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Computer Safety, Reliability, and Security-Amund Skavhaug 2016-09-01 This book constitutes the refereed proceedings of four workshops co-located with SAFECOMP 2016, the 35th International Conference on Computer Safety, Reliability, and Security, held in Trondheim, Norway, in September 2016. The 30 revised full papers presented together with 4 short and 5 invited papers were carefully reviewed and selected from numerous submissions. This year's workshop are: ASSURE 2016 - Assurance Cases for Software-intensive Systems; DECSoS 2016 - EWICS/ERCIM/ARTEMIS Dependable Cyber-physical Systems and Systems-of-Systems Workshop; SASSUR 2016 - Next Generation of System Assurance Approaches for Safety-Critical Systems; and TIPS 2016 – Timing Performance in Safety Engineering.
Intelligent System Solutions for Auto Mobility and Beyond-Carolin Zachäus
Security in Autonomous Driving-Obaid Ur-Rehman 2020-10-12 Autonomous driving is an emerging field. Vehicles are equipped with different systems such as radar, lidar, GPS etc. that enable the vehicle to make decisions and navigate without user's input, but there are still concerns regarding safety and security. This book analyses the security needs and solutions which are beneficial to autonomous driving.
Introduction to Self-Driving Vehicle Technology-Hanky Sjafrie 2019-11-21 This book aims to teach the core concepts that make Self-driving vehicles (SDVs) possible. It is aimed at people who want to get their teeth into self-driving vehicle technology, by providing genuine technical insights where other books just skim the surface. The book tackles everything from sensors and perception to functional safety and cybersecurity. It also passes on some practical know-how and discusses concrete SDV applications, along with a discussion of where this technology is heading. It will serve as a good starting point for software developers or professional engineers who are eager to pursue a career in this exciting field and want to learn more about the basics of SDV algorithms. Likewise, academic researchers, technology enthusiasts, and journalists will also find the book useful. Key Features: Offers a comprehensive technological walk-through of what really matters in SDV development: from hardware, software, to functional safety and cybersecurity Written by an active practitioner with extensive experience in series development and research in the fields of Advanced Driver Assistance Systems (ADAS) and Autonomous Driving Covers theoretical fundamentals of state-of-the-art SLAM, multi-sensor data fusion, and other SDV algorithms. Includes practical information and hands-on material with Robot Operating System (ROS) and Open Source Car Control (OSCC). Provides an overview of the strategies, trends, and applications which companies are pursuing in this field at present as well as other technical insights from the industry.
Cybersecurity for Commercial Vehicles-Gloria D'Anna 2018-08-28 This book provides a thorough view of cybersecurity to encourage those in the commercial vehicle industry to be fully aware and concerned that their fleet and cargo could be at risk to a cyber-attack. It delivers details on key subject areas including: SAE International Standard J3061; the cybersecurity guidebook for cyber-physical vehicle systems The differences between automotive and commercial vehicle cybersecurity. Forensics for identifying breaches in cybersecurity. Platooning and fleet implications. Impacts and importance of secure systems for today and for the future. Cybersecurity for all segments of the commercial vehicle industry requires comprehensive solutions to secure networked vehicles and the transportation infrastructure. It clearly demonstrates the likelihood that an attack can happen, the impacts that would occur, and the need to continue to address those possibilities. This multi-authored presentation by subject-matter experts provides an interesting and dynamic story of how industry is developing solutions that address the critical security issues; the key social, policy, and privacy perspectives; as well as the integrated efforts of industry, academia, and government to shape the current knowledge and future cybersecurity for the commercial vehicle industry.
