

Trustworthiness In Qualitative Research

Intrec

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It is your certainly own time to work reviewing habit. accompanied by guides you could enjoy now is **trustworthiness in qualitative research intrec** below.

Hands-On Julia Programming - Sambit Kumar

Dash 2021-10-21

Build production-ready machine learning and NLP systems using functional programming, development platforms, and cloud deployment.

KEY FEATURES ● In-depth explanation and

code samples highlighting the features of the Julia language. ● Extensive coverage of the Julia development ecosystem, package management, DevOps environment integration, and performance management tools. ● Exposure to the most important Julia packages that aid in

Data and Text Analytics and Deep Learning.

DESCRIPTION The Julia Programming language enables data scientists and programmers to create prototypes without sacrificing performance. Nonetheless, skeptics question its readiness for production deployments as a new platform with a 1.0 release in 2018. This book removes these doubts and offers a comprehensive glimpse at the language's use throughout developing and deploying production-ready applications. The first part of the book teaches experienced programmers and scientists about the Julia language features in great detail. The second part consists of gaining hands-on experience with the development environment, debugging, programming guidelines, package management, and cloud deployment strategies. In the final section, readers are introduced to a variety of third-party packages available in the Julia ecosystem for Data Processing, Text Analytics, and developing Deep Learning models. This book provides an

extensive overview of the programming language and broadens understanding of the Julia ecosystem. As a result, it assists programmers, scientists, and information architects in selecting Julia for their next production deployments.

WHAT YOU WILL LEARN

- Get to know the complete fundamentals of Julia programming.
- Explore Julia development frameworks and how to work with them.
- Dig deeper into the concepts and applications of functional programming.
- Uncover the Julia infrastructure for development, testing, and deployment.
- Learn to practice Julia libraries and the Julia package ecosystem.
- Processing Data, Deep Learning, and Natural Language Processing with Julia.

WHO THIS BOOK IS FOR This book is for Data Scientists and application developers who want to learn about Julia application development. No prior Julia knowledge is required but knowing the basics of programming helps understand the objectives of this book.

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Getting Started 2. Data Types 3. Conditions, Control Flow, and Iterations 4. Functions and Methods 5. Collections 6. Arrays 7. Strings 8. Metaprogramming 9. Standard Libraries Module 2. The Development Environment 10. Programming Guidelines in Julia 11. Performance Management 12. IDE and Debugging 13. Package Management 14. Deployment Module 3. Packages in Julia 15. Data Transformations 16. Text Analytics 17. Deep Learning

Situation Awareness with Systems of Systems
Pierre van de Laar 2013-02-03

This book discusses various aspects, challenges, and solutions for developing systems-of-systems for situation awareness, using applications in the domain of maritime safety and security. Topics include advanced, multi-objective visualization methods for situation awareness, stochastic outlier selection, rule-based anomaly detection, an ontology-based event model for semantic reasoning, new methods for semi-automatic

generation of adapters bridging communication gaps, security policies for systems-of-systems, trust assessment, and methods to deal with the dynamics of systems-of-systems in run-time monitoring, testing, and diagnosis. Architectural considerations for designing information-centric systems-of-systems such as situation awareness systems, and an integrated demonstrator implementing many of the investigated aspects, complete the book.

High-Performance and Time-Predictable Embedded Computing - Pinho, Luis Miguel
2018-07-04

Nowadays, the prevalence of computing systems in our lives is so ubiquitous that we live in a cyber-physical world dominated by computer systems, from pacemakers to cars and airplanes. These systems demand for more computational performance to process large amounts of data from multiple data sources with guaranteed processing times. Actuating outside of the required timing bounds may cause the failure of

the system, being vital for systems like planes, cars, business monitoring, e-trading, etc. High-Performance and Time-Predictable Embedded Computing presents recent advances in software architecture and tools to support such complex systems, enabling the design of embedded computing devices which are able to deliver high-performance whilst guaranteeing the application required timing bounds. Technical topics discussed in the book include: Parallel embedded platforms Programming models Mapping and scheduling of parallel computations Timing and schedulability analysis Runtimes and operating systems The work reflected in this book was done in the scope of the European project P-SOCRATES, funded under the FP7 framework program of the European Commission. High-performance and time-predictable embedded computing is ideal for personnel in computer/communication/embedded industries as well as academic staff and master/research

students in computer science, embedded systems, cyber-physical systems and internet-of-things.

