded and Ubiquitous Systems Intelligence and Security Informatics **Digital Watermarking Hardware Protection through Obfuscation Intelligence and Security Informatics** *Digital Watermarking* Handbook on Securing Cyber-Physical Critical Infrastructure **Detection of Intrusions and Malware, and Vulnerability Assessment Verification, Model Checking, and Abstract Interpretation Computer Network Security** Information Security Applications Railway Engineering Design & Operation *Intelligent Computing Theory* Handbook of Research on Advancing Cybersecurity for Digital Transformation Paradigms in Cryptology – Mycrypt 2016. Malicious and Exploratory Cryptology **Trust, Privacy and Security in Digital Business Information Security Static Analysis Foundations and Practice of Security** *Cyber Threat Intelligence* **Logic-Based Program Synthesis and Transformation** *Algorithms and Architectures for Parallel Processing* **Advances in Cryptology – EUROCRYPT 2004** *Network and System Security* **Innovative Mobile and Internet Services in Ubiquitous Computing Digital Rights Management** *Innovations and Advanced Techniques in Computer and Information Sciences and Engineering Practical Binary Analysis* **Intellectual Property Protection in VLSI Designs Advances in Computing and Information Technology Information and Communications Security** Enterprise Security

This book includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computer Science, Computer Engineering and Information Sciences. The book presents selected papers from the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2006). All aspects of the conference were managed on-line. This volume features the refereed proceedings of the 4th International Conference on Trust and Privacy in Digital Business. The 28 papers were all carefully reviewed. They cover privacy and identity management, security and risk management, security requirements and development, privacy enhancing technologies and privacy management, access control models, trust and reputation, security protocols, and security and privacy in mobile environments. This book constitutes the thoroughly refereed post-conference proceedings of the 24th International Symposium on Logic-Based Program Synthesis and Transformation, LOPSTR 2014, held in Canterbury, UK, in September 2014. The 18 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 34 submissions. The aim of the LOPSTR series is to stimulate and promote international research and collaboration on logic-based program development. The papers are organized along a set of thematic tracks: program analysis and transformation, constraint handling rules, termination analysis, security, program testing and verification, program synthesis, program derivation, semantic issues in logic programming and program transformation and optimization. Stop manually analyzing binary! Practical Binary Analysis is the first book of its kind to present advanced binary analysis topics, such as binary instrumentation, dynamic taint analysis, and symbolic execution, in an accessible way. As malware increasingly obfuscates itself and applies anti-analysis techniques to thwart our analysis, we need more sophisticated methods that allow us to raise that dark curtain designed to keep us out--binary analysis can help. The goal of all binary analysis is to determine (and possibly modify) the true properties of binary programs to understand what they really do, rather than what we think they should do. While reverse engineering and disassembly are critical first steps in many forms of binary analysis, there is much more to be learned. This hands-on guide teaches you how to tackle the fascinating but challenging topics of binary analysis and instrumentation and helps you become proficient in an area typically only mastered by a small group of expert hackers. It will take you from basic concepts to state-of-the-art methods as you dig into topics like code injection, disassembly, dynamic taint analysis, and binary instrumentation. Written for security engineers, hackers, and those with a basic working knowledge of C/C++ and x86-64, Practical Binary Analysis will teach you in-depth how binary programs work and help you acquire the tools and techniques needed to gain more control and insight into binary programs. Once you've completed an introduction to basic binary formats, you'll learn how to analyze binaries using techniques like the GNU/Linux binary analysis toolchain, disassembly, and code injection. You'll then go on to implement profiling tools with Pin and learn how to build your own dynamic taint analysis tools with libdft and symbolic execution tools using Triton. You'll learn how to: - Parse ELF and PE binaries and build a binary loader with libbfd - Use data-flow analysis techniques like program tracing, slicing, and reaching definitions analysis to reason about runtime flow of your programs - Modify ELF binaries with techniques like parasitic code injection and hex editing - Build custom disassembly tools with Capstone - Use binary instrumentation to circumvent anti-analysis tricks commonly used by malware - Apply taint analysis to detect control hijacking and data leak attacks - Use symbolic execution to build automatic exploitation tools With exercises at the end of each chapter to help solidify your skills, you'll go from understanding basic assembly to performing some of the most sophisticated binary analysis and instrumentation. Practical Binary Analysis gives you what you need to work effectively with binary programs and transform your knowledge from basic understanding to expert-level proficiency. The international