Computer Safety, Reliability, and Security-Alexander Romanovsky 2019-09-29 This book constitutes the proceedings of the Workshops held in conjunction with SAFECOMP 2019, 38th International Conference on Computer Safety, Reliability and Security, in September 2019 in Turku, Finland. The 32 regular papers included in this volume were carefully reviewed and selected from 43 submissions; the book also contains two invited papers. The workshops included in this volume are: ASSURE 2019: 7th International Workshop on Assurance Cases for Software-Intensive Systems DECSoS 2019: 14th ERCIM/EWICS/ARTEMIS Workshop on Dependable Smart Embedded and Cyber-Physical Systems and Systems-of-Systems SASSUR 2019: 8th International Workshop on Next Generation of System Assurance Approaches for Safety-Critical Systems STRIVE 2019: Second International Workshop on Safety, securiTy, and pRivacy In automotiVe systEms WAISE 2019: Second International Workshop on Artificial Intelligence Safety Engineering
Security Patterns-Markus Schumacher 2013-07-12 Most security books are targeted at security engineers and specialists. Few show how build security into software. None breakdown the different concerns facing security at different levels of the system: the enterprise, architectural and operational layers. Security Patterns addresses the full spectrum of security in systems design, using best practice solutions to show how to integrate security in the broader engineering process. Essential for designers building large-scale systems who want best practice solutions to typical security problems Real world case studies illustrate how to use the patterns in specific domains For more information visit www.securitypatterns.org
Hacking Connected Cars-Alissa Knight 2020-02-25 A field manual on contextualizing cyber threats, vulnerabilities, and risks to connected cars through penetration testing and risk assessment Hacking Connected Cars deconstructs the tactics, techniques, and procedures (TTPs) used to hack into connected cars and autonomous vehicles to help you identify and mitigate vulnerabilities affecting cyber-physical vehicles. Written by a veteran of risk management and penetration testing of IoT devices and connected cars, this book provides a detailed account of how to perform penetration testing, threat modeling, and risk assessments of telematics control units and infotainment systems. This book demonstrates how vulnerabilities in wireless networking, Bluetooth, and GSM can be exploited to affect confidentiality, integrity, and availability of connected cars. Passenger vehicles have experienced a massive increase in connectivity over the past five years, and the trend will only continue to grow with the expansion of The Internet of Things and increasing consumer demand for always-on connectivity. Manufacturers and OEMs need the ability to push updates without requiring service visits, but this leaves the vehicle's systems open to attack. This book examines the issues in depth, providing cutting-edge preventative tactics that security practitioners, researchers, and vendors can use to keep connected cars safe without sacrificing connectivity. Perform penetration testing of infotainment systems and telematics control units through a step-by-step methodical guide Analyze risk levels surrounding vulnerabilities and threats that impact confidentiality, integrity, and availability Conduct penetration testing using the same tactics, techniques, and procedures used by hackers From relatively small features such as automatic parallel parking, to completely autonomous self-driving cars—all connected systems are vulnerable to attack. As connectivity becomes a way of life, the need for security expertise for in-vehicle systems is becoming increasingly urgent. Hacking Connected Cars provides practical, comprehensive guidance for keeping these vehicles secure.
AUTOMOTIVE CYBER SECURITY CHALLENGES A Beginner's Guide-Dr Yasir Imtiaz Khan 2020-02-24 This book explores the need for cyber security in automotive and what all the stakeholderse.g., Original Equipment Manufacturers (OEMs), users, security experts could do to fillthe cyber security gaps. In particular, it looks at the security domain changes and howthreat modelling and ethical hacking can help to secure modern vehicles. Furthermore, itexamines the skills and tools that everyone who wants to work as automotive cyber securitypersonal needs to be aware of, as well as how to think like an attacker and explore someadvanced security methodologies.This book could serve very well as a text book for undergraduate (year 3) and postgraduatemodules for automotive cyber security.
Automotive Ethernet-Kirsten Matheus 2014-11-27 Learn how automotive Ethernet is revolutionizing in-car networking from the experts at the core of its development. Providing an in-depth account of automotive Ethernet, from its background and development, to its future prospects, this book is ideal for industry professionals and academics alike.