User-centric Privacy - Jan Paul Kolter 2010
Today's offered services in the World Wide Web increasingly rely on the disclosure of private user information. Service providers' appetite for personal user data, however, is accompanied by growing privacy implications for Internet users. Targeting the rising privacy concerns of users, privacy-enhancing technologies (PETs) emerged. One goal of these technologies is the provision of tools that facilitate more informed decisions about personal data disclosures. Unfortunately, available PET solutions are used by only a small fraction of Internet users. A major reason for the low acceptance of PETs is their lack of usability. Most PET approaches rely on the cooperation of service providers that do not voluntarily adopt privacy components in their service infrastructures. Addressing the weaknesses of existing PETs, this book introduces a user-

centric privacy architecture that facilitates a provider-independent exchange of privacy-related information about service providers. This capability is achieved by a privacy community, an open information source within the proposed privacy architecture. A Wikipedia-like Web front-end enables collaborative maintenance of service provider information including multiple ratings, experiences and data handling practices. In addition to the collaborative privacy community, the introduced privacy architecture contains three usable PET components on the user side that support users before, during and after the disclosure of personal data. All introduced components are prototypically implemented and underwent several user tests that guaranteed usability and user acceptance of the final versions. The elaborated solutions realize usable interfaces as well as service provider independence. Overcoming the main shortcomings of existing PET solutions, this work makes a significant contribution towards

the broad usage and acceptance of tools that protect personal user data.

The Grid - Maozhen Li 2005-11-01

Find out which technologies enable the Grid and how to employ them successfully! This invaluable text provides a complete, clear, systematic, and practical understanding of the technologies that enable the Grid. The authors outline all the components necessary to create a Grid infrastructure that enables support for a range of wide-area distributed applications. The Grid: Core Technologies takes a pragmatic approach with numerous practical examples of software in context. It describes the middleware components of the Grid step-by-step, and gives hands-on advice on designing and building a Grid environment with the Globus Toolkit, as well as writing applications. The Grid: Core Technologies: Provides a solid and up-to-date introduction to the technologies that underpin the Grid. Contains a systematic explanation of the Grid, including its infrastructure, basic

services, job management, user interaction, and applications. Explains in detail OGSA (Open Grid Services Architecture), Web Services technologies (SOAP, WSDL, UDDI), and Grid Monitoring. Covers Web portal-based tools such as the Java CoG, GridPort, GridSphere, and JSR 168 Portlets. Tackles hot topics such as WSRF (Web Services Resource Framework), the Semantic Grid, the Grid Security Infrastructure, and Workflow systems. Offers practical examples to enhance the understanding and use of Grid components and the associated tools. This rich resource will be essential reading for researchers and postgraduate students in computing and engineering departments, IT professionals in distributed computing, as well as Grid end users such as physicists, statisticians, biologists and chemists.

Human Aspects of Information Security, Privacy and Trust - Theo Tryfonas 2017-05-11
The two-volume set LNCS 10286 + 10287 constitutes the refereed proceedings of the 8th

International Conference on Digital Human Modeling and Applications in Health, Safety, Ergonomics, and Risk Management, DHM 2017, held as part of HCI International 2017 in Vancouver, BC, Canada. HCII 2017 received a total of 4340 submissions, of which 1228 papers were accepted for publication after a careful reviewing process. The 75 papers presented in these volumes were organized in topical sections as follows: Part I: anthropometry, ergonomics, design and comfort; human body and motion modelling; smart human-centered service system design; and human-robot interaction. Part II: clinical and health information systems; health and aging; health data analytics and visualization; and design for safety.

Security and Privacy Preserving in Social Networks - Richard Chbeir 2013-10-17

This volume aims at assessing the current approaches and technologies, as well as to outline the major challenges and future perspectives related to the security and privacy

protection of social networks. It provides the reader with an overview of the state-of-the art techniques, studies, and approaches as well as outlining future directions in this field. A wide range of interdisciplinary contributions from various research groups ensures for a balanced and complete perspective.

The Practice of Enterprise Modeling -

Jennifer Horkoff 2016-10-27

This volume constitutes the proceedings of the 9th IFIP WG 8.1 Conference on the Practice of Enterprise Modeling held in November 2016 in Skövde, Sweden. The PoEM conference series started in 2008 and aims to provide a forum sharing knowledge and experiences between the academic community and practitioners from industry and the public sector. The 18 full papers and 9 short papers accepted were carefully reviewed and selected from 54 submissions and cover topics related to information systems development, enterprise modeling, requirements engineering, and

process management. In addition, the keynote by Robert Winter on "Establishing 'Architectural Thinking' in Organizations" is also included in this volume.