conference on Advances in Computing and Information technology (ACITY 2012) provides an excellent international forum for both academics and professionals for sharing knowledge and results in theory, methodology and applications of Computer Science and Information Technology. The Second International Conference on Advances in Computing and Information technology (ACITY 2012), held in Chennai, India, during July 13-15, 2012, covered a number of topics in all major fields of Computer Science and Information Technology including: networking and communications, network security and applications, web and internet computing, ubiquitous computing, algorithms, bioinformatics, digital image processing and pattern recognition, artificial intelligence, soft computing and applications. Upon a strength review process, a number of high-quality, presenting not only innovative ideas but also a founded evaluation and a strong argumentation of the same, were selected and collected in the present proceedings, that is composed of three different volumes. This book constitutes the refereed proceedings of the IEEE International Conference on Intelligence and Security Informatics, ISI 2005, held in Atlanta, GA, USA in May 2005. The 28 revised full papers, 34 revised short papers, and 32 poster abstracts presented were carefully reviewed and selected for inclusion in the book. The papers are organized in topical sections on data and text mining, infrastructure protection and emergency response, information management and security education, deception detection and authorship analysis, monitoring and surveillance, and terrorism informatics. This book constitutes the refereed proceedings of the Pacific Asia Workshop on Intelligence and Security Informatics, PAISI 2007, held in Chengdu, China in April 2007. Coverage includes crime analysis, emergency response and surveillance, intrusion detection, network security, data and text mining, cybercrime and information access and security, intrusion detection, network security, terrorism informatics and crime analysis. This book constitutes the thoroughly refereed post-proceedings of the First International Conference on Digital Rights Management: Technology, Issues, Challenges and Systems, DRMTICS 2005, held in Sydney, Australia, in October/November 2005. Presents 26 carefully reviewed full papers organized in topical sections on assurance and authentication issues,

legal and related issues, expressing rights and management, watermarking, software issues, fingerprinting and image authentication, supporting cryptographic technology, P2P issues, implementations and architectures. This overview of the security problems in modern VLSI design provides a detailed treatment of a newly developed constraint-based protection paradigm for the protection of VLSI design IPs – from FPGA design to standard-cell placement, and from advanced CAD tools to physical design algorithms. This book constitutes the refereed post-conference proceedings of the Second International Conference on Cryptology and Malicious Security, held in Kuala Lumpur, Malaysia, December 1-2, 2016. The 26 revised full papers, two short papers and two keynotes presented were carefully reviewed and selected from 51 submissions. The papers are organized in topical sections on revisiting tradition; different paradigms; cryptofication; malicious cryptography; advances in cryptanalysis; primitives and features; cryptanalysis correspondence. This book constitutes the proceedings of the 7th International Conference on Network and System Security, NSS 2013, held in Madrid, Spain, in June 2013. The 41 full papers presented were carefully reviewed and selected from 176 submissions. The volume also includes 7 short papers and 13 industrial track papers. The paper are organized in topical sections on network security (including: modeling and evaluation; security protocols and practice; network attacks and defense) and system security (including: malware and intrusions; applications security; security algorithms and systems; cryptographic algorithms; privacy; key agreement and distribution). We are delighted to welcome the attendees of the Fourth International Wo- shop on Digital Watermarking (IWDW). Watermarking continues to generate strong academic interest. Commercialization of the technology is proceeding at a steadypace. We haveseen watermarkingadoptedfor DVD audio.Fingerpri- ing technology was successfully used to determine the source of pirated video material. Furthermore, a number of companies are using watermarking as an enabling technology for broadcast monitoring services. Watermarking of digital cinema contentis anticipated. Future applications may also come from areas- related to digital rights management. For example, the use of watermarking to enhance legacy broadcast and communication systems is now being considered. IWDW 2005 o?ers an opportunity to re?ect upon the state of the art in digital watermarking as well as discuss directions for future research and applications. This year we accepted 31 papers from 74 submissions. This 42% acceptance rate indicates our commitment to ensuring a very high quality conference. We thankthemembersoftheTechnicalProgramCommitteeformakingthisposs ible by their timely and insightful reviews. Thanks to their hard work this is the ?rst IWDW at which the ?nal proceedings are available to the participants at the time of the workshop as a Springer LNCS publication. This book provides readers with up-to-date research of emerging cyber threats and defensive mechanisms, which are timely and essential. It covers cyber threat intelligence concepts against