Computer Safety, Reliability, and Security-Stefano Tonetta 2017-09-01 This book constitutes the refereed proceedings of five workshops co-located with SAFECOMP 2017, the 36th International Conference on Computer Safety, Reliability, and Security, held in Trento, Italy, in September 2017. The 38 revised full papers presented together with 5 introductory papers to each workshop, and three invited papers, were carefully reviewed and selected from 49 submissions. This year's workshops are: ASSURE 2017 – Assurance Cases for Software-Intensive Systems; DECSoS 2017 – ERCIM/EWICS/ARTEMIS Dependable Embedded and Cyber-Physical Systems and Systems-of-Systems; SASSUR 2017 – Next Generation of System Assurance Approaches for Safety-Critical Systems; TIPS 2017 – Timing Performance in Safety Engineering; TELERISE 2017 Technical and legal Aspects of Data Privacy and Security.
Systems, Software and Services Process Improvement-Xabier Larrucea 2018-08-22 This volume constitutes the refereed proceedings of the 25th European Conference on Systems, Software and Services Process Improvement, EuroSPI conference, held in Bilbao, Spain, in September 2018. The 56 revised full papers presented were carefully reviewed and selected from 95 submissions. They are organized in topical sections on SPI context and agility, SPI and safety testing, SPI and management issues, SPI and assessment, SPI and safety critical, gamifySPI, SPI in industry 4.0, best practices in implementing traceability, good and bad practices in improvement, safety and security, experiences with agile and lean, standards and assessment models,team skills and diversity strategies, SPI in medical device industry, empowering the future infrastructure.
Computer Safety, Reliability, and Security-Barbara Gallina 2018-09-03 This book constitutes the refereed proceedings of five workshops co-located with SAFECOMP 2018, the 37th International Conference on Computer Safety, Reliability, and Security, held in Västerås, Sweden, in September 2018. The 28 revised full papers and 21 short papers presented together with 5 introductory papers to each workshop were carefully reviewed and selected from 73 submissions. This year's workshops are: ASSURE 2018 – Assurance Cases for Software-Intensive Systems; DECSoS 2018 – ERCIM/EWICS/ARTEMIS Dependable Smart Embedded and Cyber-Physical Systems and Systems-of-Systems; SASSUR 2018 – Next Generation of System Assurance Approaches for Safety-Critical Systems; STRIVE 2018 – Safety, securiTy, and pRivacy In automotiVe systEms; and WAISE 2018 – Artificial Intelligence Safety Engineering.
Cyber-Physical Security-Robert M. Clark 2016-08-10 This book focuses on the vulnerabilities of state and local services to cyber-threats and suggests possible protective action that might be taken against such threats. Cyber-threats to U.S. critical infrastructure are of growing concern to policymakers, managers and consumers. Information and communications technology (ICT) is ubiquitous and many ICT devices and other components are interdependent; therefore, disruption of one component may have a negative, cascading effect on others. Cyber-attacks might include denial of service, theft or manipulation of data. Damage to critical infrastructure through a cyber-based attack could have a significant impact on the national security, the economy, and the livelihood and safety of many individual citizens. Traditionally cyber security has generally been viewed as being focused on higher level threats such as those against the internet or the Federal government. Little attention has been paid to cyber-security at the state and local level. However, these governmental units play a critical role in providing services to local residents and consequently are highly vulnerable to cyber-threats. The failure of these services, such as waste water collection and water supply, transportation, public safety, utility services, and communication services, would pose a great threat to the public. Featuring contributions from leading experts in the field, this volume is intended for state and local government officials and managers, state and Federal officials, academics, and public policy specialists.
Systems, Software and Services Process Improvement-Jakub Stolfa 2017-08-23 This volume constitutes the refereed proceedings of the 24th EuroSPI conference, held in Ostrava, Czech Republic, in September 2017.The 56 revised full papers presented were carefully reviewed and selected from 97 submissions. They are organized in topical sections on SPI and VSEs, SPI and process models, SPI and safety, SPI and project management, SPI and implementation, SPI issues, SPI and automotive, selected key notes and workshop papers, GamifySPI, SPI in Industry 4.0, best practices in implementing traceability, good and bad practices in improvement, safety and security, experiences with agile and lean, standards and assessment models, team skills and diversity strategies.