CISSP Study Guide - Eric Conrad 2015-12-08
CISSP Study Guide, Third Edition provides readers with information on the CISSP certification, the most prestigious, globally-recognized, vendor-neutral exam for information security professionals. With over 100,000 professionals certified worldwide, and many more joining their ranks, this new third edition presents everything a reader needs to know on the newest version of the exam's Common Body of Knowledge. The eight domains are covered completely and as concisely as possible, allowing users to ace the exam. Each domain has its own chapter that includes a specially-designed pedagogy to help users pass the exam, including clearly-stated exam objectives, unique terms and definitions, exam warnings, "learning by example" modules, hands-on exercises, and

chapter ending questions. Provides the most complete and effective study guide to prepare users for passing the CISSP exam, giving them exactly what they need to pass the test Authored by Eric Conrad who has prepared hundreds of professionals for passing the CISSP exam through SANS, a popular and well-known organization for information security professionals Covers all of the new information in the Common Body of Knowledge updated in January 2015, and also provides two exams, tiered end-of-chapter questions for a gradual learning curve, and a complete self-test appendix

Risk in Social Science Peter Taylor-Gooby
2006-10-05

This book is designed as an introduction to recent social science work on risk and is intended primarily for students in sociology, social psychology, and psychology, although it will also be useful for those studying political science, government, public policy, and

economics. It is written by leading experts actively involved in research in the field.
Eleventh Hour CISSP Eric Conrad 2016-11-08
Eleventh Hour CISSP provides you with a study guide keyed directly to the most current version of the CISSP exam. This book is streamlined to include only core certification information and is presented for ease of last minute studying. Main objectives of the exam are covered concisely with key concepts highlighted. The CISSP certification is the most prestigious, globally recognized, vendor neutral exam for information security professionals. Over 67,000 professionals are certified worldwide with many more joining their ranks. This new Second Edition is aligned to cover all of the material in the most current version of the exam's Common Body of Knowledge. All 10 domains are covered as completely and as concisely as possible, giving you the best possible chance of acing the exam. All-new Second Edition updated for the most current version of the exam's Common Body of

Knowledge The only guide you need for last minute studying Answers the toughest questions and highlights core topics No fluff - streamlined for maximum efficiency of study - perfect for professionals who are updating their certification or taking the test for the first time

Hrticulture as Therapy Sharon Simson

1997-11-03

Did you know that plants and plant products can be used to improve people's cognitive, physical, psychological, and social functioning? Well, they can, and *Horticulture as Therapy* is the book to show you how! If you are already familiar with the healing potential of horticultural therapy, or even practice horticultural therapy, this book will help you enrich your knowledge and skills and revitalize your practice. You will learn how horticultural therapy can be used with different populations in a variety of settings, what resources are available, effective treatment strategies, and the concepts behind horticultural treatment. The first comprehensive text on the

practice of horticulture as therapy, this one-of-a-kind book will enable the profession to educate future horticultural therapists with fundamental knowledge and skills as they embark on careers as practitioners, researchers, and educators. You come to understand the relationship between people and plants more deeply as you learn about: vocational, social, and therapeutic programs in horticulture special populations including children, older adults, those who exhibit criminal behavior, and those with developmental disabilities, physical disabilities, mental health disorders, or traumatic brain injury use of horticultural therapy in botanical gardening and community settings adaptive gardening techniques applied research documentation and assessment in horticultural practice *Horticulture as Therapy* establishes, integrates, and communicates a foundation of knowledge for horticultural therapists, other therapists, horticulturists, students, research scientists, gardeners, and others interested in

this special and unique kind of therapy. By reading Horticulture as Therapy, you will see how you can make a difference in the health and well-being of so many people, today and tomorrow.

Internet of Things and Inter-cooperative Computational Technologies for Collective Intelligence - Nik Bessis 2012-12-14

Over the past two decades, we have witnessed unprecedented innovations in the development of miniaturized electromechanical devices and low-power wireless communication making practical the embedding of networked computational devices into a rapidly widening range of material entities. This trend has enabled the coupling of physical objects and digital information into cyber-physical systems and it is widely expected to revolutionize the way resource computational consumption and provision will occur. Specifically, one of the core ingredients of this vision, the so-called Internet of Things (IoT), demands the provision of

networked services to support interaction between conventional IT systems with both physical and artificial objects. In this way, IoT is seen as a combination of several emerging technologies, which enables the transformation of everyday objects into smart objects. It is also perceived as a paradigm that connects real world with digital world. The focus of this book is exactly on the novel collective and computational intelligence technologies that will be required to achieve this goal. While, one of the aims of this book is to discuss the progress made, it also prompts future directions on the utilization of inter-operable and cooperative next generation computational technologies, which supports the IoT approach, that being an advanced functioning towards an integrated collective intelligence approach for the benefit of various organizational settings.