a range of threat actors and threat tools (i.e. ransomware) in cutting-edge technologies, i.e., Internet of Things (IoT), Cloud computing and mobile devices. This book also provides the technical information on cyber-threat detection methods required for the researcher and digital forensics experts, in order to build intelligent automated systems to fight against advanced cybercrimes. The ever increasing number of cyber-attacks requires the cyber security and forensic specialists to detect, analyze and defend against the cyber threats in almost real-time, and with such a large number of attacks is not possible without deeply perusing the attack features and taking corresponding intelligent defensive actions – this in essence defines cyber threat intelligence notion. However, such intelligence would not be possible without the aid of artificial intelligence, machine learning and advanced data mining techniques to collect, analyze, and interpret cyber-attack campaigns which is covered in this book. This book will focus on cutting-edge research from both academia and industry, with a particular emphasis on providing wider knowledge of the field, novelty of approaches, combination of tools and so forth to perceive reason, learn and act on a wide range of data collected from different cyber security and forensics solutions. This book introduces the notion of cyber threat intelligence and analytics and presents different attempts in utilizing machine learning and data mining techniques to create threat feeds for a range of consumers. Moreover, this book sheds light on existing and emerging trends in the field which could pave the way for future works. The inter-disciplinary nature of this book, makes it suitable for a wide range of audiences with backgrounds in artificial intelligence, cyber security, forensics, big data and data mining, distributed systems and computer networks. This would include industry professionals, advanced-level students and researchers that work within these related fields. This book constitutes the refereed proceedings of the 19th International Conference on Information and Communications Security, ICICS 2017, held in Beijing, China, in December 2017. The 43 revised full papers and 14 short papers presented were carefully selected from 188 submissions. The papers cover topics such as Formal Analysis and Randomness Test; Signature Scheme and Key Management; Algorithms; Applied Cryptography; Attacks and Attacks Defense; Wireless Sensor Network Security; Security Applications; Malicious Code Defense and Mobile Security; IoT Security; Healthcare and Industrial Control System Security; Privacy Protection; Engineering Issues of Crypto; Cloud and E-commerce Security; Security Protocols; Network Security. This book constitutes the carefully refereed and revised selected papers of the 5th Canada-France ETS Symposium on Foundations and Practice of Security, FPS 2012, held in Montreal, QC, Canada, in October 2012. The book contains a revised version of 21 full papers, accompanied by 3 short papers. The papers were carefully reviewed and selected from 62 submissions. The papers are organized in topical section on cryptography and information theory, key management and cryptographic protocols, privacy and trust, policies and applications security, and network and adaptive security. This book introduces readers to various threats faced during design and fabrication by today’s integrated circuits (ICs) and systems. The authors discuss key issues, including illegal manufacturing of ICs or “IC Overproduction,” insertion of malicious circuits, referred as “Hardware Trojans”, which cause in-field chip/system malfunction, and reverse engineering and piracy of hardware intellectual property (IP). The authors provide a timely discussion of these threats, along with techniques for IC protection based on hardware obfuscation, which makes reverse-engineering an IC design infeasible for adversaries and untrusted parties with any reasonable amount of resources. This exhaustive study includes a review of the hardware obfuscation methods developed at each level of abstraction (RTL, gate, and layout) for conventional IC manufacturing, new forms of obfuscation for emerging integration strategies (split manufacturing, 2.5D ICs, and 3D ICs), and on-chip infrastructure needed for secure exchange of obfuscation keys- arguably the most critical element of hardware obfuscation. These are the proceedings of Eurocrypt 2004, the 23rd Annual Eurocrypt C- ference. The conference was organized by members of the IBM Zurich Research Laboratory in cooperation with IACR, the International Association for Cr- tologic Research. Theconferencereceivedarecordnumberof206submissions,outofwhichth e program committee selected 36 for presentation at the conference (three papers were withdrawn by the authors shortly after submission). These proceedings contain revised versions of the accepted papers. These revisions have not been checked for correctness, and the authors bear full responsibility for the contents of their papers. The conference program also featured two invited talks. The ?rst one was the 2004 IACR Distinguished Lecture given by Whit?eld Di?e. The second invited talk was by Ivan Damg? ard who presented “Paradigms for Multiparty Computation. ” The traditional rump session with short informal talks on recent results was chaired by Arjen Lenstra. The reviewing process was a challenging task, and many good submissions had to be rejected. Each paper was reviewed independently by at least three members of the program committee, and papers co-authored by a member of the program