Threat Modeling-Frank Swiderski 2004 Delve into the threat modeling methodology used by Microsoft's] security experts to identify security risks, verify an application's security architecture, and develop countermeasures in the design, coding, and testing phases. (Computer Books)
Orchestrating and Automating Security for the Internet of Things-Anthony Sabella 2018-06-04 Master powerful techniques and approaches for securing IoT systems of all kinds–current and emerging Internet of Things (IoT) technology adoption is accelerating, but IoT presents complex new security challenges. Fortunately, IoT standards and standardized architectures are emerging to help technical professionals systematically harden their IoT environments. In Orchestrating and Automating Security for the Internet of Things, three Cisco experts show how to safeguard current and future IoT systems by delivering security through new NFV and SDN architectures and related IoT security standards. The authors first review the current state of IoT networks and architectures, identifying key security risks associated with nonstandardized early deployments and showing how early adopters have attempted to respond. Next, they introduce more mature architectures built around NFV and SDN. You'll discover why these lend themselves well to IoT and IoT security, and master advanced approaches for protecting them. Finally, the authors preview future approaches to improving IoT security and present real-world use case examples. This is an indispensable resource for all technical and security professionals, business security and risk managers, and consultants who are responsible for systems that incorporate or utilize IoT devices, or expect to be responsible for them. · Understand the challenges involved in securing current IoT networks and architectures · Master IoT security fundamentals, standards, and modern best practices · Systematically plan for IoT security · Leverage Software-Defined Networking (SDN) and Network Function Virtualization (NFV) to harden IoT networks · Deploy the advanced IoT platform, and use MANO to manage and orchestrate virtualized network functions · Implement platform security services including identity, authentication, authorization, and accounting · Detect threats and protect data in IoT environments · Secure IoT in the context of remote access and VPNs · Safeguard the IoT platform itself · Explore use cases ranging from smart cities and advanced energy systems to the connected car · Preview evolving concepts that will shape the future of IoT security
Information Security Theory and Practice-Gerhard P. Hancke 2018-06-20 This volume constitutes the refereed proceedings of the 11th IFIP WG 11.2 International Conference on Information Security Theory and Practices, WISTP 2017, held in Heraklion, Crete, Greece, in September 2017. The 8 revised full papers and 4 short papers presented were carefully reviewed and selected from 35 submissions. The papers are organized in the following topical sections: security in emerging systems; security of data; trusted execution; defenses and evaluation; and protocols and algorithms.
Embedded Security in Cars-Kerstin Lemke 2006-03-28 Most innovations in the car industry are based on software and electronics, and IT will soon constitute the major production cost factor. It seems almost certain that embedded IT security will be crucial for the next generation of applications. Yet whereas software safety has become a relatively well-established field, the protection of automotive IT systems against manipulation or intrusion has only recently started to emerge. Lemke, Paar, and Wolf collect in this volume a state-of-the-art overview on all aspects relevant for IT security in automotive applications. After an introductory chapter written by the editors themselves, the contributions from experienced experts of different disciplines are structured into three parts. "Security in the Automotive Domain" describes applications for which IT security is crucial, like immobilizers, tachographs, and software updates. "Embedded Security Technologies" details security technologies relevant for automotive applications, e.g., symmetric and asymmetric cryptography, and wireless security. "Business Aspects of IT Systems in Cars" shows the need for embedded security in novel applications like location-based navigation systems and personalization. The first book in this area of fast-growing economic and scientific importance, it is indispensable for both researchers in software or embedded security and professionals in the automotive industry.
Global Software and IT-Christof Ebert 2011-09-26 Based on the author's first-hand experience and expertise,this book offers a proven framework for global softwareengineering. Readers will learn best practices for managing avariety of software projects, coordinating the activities ofseveral locations across the globe while accounting for culturaldifferences. Most importantly, readers will learn how to engineer afirst-rate software product as efficiently as possible by fullyleveraging global personnel and resources. Global Software and IT takes a unique approach that works forprojects of any size, examining such critical topics as: Executing a seamless project across multiple locations Mitigating the risks of off-shoring Developing and implementing processes for globaldevelopment Establishing practical outsourcing guidelines Fostering effective collaboration and communication acrosscontinents and culture This book provides a balanced framework for planning globaldevelopment, covering topics such as managing people in distributedsites and managing a project across locations. It delivers acomprehensive business model that is beneficial to anyone lookingfor the most cost-effective, efficient way to engineer goodsoftware products.