5G and Beyond - Xingqin Lin 2021-03-25

This book provides an accessible and comprehensive tutorial on the key enabling

technologies for 5G and beyond, covering both the fundamentals and the state-of-the-art 5G standards. The book begins with a historical overview of the evolution of cellular technologies and addresses the questions on why 5G and what is 5G. Following this, six tutorial chapters describe the fundamental technology components for 5G and beyond. These include modern advancements in channel coding, multiple access, massive multiple-input and multiple-output (MIMO), network densification, unmanned aerial vehicle enabled cellular networks, and 6G wireless systems. The second part of this book consists of five chapters that introduce the basics of 5G New Radio (NR) standards developed by 3GPP. These include 5G architecture, protocols, and physical layer aspects. The third part of this book provides an overview of the key 5G NR evolution directions. These directions include ultra-reliable low-latency communication (URLLC) enhancements, operation in unlicensed spectrum, positioning,

integrated access and backhaul, air-to-ground communication, and non-terrestrial networks with satellite communication.

Official (ISC)2 Guide to the CISSP Exam
Gordon 2015-04-08

As a result of a rigorous, methodical process that (ISC) follows to routinely update its credential exams, it has announced that enhancements will be made to both the Certified Information Systems Security Professional (CISSP) credential, beginning April 15, 2015. (ISC) conducts this process on a regular basis to ensure that the examinations and

IoT Automation - Jerker Delsing 2017-02-17
This book presents an in-depth description of the Arrowhead Framework and how it fosters interoperability between IoT devices at service level, specifically addressing application. The Arrowhead Framework utilizes SOA technology and the concepts of local clouds to provide required automation capabilities such as: real time control, security, scalability, and

engineering simplicity. Arrowhead Framework supports the realization of collaborative automation; it is the only IoT Framework that addresses global interoperability across multiplet SOA technologies. With these features, the Arrowhead Framework enables the design, engineering, and operation of large automation systems for a wide range of applications utilizing IoT and CPS technologies. The book provides application examples from a wide number of industrial fields e.g. airline maintenance, mining maintenance, smart production, electro-mobility, automative test, smart cities—all in response to EU societal challenges. Features Covers the design and implementation of IoT based automation systems. Industrial usage of Internet of Things and Cyber Physical Systems made feasible through Arrowhead Framework. Functions as a design cookbook for building automation systems using IoT/CPS and Arrowhead Framework. Tools, templates, code etc. described in the book will be accessible

through open sources project Arrowhead Framework Wiki at forge.soa4d.org/ Written by the leading experts in the European Union and around the globe.

Key Policies for Addressing the Social Determinants of Health and Health Inequities

Centers of Disease Control
2017-09-27

Evidence indicates that actions within four main themes (early child development fair employment and decent work social protection and the living environment) are likely to have the greatest impact on the social determinants of health and health inequities. A systematic search and analysis of recommendations and policy guidelines from intergovernmental organizations and international bodies identified practical policy options for action on social determinants within these four themes. Policy options focused on early childhood education and care; child poverty; investment strategies for an inclusive economy; active labour market

programmes; working conditions; social cash transfers; affordable housing; and planning and regulatory mechanisms to improve air quality and mitigate climate change. Applying combinations of these policy options alongside effective governance for health equity should enable WHO European Region Member States to reduce health inequities and synergize efforts to achieve the United Nations Sustainable Development Goals.

High-Performance Embedded Computing -
Marilyn Wolf 2014-03-17

High-Performance Embedded Computing, Second Edition, combines leading-edge research with practical guidance in a variety of embedded computing topics, including real-time systems, computer architecture, and low-power design. Author Marilyn Wolf presents a comprehensive survey of the state of the art, and guides you to achieve high levels of performance from the embedded systems that bring these technologies together. The book covers CPU design,

operating systems, multiprocessor programs and architectures, and much more. Embedded computing is a key component of cyber-physical systems, which combine physical devices with computational resources for control and communication. This revised edition adds new content and examples of cyber-physical systems throughout the book, including design methodologies, scheduling, and wide-area CPS to illustrate the possibilities of these new systems. Revised and updated with coverage of recently developed consumer electronics architectures and models of computing Includes new VLIW processors such as the TI Da Vinci, and CPU simulation Learn model-based verification and middleware for embedded systems Supplemental material includes lecture slides, labs, and additional resources

Building School-Community Partnerships -
Mavis G. Sanders 2015-03-17

This current era of high stakes testing, accountability, and shrinking educational

budgets demands that schools seek bold and innovative ways to build strong learning environments for all students. Community involvement is a powerful tool in generating resources that are essential for educational excellence. Building School-Community Partnerships: Collaboration for Student Success emphasizes the importance of community involvement for effective school functioning, student support and well-being, and community health and development. This sharp, insightful book serves as an excellent resource for educators seeking to establish school-community partnerships to achieve goals for their schools and the students, families, and communities they serve. Schools can collaborate with a wide variety of community partners to obtain the resources they need to achieve important goals for students' learning. Some of these partners may include: - Businesses and corporations - Universities and other institutions of higher learning - National and local volunteer

organizations - Social service agencies and health partners - Faith-based organizations and institutions Work successfully with community partners to improve school programs and curricula, strengthen families, and expand your students' learning experiences!