committee were reviewed by at least six (other) members. The individual reviewing phase was followed by profound and sometimes lively d- cussions about the papers, which contributed a lot to the quality of the ?nal selection. Extensive comments were sent to the authors in most cases. This book constitutes the refereed proceedings of the 11th International Conference on Detection of Intrusions and Malware, and Vulnerability Assessment, DIMVA 2014, held in Egham, UK, in July 2014. The 13 revised full papers presented together with one extended abstract were carefully reviewed and selected from 60 submissions. The papers are organized in topical sections on malware, mobile security, network security and host security. The three volume-set, LNCS 10401, LNCS 10402, and LNCS 10403, constitutes the refereed proceedings of the 37th Annual International Cryptology Conference, CRYPTO 2017, held in Santa Barbara, CA, USA, in August 2017. The 72 revised full papers presented were carefully reviewed and selected from 311 submissions. The papers are organized in the following topical sections: functional encryption; foundations; two-party computation; bitcoin; multiparty computation; award papers;

obfuscation; conditional disclosure of secrets; OT and ORAM; quantum; hash functions; lattices; signatures; block ciphers; authenticated encryption; public-key encryption, stream ciphers, lattice crypto; leakage and subversion; symmetric-key crypto, and real-world crypto. This book – in conjunction with the volumes LNAI 8589 and LNBI 8590 – constitutes the refereed proceedings of the 10th International Conference on Intelligent Computing, ICIC 2014, held in Taiyuan, China, in August 2014. The 92 papers of this volume were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections such as evolutionary computation and learning; swarm intelligence and optimization; machine learning; social and natural computing; neural networks; biometrics recognition; image processing; information security; virtual reality and human-computer interaction; knowledge discovery and data mining; signal processing; pattern recognition; biometric system and security for intelligent computing. 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 5th International Workshop on Digital Watermarking Secure Data Management, IWDW 2006, held in Jeju Island, Korea in November 2006. The 34 revised full papers presented together with 3 invited lectures cover both theoretical and practical issues in digital watermarking. “This book gives thorough, scholarly coverage of an area of growing importance in computer security and is a ‘must have’ for every researcher, student, and practicing professional in software protection.” —Mikhail Atallah, Distinguished Professor of Computer Science at Purdue University Theory, Techniques, and Tools for Fighting Software Piracy, Tampering, and Malicious Reverse Engineering The last decade has seen significant progress in the development of techniques for resisting software piracy and tampering. These techniques are indispensable for software developers seeking to protect vital intellectual property. Surreptitious Software is the first authoritative, comprehensive resource for researchers, developers, and students who want to understand these approaches, the level of security they afford, and the performance penalty they incur. Christian Collberg and Jasvir Nagra bring together techniques drawn from related areas of computer science, including cryptography, steganography, watermarking, software metrics, reverse engineering, and compiler optimization. Using extensive sample code, they show readers how to implement protection schemes ranging from code obfuscation and software fingerprinting to tamperproofing and birthmarking, and discuss the theoretical and practical limitations of these techniques. Coverage includes Mastering techniques that both attackers and defenders use to analyze programs Using code obfuscation to make software harder to analyze and understand Fingerprinting software to identify its author and to trace software pirates Tamperproofing software using guards that detect and respond to illegal modifications of code and data Strengthening content protection through dynamic watermarking and dynamic obfuscation Detecting code theft via software similarity analysis and birthmarking algorithms Using hardware techniques to defend software and media against piracy and tampering Detecting software tampering in distributed system Understanding the theoretical limits of code obfuscation Enterprise security is an important area since all types of organizations require secure and robust environments, platforms and services to work with people, data and computing applications. The book provides selected papers of the Second International Workshop on Enterprise Security held in Vancouver, Canada, November 30-December 3, 2016 in conjunction with CloudCom 2015. The 11 papers were selected from 24 submissions and provide a comprehensive research into various areas of enterprise security such as protection of data, privacy and rights, data ownership, trust, unauthorized access and big data ownership, studies and analysis to reduce risks imposed by data leakage, hacking and challenges of Cloud forensics. This book includes selected papers of the 6th IFIP WG 10.2 International Workshop on Software Technologies for Future Embedded and Ubiquitous Systems, SEUS 2008, held on Capri, Italy, in October 2008. The 38 revised full papers presented were carefully reviewed and selected. The papers are organized in topical sections on model-driven development; middleware; real time; quality of