Intelligent Transport Systems-Asier Perallos 2015-11-23 The book provides a systematic overview of Intelligent Transportation Systems (ITS). First, it includes an insight into the reference architectures developed within the main EU research projects. Then, it delves into each of the layers of such architectures, from physical to application layer, describing the technological issues which are being currently faced by some of the most important ITS research groups. The book concludes with some end user services and applications deployed by industrial partners. This book is a well-balanced combination of academic contributions and industrial applications in the field of Intelligent Transportation Systems. The most representative technologies and research results achieved by some of the most relevant research groups working on ITS, collated to show the chances of generating industrial solutions to be deployed in real transportation environments.
Advanced Microsystems for Automotive Applications 2015-Tim Schulze 2015-06-30 This edited volume presents the proceedings of the AMAA 2015 conference, Berlin, Germany. The topical focus of the 2015 conference lies on smart systems for green and automated driving. The automobile of the future has to respond to two major trends, the electrification of the drivetrain, and the automation of the transportation system. These trends will not only lead to greener and safer driving but re-define the concept of the car completely, particularly if they interact with each other in a synergetic way as for autonomous parking and charging, self-driving shuttles or mobile robots. Key functionalities like environment perception are enabled by electronic components and systems, sensors and actuators, communication nodes, cognitive systems and smart systems integration. The book will be a valuable read for research experts and professionals in the automotive industry but the book may also be beneficial for graduate students.
Information Security Theory and Practice-Sara Foresti 2016-09-19 This volume constitutes the refereed proceedings of the 10th IFIP WG 11.2 International Conference on Information Security Theory and Practices, WISTP 2016, held in Heraklion, Crete, Greece, in September 2016. The 13 revised full papers and 5 short papers presented together in this book were carefully reviewed and selected from 29 submissions. WISTP 2016 sought original submissions from academia and industry presenting novel research on all theoretical and practical aspects of security and privacy, as well as experimental studies of fielded systems, the application of security technology, the implementation of systems, and lessons learned. The papers are organized in topical sections on authentication and key management; secure hardware systems; attacks to software and network systems; and access control and data protection.
Solutions for Cyber-Physical Systems Ubiquity-Druml, Norbert 2017-07-20 Cyber-physical systems play a crucial role in connecting aspects of online life to physical life. By studying emerging trends in these systems, programming techniques can be optimized and strengthened to create a higher level of effectiveness. Solutions for Cyber-Physical Systems Ubiquity is a critical reference source that discusses the issues and challenges facing the implementation, usage, and challenges of cyber-physical systems. Highlighting relevant topics such as the Internet of Things, smart-card security, multi-core environments, and wireless sensor nodes, this scholarly publication is ideal for engineers, academicians, computer science students, and researchers that would like to stay abreast of current methodologies and trends involving cyber-physical system progression.
Automotive Systems and Software Engineering-Yanja Dajsuren 2019-07-17 This book presents the state of the art, challenges and future trends in automotive software engineering. The amount of automotive software has grown from just a few lines of code in the 1970s to millions of lines in today's cars. And this trend seems destined to continue in the years to come, considering all the innovations in electric/hybrid, autonomous, and connected cars. Yet there are also concerns related to onboard software, such as security, robustness, and trust. This book covers all essential aspects of the field. After a general introduction to the topic, it addresses automotive software development, automotive software reuse, E/E architectures and safety, C-ITS and security, and future trends. The specific topics discussed include requirements engineering for embedded software systems, tools and methods used in the automotive industry, software product lines, architectural frameworks, various related ISO standards, functional safety and safety cases, cooperative intelligent transportation systems, autonomous vehicles, and security and privacy issues. The intended audience includes researchers from academia who want to learn what the fundamental challenges are and how they are being tackled in the industry, and practitioners looking for cutting-edge academic findings. Although the book is not written as lecture notes, it can also be used in advanced master's-level courses on software and system engineering. The book also includes a number of case studies that can be used for student projects.