Internet of Things A to Z say F. Hassan
2018-06-13

A comprehensive overview of the Internet of Things' core concepts, technologies, and applications Internet of Things A to Z offers a holistic approach to the Internet of Things (IoT) model. The Internet of Things refers to uniquely identifiable objects and their virtual representations in an Internet-like structure. Recently, there has been a rapid growth in research on IoT communications and networks, that confirms the scalability and broad reach of the core concepts. With contributions from a panel of international experts, the text offers insight into the ideas, technologies, and applications of this subject. The authors discuss

recent developments in the field and the most current and emerging trends in IoT. In addition, the text is filled with examples of innovative applications and real-world case studies. Internet of Things A to Z fills the need for an up-to-date volume on the topic. This important book: Covers in great detail the core concepts, enabling technologies, and implications of the Internet of Things Addresses the business, social, and legal aspects of the Internet of Things Explores the critical topic of security and privacy challenges for both individuals and organizations Includes a discussion of advanced topics such as the need for standards and interoperability Contains contributions from an international group of experts in academia, industry, and research Written for ICT researchers, industry professionals, and lifetime IT learners as well as academics and students, Internet of Things A to Z provides a much-needed and comprehensive resource to this burgeoning field.

Third International Congress on Information and Communication Technology - Simon Sherratt 2019

The book includes selected high-quality research papers presented at the Third International Congress on Information and Communication Technology held at Brunel University, London on February 27-28, 2018. It discusses emerging topics pertaining to information and communication technology (ICT) for managerial applications, e-governance, e-agriculture, e-education and computing technologies, the Internet of Things (IOT), and e-mining. Written by experts and researchers working on ICT, the book is suitable for new researchers involved in advanced studies.

Distributed Computer and Communication Networks - Vladimir M. Vishnevskiy 2021-01-01

This book constitutes the refereed post-conference proceedings of the 23rd International Conference on Distributed and Computer and Communication Networks, DCCN

2020, held in Moscow, Russia, in September 2020. The 54 revised full papers and 1 revised short paper were carefully reviewed and selected from 167 submissions. The papers cover the following topics: computer and communication networks; analytical modeling of distributed systems; and distributed systems applications.

Cyber-Physical Systems: Architecture, Security and Application - Song Guo

2018-09-20

This book provides an overview of recent innovations and achievements in the broad areas of cyber-physical systems (CPS), including architecture, networking, systems, applications, security, and privacy. The book discusses various new CPS technologies from diverse aspects to enable higher level of innovation towards intelligent life. The book provides insight to the future integration, coordination and interaction between the physical world, the information world, and human beings. The book

features contributions from renowned researchers and engineers, who discuss key issues from various perspectives, presenting opinions and recent CPS-related achievements. Investigates how to advance the development of cyber-physical systems Provides a joint consideration of other newly emerged technologies and concepts in relation to CPS like cloud computing, big data, fog computing, and crowd sourcing Includes topics related to CPS such as architecture, system, networking, application, algorithm, security and privacy *High-Performance Embedded Computing* - Wayne Wolf 2010-07-26

Over the past several years, embedded systems have emerged as an integral though unseen part of many consumer, industrial, and military devices. The explosive growth of these systems has resulted in embedded computing becoming an increasingly important discipline. The need for designers of high-performance, application-specific computing systems has never been

greater, and many universities and colleges in the US and worldwide are now developing advanced courses to help prepare their students for careers in embedded computing. High-Performance Embedded Computing: Architectures, Applications, and Methodologies is the first book designed to address the needs of advanced students and industry professionals. Focusing on the unique complexities of embedded system design, the book provides a detailed look at advanced topics in the field, including multiprocessors, VLIW and superscalar architectures, and power consumption. Fundamental challenges in embedded computing are described, together with design methodologies and models of computation. HPEC provides an in-depth and advanced treatment of all the components of embedded systems, with discussions of the current developments in the field and numerous examples of real-world applications. Covers advanced topics in embedded computing,

including multiprocessors, VLIW and superscalar architectures, and power consumption Provides in-depth coverage of networks, reconfigurable systems, hardware-software co-design, security, and program analysis Includes examples of many real-world embedded computing applications (cell phones, printers, digital video) and architectures (the Freescale Starcore, TI OMAP multiprocessor, the TI C5000 and C6000 series, and others)

Proceedings of 2nd International Conference on Communication, Computing and Networking - C. Rama Krishna 2018-09-07

The book provides insights from the 2nd International Conference on Communication, Computing and Networking organized by the Department of Computer Science and Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India on March 29-30, 2018. The book includes contributions in which researchers, engineers, and academicians as well as industrial

professionals from around the globe presented their research findings and development activities in the field of Computing Technologies, Wireless Networks, Information Security, Image Processing and Data Science. The book provides opportunities for the readers to explore the literature, identify gaps in the existing works and propose new ideas for research.