service and performance; applications; pervasive and mobile systems: wireless embedded systems; synthesis, verification and protection. Cybersecurity has been gaining serious attention and recently has become an important topic of concern for organizations, government institutions, and largely for people interacting with digital online systems. As many individual and organizational activities continue to grow and are conducted in the digital environment, new vulnerabilities have arisen which have led to cybersecurity threats. The nature, source, reasons, and sophistication for cyberattacks are not clearly known or understood, and many times invisible cyber attackers are never traced or can never be found. Cyberattacks can only be known once the attack and the destruction have already taken place long after the attackers have left. Cybersecurity for computer systems has increasingly become important because the government, military, corporate, financial, critical infrastructure, and medical organizations rely heavily on digital network systems, which process and store large volumes of data on computer devices that are exchanged on the internet, and they are vulnerable to “continuous” cyberattacks. As cybersecurity has become a global concern, it needs to be clearly understood, and innovative solutions are required. The Handbook of Research on Advancing Cybersecurity for Digital Transformation looks deeper into issues, problems, and innovative solutions and strategies that are linked to cybersecurity. This book will provide important knowledge that can impact the improvement of cybersecurity, which can add value in terms of innovation to solving cybersecurity threats. The chapters cover cybersecurity challenges, technologies, and solutions in the context of different industries and different types of threats. This book is ideal for cybersecurity researchers, professionals, scientists, scholars, and managers, as well as practitioners, stakeholders, researchers, academicians, and students interested in the latest advancements in cybersecurity for digital transformation. This book constitutes the thoroughly refereed post-proceedings of the7th International Workshop on Information Hiding, IH 2005, held in Barcelona, Spain in June 2005. The 28 revised full papers presented together with an invited talk were carefully selected from 90 papers submitted. The papers are organized in topical sections on anonymity, watermarking, theory, watermark attacks, steganography, hiding in unusual content, steganalysis, software watermarking, and fingerprinting. 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. This book includes proceedings of the 15th International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS-2021), which took place in Asan, Korea, on July 1-3, 2021. With the proliferation of wireless technologies and electronic devices, there is a fast-growing interest in Ubiquitous and Pervasive Computing (UPC). The UPC enables to create a human-oriented computing environment where computer chips are embedded in everyday objects and interact with physical world. Through UPC, people can get online even while moving around, thus, having almost permanent access to their preferred services. With a great potential to revolutionize our lives, UPC also poses new research challenges. The aim of the book is to provide the latest research findings, methods, development techniques, challenges, and solutions from both theoretical and practical perspectives related to UPC with an emphasis on innovative, mobile, and Internet services. This book constitutes the refereed proceedings of the 19th International Conference on Verification, Model Checking, and Abstract Interpretation, VMCAI 2018, held in Los Angeles, CA, USA, in January 2018.The 24 full papers presented together with the abstracts of 3 invited keynotes and 1 invited tutorial were carefully reviewed and selected from 43 submissions. VMCAI provides topics including: program verification, model checking, abstract interpretation, program synthesis, static analysis, type systems, deductive methods, program certification, decision procedures, theorem proving, program certification, debugging techniques, program transformation, optimization, and hybrid and cyber-physical systems. The worldwide reach of the Internet allows malicious cyber criminals to coordinate and launch attacks on both cyber and cyber-physical infrastructure from anywhere in the world. This purpose of this handbook is to introduce the theoretical

foundations and practical solution techniques for securing critical cyber and physical infrastructures as well as their underlying computing and communication architectures and systems. Examples of such infrastructures include utility networks (e.g., electrical power grids), ground transportation systems (automotives, roads, bridges and tunnels), airports and air traffic control systems, wired and wireless communication and sensor networks, systems for storing and distributing water and food supplies, medical and healthcare delivery systems, as well as financial, banking and commercial transaction assets. The handbook focus mostly on the scientific foundations and engineering techniques – while also addressing the proper integration of policies and access control mechanisms, for example, how human-developed policies can be properly enforced by an automated system. Addresses the technical challenges facing design of secure infrastructures by providing examples of problems and solutions from a wide variety of internal and external attack scenarios Includes contributions from leading researchers and practitioners in