Threat Modeling-Adam Shostack 2014-02-12 The only security book to be chosen as a Dr. Dobbs Jolt Award Finalist since Bruce Schneier's Secrets and Lies and Applied Cryptography! Adam Shostack is responsible for security development lifecycle threat modeling at Microsoft and is one of a handful of threat modeling experts in the world. Now, he is sharing his considerable expertise into this unique book. With pages of specific actionable advice, he details how to build better security into the design of systems, software, or services from the outset. You'll explore various threat modeling approaches, find out how to test your designs against threats, and learn effective ways to address threats that have been validated at Microsoft and other top companies. Systems security managers, you'll find tools and a framework for structured thinking about what can go wrong. Software developers, you'll appreciate the jargon-free and accessible introduction to this essential skill. Security professionals, you'll learn to discern changing threats and discover the easiest ways to adopt a structured approach to threat modeling. Provides a unique how-to for security and software developers who need to design secure products and systems and test their designs Explains how to threat model and explores various threat modeling approaches, such as asset-centric, attacker-centric and software-centric Provides effective approaches and techniques that have been proven at Microsoft and elsewhere Offers actionable how-to advice not tied to any specific software, operating system, or programming language Authored by a Microsoft professional who is one of the most prominent threat modeling experts in the world As more software is delivered on the Internet or operates on Internet-connected devices, the design of secure software is absolutely critical. Make sure you're ready with Threat Modeling: Designing for Security.
Model-Based Safety Analysis-National Aeronaut Administration (Nasa) 2020-08-18 System safety analysis techniques are well established and are used extensively during the design of safety-critical systems. Despite this, most of the techniques are highly subjective and dependent on the skill of the practitioner. Since these analyses are usually based on an informal system model, it is unlikely that they will be complete, consistent, and error free. In fact, the lack of precise models of the system architecture and its failure modes often forces the safety analysts to devote much of their effort to gathering architectural details about the system behavior from several sources and embedding this information in the safety artifacts such as the fault trees. This report describes Model-Based Safety Analysis, an approach in which the system and safety engineers share a common system model created using a model-based development process. By extending the system model with a fault model as well as relevant portions of the physical system to be controlled, automated support can be provided for much of the safety analysis. We believe that by using a common model for both system and safety engineering and automating parts of the safety analysis, we can both reduce the cost and improve the quality of the safety analysis. Here we present our vision of model-based safety analysis and discuss the advantages and challenges in making this approach practical. Joshi, Anjali and Heimdahl, Mats P. E. and Miller, Steven P. and Whalen, Mike W. Langley Research Center NASA/CR-2006-213953 SYSTEMS ENGINEERING; MODELS; FORMALISM; SAFETY; AUTOMATIC CONTROL; COST REDUCTION; FAILURE MODES; FAULT TREES; DIGITAL SYSTEMS
Open Source Fuzzing Tools-Noam Rathaus 2011-04-18 Fuzzing is often described as a "black box software testing technique. It works by automatically feeding a program multiple input iterations in an attempt to trigger an internal error indicative of a bug, and potentially crash it. Such program errors and crashes are indicative of the existence of a security vulnerability, which can later be researched and fixed. Fuzz testing is now making a transition from a hacker-grown tool to a commercial-grade product. There are many different types of applications that can be fuzzed, many different ways they can be fuzzed, and a variety of different problems that can be uncovered. There are also problems that arise during fuzzing; when is enough enough? These issues and many others are fully explored. Fuzzing is a fast-growing field with increasing commercial interest (7 vendors unveiled fuzzing products last year). Vendors today are looking for solutions to the ever increasing threat of vulnerabilities. Fuzzing looks for these vulnerabilities automatically, before they are known, and eliminates them before release. Software developers face an increasing demand to produce secure applications—and they are looking for any information to help them do that.