Commercial Communication in the Digital Age - Gabriele Siegert 2017-04-10

In today's digital age, online and mobile advertising are of growing importance, with advertising no longer bound to the traditional media industry. Although the advertising industry still has broader access to the different measures and channels, users and consumers today have more possibilities to publish, get informed or communicate - to "co-create" -, and to reach a bigger audience. There is a good chance thus that users and consumers are better informed about the objectives and persuasive tricks of the advertising industry than ever

before. At the same time, advertisers can inform about products and services without the limitations of time and place faced by traditional mass media. But will there really be a time when advertisers and consumers have equal power, or does tracking users online and offline lead to a situation where advertisers have more information about the consumers than ever before? The volume discusses these questions and related issues.

Persuasive Recommender Systems - Kyung-Hyan Yoo 2012-08-17

Whether users are likely to accept the recommendations provided by a recommender system is of utmost importance to system designers and the marketers who implement them. By conceptualizing the advice seeking and giving relationship as a fundamentally social process, important avenues for understanding the persuasiveness of recommender systems open up. Specifically, research regarding influential factors in advice seeking

relationships, which is abundant in the context of human-human relationships, can provide an important framework for identifying potential influence factors in recommender system context. This book reviews the existing literature on the factors in advice seeking relationships in the context of human-human, human-computer, and human-recommender system interactions. It concludes that many social cues that have been identified as influential in other contexts have yet to be implemented and tested with respect to recommender systems. Implications for recommender system research and design are discussed.

Computer Safety, Reliability, and Security -

Alexander Romanovsky 2019-09-02

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 *Enhancing Communication & Collaboration in Interdisciplinary Research* Michael O'Rourke 2013-07-02
Enhancing Communication & Collaboration in Interdisciplinary Research, edited by Michael O'Rourke, Stephen Crowley, Sanford D.

Eigenbrode, and J. D. Wulforth, is a volume of previously unpublished, state-of-the-art chapters on interdisciplinary communication and collaboration written by leading figures and promising junior scholars in the world of interdisciplinary research, education, and administration. Designed to inform both teaching and research, this innovative book covers the spectrum of interdisciplinary activity, offering a timely emphasis on collaborative interdisciplinary work. The book's four main parts focus on theoretical perspectives, case studies, communication tools, and institutional perspectives, while a final chapter ties together the various strands that emerge in the book and defines trend-lines and future research questions for those conducting work on interdisciplinary communication.

Cyber-Physical Threat Intelligence for Critical Infrastructures Security - John Soldatos 2020-06-30

Modern critical infrastructures comprise of

many interconnected cyber and physical assets, and as such are large scale cyber-physical systems. Hence, the conventional approach of securing these infrastructures by addressing cyber security and physical security separately is no longer effective. Rather more integrated approaches that address the security of cyber and physical assets at the same time are required. This book presents integrated (i.e. cyber and physical) security approaches and technologies for the critical infrastructures that underpin our societies. Specifically, it introduces advanced techniques for threat detection, risk assessment and security information sharing, based on leading edge technologies like machine learning, security knowledge modelling, IoT security and distributed ledger infrastructures. Likewise, it presets how established security technologies like Security Information and Event Management (SIEM), pen-testing, vulnerability assessment and security data analytics can be used in the context of integrated Critical

Infrastructure Protection. The novel methods and techniques of the book are exemplified in case studies involving critical infrastructures in four industrial sectors, namely finance, healthcare, energy and communications. The peculiarities of critical infrastructure protection in each one of these sectors is discussed and addressed based on sector-specific solutions. The advent of the fourth industrial revolution (Industry 4.0) is expected to increase the cyber-physical nature of critical infrastructures as well as their interconnection in the scope of sectorial and cross-sector value chains. Therefore, the demand for solutions that foster the interplay between cyber and physical security, and enable Cyber-Physical Threat Intelligence is likely to explode. In this book, we have shed light on the structure of such integrated security systems, as well as on the technologies that will underpin their operation. We hope that Security and Critical Infrastructure Protection stakeholders will find the book useful when planning their

future security strategies.