relevant application areas such as smart power grid, intelligent transportation systems, healthcare industry and so on Loaded with examples of real world problems and pathways to solutions utilizing specific tools and techniques described in detail throughout This book constitutes the refereed proceedings of the Fourth International Conference on Mathematical Methods, Models, and Architectures for Computer Network Security, MMM-ACNS 2007, held in St. Petersburg, Russia in September 2007. Its objective was to bring together leading researchers from academia and governmental organizations as well as practitioners in the area of computer networks and information security. This is the refereed proceedings of the 11th International Conference on Algebraic Methodology and Software Technology. The book collects 24 revised full papers together with 3 system demonstrations and 3 invited talks. Coverage includes current issues in formal methods related to algebraic approaches and to software engineering including abstract data types, process algebras, algebraic specification, model checking, abstraction, refinement, mu-calculus, state machines, rewriting, Kleene algebra, programming logic, and formal software development. This book constitutes the thoroughly refereed proceedings of the 19th International Symposium on Static Analysis, SAS 2012, held in Deauville, France, in September 2012. The 25 revised full papers presented together with 4 invited talks were selected from 62 submissions. The papers address all aspects of static analysis, including abstract domains, abstract interpretation, abstract testing, bug detection, data flow analysis, model checking, new applications, program transformation, program verification, security analysis, theoretical frameworks, and type checking. Software is an essential enabler for science and the new economy. It creates new markets and directions for a more reliable, flexible and robust society and empowers the exploration of our world in ever more depth, but it often falls short of our expectations. Current software methodologies, tools, and techniques are still neither robust nor reliable enough for the constantly evolving market, and many promising approaches have so far failed to deliver the solutions required. This book presents the keynote ‘Engineering Cyber-Physical Systems’ and 64 peer-reviewed papers from the 16th International Conference on New Trends in Intelligent Software Methodology Tools, and Techniques, (SoMeT_17), held in Kitakyushu, Japan, in September 2017, which brought together researchers and practitioners to share original research results and practical development experience in software science and related new technologies. The aim of the SoMeT conferences is to capture the essence of the new state-of-the-art in software science and its supporting technology and to identify the challenges such technology will have to master. The book explores new trends and theories which illuminate the direction of developments in this field, and will be of interest to anyone whose work involves software science and its integration into tomorrow’s global information society. 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. Originating from presentations at the 17th International Conference on Railway Engineering Design and Operation, this volume contains selected research works on the topic. It is important to continue to update the use of advanced systems by promoting general awareness throughout the management, design, manufacture and operation of railways and other emerging passenger, freight and transit systems. The included papers help to facilitate this goal and place a key focus on the applications of computer systems in advanced railway engineering. These research studies will be of interest to all those involved in the development of railways, including managers, consultants, railway engineers, designers of advanced train control systems and computer specialists. The four-volume set LNCS 11334-11337 constitutes the proceedings of the 18th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2018, held in Guangzhou, China, in November 2018. The 141 full and 50 short papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on Distributed and Parallel Computing; High Performance Computing; Big Data and Information Processing; Internet of Things and Cloud Computing; and Security and Privacy in Computing. This book presents selected proceedings of the annual convention of the Computer Society of India. Divided into 10 topical volumes, the proceedings present papers on state-of-the-art research, surveys, and succinct reviews. They cover diverse topics ranging from communications networks to big data analytics, and from system architecture to cyber security. This book focuses on Software Engineering, and informs readers about the state of the art in software engineering by gathering high-quality papers that represent the outcomes of consolidated research and innovations in Software Engineering and related areas. In addition to helping practitioners and researchers understand the chief issues involved in designing, developing, evolving and validating complex software systems, it provides comprehensive information on developing professional careers in Software Engineering. It also provides insights into various research issues such as software reliability, verification and validation, security and extensibility, as well as the latest concepts like component-based development, software process models, process-driven systems and human-computer collaborative systems.

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