Complex Systems Design & Management Asia-Michel Alexandre Cardin 2018-11-16 This book gathers all papers presented at the third edition of the international conference "Complex Systems Design & Management Asia" (CSD&M Asia 2018), which was held at the National University of Singapore (NUS) on December 6-7, 2018. Mastering complex systems requires an integrated understanding of industrial practices as well as sophisticated theoretical techniques and tools. This vision was the inspiration for creating an annual forum in the Asia-Pacific region dedicated to bringing together academic researchers & industrial actors working on architecture, modeling & engineering of complex technical & organizational systems. These proceedings cover the latest trends in the emerging field of complex systems, both from an academic and a professional perspective. Special emphasis is placed on "Smart Transportation." The CSD&M Asia 2018 conference is organized under the guidance of CESAM Community which is managed by the non-profit organization CESAMES. The goal of CESAM Community is to structure the sharing of good practices in enterprise and systems architecture, and to certify the level of knowledge and proficiency in this field by means of CESAM certification.
Computer Safety, Reliability, and Security-Barbara Gallina 2018-09-03 This book constitutes the refereed proceedings of the 37th International Conference on Computer Safety, Reliability, and Security, SAFECOMP 2018, held in Västerås, Sweden, in September 2018. The 19 revised full papers and 1 short paper presented together with three abstracts of keynotes were carefully reviewed and selected from 63 submissions. The papers are organized in topical sections on Automotive Safety Standards and Cross-domain Reuse Potential; Autonomous Driving and Safety Analysis; Verification; Multi-concern Assurance; Fault Tolerance; and Safety and Security Risk.
Cyber-Physical Systems Security-Çetin Kaya Koç 2018-12-06 The chapters in this book present the work of researchers, scientists, engineers, and teachers engaged with developing unified foundations, principles, and technologies for cyber-physical security. They adopt a multidisciplinary approach to solving related problems in next-generation systems, representing views from academia, government bodies, and industrial partners, and their contributions discuss current work on modeling, analyzing, and understanding cyber-physical systems.
The Car Hacker's Handbook-Craig Smith 2016-03-01 Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with today's more hostile security environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker's Handbook will show you how to: –Build an accurate threat model for your vehicle –Reverse engineer the CAN bus to fake engine signals –Exploit vulnerabilities in diagnostic and data-logging systems –Hack the ECU and other firmware and embedded systems –Feed exploits through infotainment and vehicle-to-vehicle communication systems –Override factory settings with performance-tuning techniques –Build physical and virtual test benches to try out exploits safely If you're curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker's Handbook your first stop.
Integrated Management Systems-Chad Kymal 2015-05-13 Updated to the latest standard changes including ISO 9001:2015, ISO 14001:2015, and OHSAS 18001:2016 Includes guidance on integrating Corporate Responsibility and Sustainability Organizations today are implementing stand-alone systems for their Quality Management Systems (ISO 9001, ISO/TS 16949, or AS 9100), Environmental Management System (ISO 14001), Occupational Health & Safety (ISO 18001), and Food Safety Management Systems (FSSC 22000). Stand-alone systems refer to the use of isolated document management structures resulting in the duplication of processes within one site for each of the management standards—QMS, EMS, OHSAS, and FSMS. In other words, the stand-alone systems duplicate training processes, document control, and internal audit processes for each standard within the company. While the confusion and lack of efficiency resulting from this decision may not be readily apparent to the uninitiated, this book will show the reader that there is a tremendous loss of value associated with stand-alone management systems within an organization. This book expands the understanding of an integrated management system (IMS) globally. It not only saves money, but more importantly it contributes to the maintenance and efficiency of business processes and conformance standards such as ISO 9001, AS9100, ISO/TS 16949, ISO 14001, OHSAS 18001, FSSC 22000, or other GFSI Standards.