Advances in Computing and Communications, Part IV - Ajith Abraham
2011-07-06

This volume is the fourth part of a four-volume set (CCIS 190, CCIS 191, CCIS 192, CCIS 193), which constitutes the refereed proceedings of the First International Conference on Computing and Communications, ACC 2011, held in Kochi, India, in July 2011. The 62 revised full papers presented in this volume were carefully reviewed and selected from a large number of submissions. The papers are the papers of the Workshop on Cloud Computing: Architecture, Algorithms and Applications (CloudComp2011), of the Workshop on Multimedia Streaming (MultiStreams2011), and of the Workshop on Trust Management in P2P Systems (IWTMP2PS2011).

E-agriculture in action - Food and Agriculture Organization of the United Nations 2019-07-15
According to Forbes, we generate almost 2.5

quintillion bytes of data every day. The next generation of agriculture heavily depends on data. The ability to capture, sort, analyze and extract actionable intelligence from large data sets to reveal patterns (human, climate, market) and related trends is an important emerging field. The increase in the use of Internet of Things (IoT) devices would only add to this data deluge. The Economist rightly called data as the world's most valuable resource, while some calling data the new oil. Agriculture would be one of the major users of IoTs. How can individuals, organizations and governments build capacities and processes in place to take advantage of this huge influx of data. This coupled with existing data streams (weather, satellite imagery, markets etc.,) would create an ecosystem which if managed efficiently would provide rich dividends especially in the agriculture sector where the right information at the right time will make a great influence in the livelihoods of people involved in agriculture and

allied activities. This publication looks at how various initiatives are leveraging data, related to agriculture value chains, to influence decision making and efficient service delivery together with addressing key building blocks such as interoperability, data sharing, data security and the necessary policies and regulations that are needed to be implemented to sustain the data ecosystem.

Big Data Analytics in Cybersecurity
Onur Savas
2017-09-18

Big data is presenting challenges to cybersecurity. For an example, the Internet of Things (IoT) will reportedly soon generate a staggering 400 zettabytes (ZB) of data a year. Self-driving cars are predicted to churn out 4000 GB of data per hour of driving. Big data analytics, as an emerging analytical technology, offers the capability to collect, store, process, and visualize these vast amounts of data. Big Data Analytics in Cybersecurity examines security challenges surrounding big data and

provides actionable insights that can be used to improve the current practices of network operators and administrators. Applying big data analytics in cybersecurity is critical. By exploiting data from the networks and computers, analysts can discover useful network information from data. Decision makers can make more informative decisions by using this analysis, including what actions need to be performed, and improvement recommendations to policies, guidelines, procedures, tools, and other aspects of the network processes. Bringing together experts from academia, government laboratories, and industry, the book provides insight to both new and more experienced security professionals, as well as data analytics professionals who have varying levels of cybersecurity expertise. It covers a wide range of topics in cybersecurity, which include: Network forensics Threat analysis Vulnerability assessment Visualization Cyber training. In addition, emerging security domains such as the

IoT, cloud computing, fog computing, mobile computing, and cyber-social networks are examined. The book first focuses on how big data analytics can be used in different aspects of cybersecurity including network forensics, root-cause analysis, and security training. Next it discusses big data challenges and solutions in such emerging cybersecurity domains as fog computing, IoT, and mobile app security. The book concludes by presenting the tools and datasets for future cybersecurity research.

Realising Innovative Partnerships in Educational Research - 2017-01-01

Realising Innovative Partnerships in Educational Research examines the underlying principles and actions that support the development of and engagement in partnerships in educational research. With social justice at its core, the work in this book represents various architectures of innovation, whereby new ways of thinking about partnership research are proposed and practices of teaching and learning are reconciled (or not)

with existing education contexts and practices.

2020 Handbook on AI and International Law -

Suman Kalani 2021-02-12

International Law has transformed and much transfused with other unknown fields in various sciences per se. AI Ethics is one of the emerging fields, where, policy intervention, in line with the idea of multilateralism has emerged merely recently. This emergence is not something pre-decided, but is usually gauged by some countries and some special non-state actors like the UN, for example, and non-state actors, which includes startups, NGOs and civil society actors most of the times. Works such as the Beijing Consensus on AI and Education, 2019, the 2017 Asilomar Conference on Beneficial AI, DARPA's conception of Explainable AI & many more have endorsed a sense of research aptitude and rationalization of the field of AI Ethics in Law, Policy and International Affairs. Our team of research contributors and analysts at the Indian Society of Artificial Intelligence and Law, have