Engineering a Safer World-Nancy G. Leveson 2016-10-17 A new approach to safety, based on systems thinking, that is more effective, less costly, and easier to use than current techniques. Engineering has experienced a technological revolution, but the basic engineering techniques applied in safety and reliability engineering, created in a simpler, analog world, have changed very little over the years. In this groundbreaking book, Nancy Leveson proposes a new approach to safety--more suited to today's complex, sociotechnical, software-intensive world--based on modern systems thinking and systems theory. Revisiting and updating ideas pioneered by 1950s aerospace engineers in their System Safety concept, and testing her new model extensively on real-world examples, Leveson has created a new approach to safety that is more effective, less expensive, and easier to use than current techniques. Arguing that traditional models of causality are inadequate, Leveson presents a new, extended model of causation (Systems-Theoretic Accident Model and Processes, or STAMP), then shows how the new model can be used to create techniques for system safety engineering, including accident analysis, hazard analysis, system design, safety in operations, and management of safety-critical systems. She applies the new techniques to real-world events including the friendly-fire loss of a U.S. Blackhawk helicopter in the first Gulf War; the Vioxx recall; the U.S. Navy SUBSAFE program; and the bacterial contamination of a public water supply in a Canadian town. Leveson's approach is relevant even beyond safety engineering, offering techniques for "reengineering" any large sociotechnical system to improve safety and manage risk.
Security Patterns in Practice-Eduardo Fernandez-Buglioni 2013-06-25 Learn to combine security theory and code to produce secure systems Security is clearly a crucial issue to consider during the design and implementation of any distributed software architecture. Security patterns are increasingly being used by developers who take security into serious consideration from the creation of their work. Written by the authority on security patterns, this unique book examines the structure and purpose of security patterns, illustrating their use with the help of detailed implementation advice, numerous code samples, and descriptions in UML. Provides an extensive, up-to-date catalog of security patterns Shares real-world case studies so you can see when and how to use security patterns in practice Details how to incorporate security from the conceptual stage Highlights tips on authentication, authorization, role-based access control, firewalls, wireless networks, middleware, VoIP, web services security, and more Author is well known and highly respected in the field of security and an expert on security patterns Security Patterns in Practice shows you how to confidently develop a secure system step by step.
Computer Safety, Reliability, and Security-Stefano Tonetta 2017-08-17 This book constitutes the refereed proceedings of the 36th International Conference on ComputerSafety, Reliability, and Security, SAFECOMP 2017, held in Trento, Italy, in September 2017.The 22 revised full papers and two abstracts of keynotes presented were carefully reviewed and selected from 65 submissions. The papers are organized in topical sections on dynamic fault trees; safety case and argumentation; formal verification; autonomous systems; static analysis and testing; safety analysis and assessment; safety and security.
How To Use Automotive Diagnostic Scanners-Tracy Martin 2015-08-01 From hand-held, dedicated units to software that turns PCs and Palm Pilots into powerful diagnostic scanners, auto enthusiasts today have a variety of methods available to make use of on-board diagnostic systems. And not only can they be used to diagnose operational faults, they can be used as low-budget data acquistion systems and dynamometers, so you can maximize your vehicle's performance. Beginning with why scanners are needed to work effectively on modern cars, this book teaches you how to choose the right scanner for your application, how to use the tool, and what each code means. "How To Use Automotive Diagnostic Scanners" is illustrated with photos and diagrams to help you understand OBD-I and OBD-II systems (including CAN) and the scanners that read the information they record. Also included is a comprehensive list of codes and what they mean. From catalytic converters and O2 sensors to emissions and automotive detective work, this is the complete reference for keeping your vehicle EPA-compliant and on the road!
Doing the Right Things Right-Laura Stack 2016-01-18 A How-To Guide for the Modern Leader Inspired by Peter Drucker's groundbreaking book The Effective Executive, Laura Stack details precisely how 21st-century leaders and managers can obtain profitable, productive results by managing the intersection of two critical values: effectiveness and efficiency. Effectiveness, Stack says, is identifying and achieving the best objectives for your organization—doing the right things. Efficiency is accomplishing them with the least amount of time, effort, and cost—doing things right. If you're not clear on both, you're wasting your time. As Drucker put it, "There is nothing so useless as doing efficiently that which should not be done at all." Stack's 3T Leadership offers twelve practices that will enable executives to be effective and efficient, grouped into three areas where leaders spend their time: Strategic Thinking, Teamwork, and Tactics. With her expert advice, you'll get scores of new ideas on how you, your team, and your organization can boost productivity.
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