therefore at our very best, prepared a Handbook, in two parts, which caters to some important and influential fields of international law, and its synergy with AI Ethics. This handbook, with utmost humility is not some research encyclopedia. It serves to ignite curiosity and make people rethink or think differently about the way we see AI in our lives. It is a researched handbook, which has been edited by Professor Suman Kalani, Chief Research Expert of ISAIL (also the Assistant Professor at the SVKM's Pravin Gandhi College of Law, Mumbai, India), Kshitij Naik, Chief Strategy Advisor of ISAIL, Akash Manwani, Chief Innovation Officer of ISAIL and me. We have tried to give crisp and detailed case studies on various dynamic fields of AI and international governance, which consist in AI & International Affairs, AI & Society, AI & Ecology, AI & Governance & other miscellaneous chapters, such as on Emerging Technologies and Applied Sciences. When you read the book, please do not

treat it as some mere answer to all of your questions. Instead, relish the ideas and realities which have been expressed in this work. The chapters reflect some generic notions of international law, which have been widely accepted worldwide, and at the same time, might be an attempt to compel the readers to maybe come up with a reasonable policy intervention per se. We hope the readers would have a suitable time reading this book per se. Indonesia - United States. Department of State. Office of Media Services 1963

Architecting High-Performance Embedded Systems - Jim Ledin 2021-02-05

Explore the complete process of developing systems based on field-programmable gate arrays (FPGAs), including the design of electronic circuits and the construction and debugging of prototype embedded devices Key Features Learn the basics of embedded systems and real-time operating systems Understand how

FPGAs implement processing algorithms in hardware Design, construct, and debug custom digital systems from scratch using KiCad Book Description Modern digital devices used in homes, cars, and wearables contain highly sophisticated computing capabilities composed of embedded systems that generate, receive, and process digital data streams at rates up to multiple gigabits per second. This book will show you how to use Field Programmable Gate Arrays (FPGAs) and high-speed digital circuit design to create your own cutting-edge digital systems. Architecting High-Performance Embedded Systems takes you through the fundamental concepts of embedded systems, including real-time operation and the Internet of Things (IoT), and the architecture and capabilities of the latest generation of FPGAs. Using powerful free tools for FPGA design and electronic circuit design, you'll learn how to design, build, test, and debug high-performance FPGA-based IoT devices. The book will also help

you get up to speed with embedded system design, circuit design, hardware construction, firmware development, and debugging to produce a high-performance embedded device – a network-based digital oscilloscope. You'll explore techniques such as designing four-layer printed circuit boards with high-speed differential signal pairs and assembling the board using surface-mount components. By the end of the book, you'll have a solid understanding of the concepts underlying embedded systems and FPGAs and will be able to design and construct your own sophisticated digital devices. What you will learn

Understand the fundamentals of real-time embedded systems and sensors
Discover the capabilities of FPGAs and how to use FPGA development tools
Learn the principles of digital circuit design and PCB layout with KiCad
Construct high-speed circuit board prototypes at low cost
Design and develop high-performance algorithms for FPGAs
Develop robust, reliable, and efficient firmware in

Thoroughly test and debug embedded device hardware and firmware

Who this book is for This book is for software developers, IoT engineers, and anyone who wants to understand the process of developing high-performance embedded systems. You'll also find this book useful if you want to learn about the fundamentals of FPGA development and all aspects of firmware development in C and C++.

Familiarity with the C language, digital circuits, and electronic soldering is necessary to get started.

[Entrepreneurship and Big Data](#) - Meghna Chhabra 2021-09-30

The digital age has transformed business opportunities and strategies in a resolutely practical and data-driven project universe. This book is a comprehensive and analytical source on entrepreneurship and Big Data that prospective entrepreneurs must know before embarking upon an entrepreneurial journey in this present age of digital transformation. This

book provides an overview of the various aspects of entrepreneurship, function, and contemporary forms. It covers a real-world understanding of how the entrepreneurial world works and the required new analytics thinking and computational skills. It also encompasses the essential elements needed when starting an entrepreneurial journey and offers inspirational case studies from key industry leaders. Ideal reading for aspiring entrepreneurs, Entrepreneurship and Big Data: The Digital Revolution is also useful to students, academicians, researchers, and practitioners.

Invitations to Tender for Facility Management Services - Cinzia Talamo

2018-12-17

This book deals with Invitations to Tender (ITTs) for the provision of Facility Management (FM) services. It presents a framework to support companies in preparing clear, comprehensive and effective ITTs, focusing on such key aspects as: organizational structures, tools and

procedures for managing information, allocation of information responsibilities, procedures for services monitoring and control, quality policies, and risk management. It discusses and analyzes a range of basic terms and concepts, procedures, and international standards concerning the Tendering Process, as well as the contents of ITTs, which should represent the translation of information needs into requirements related to: the client's goals, main categories of information to deal with, expected organization of information, modalities of reporting and control, and level of knowledge to be reached. A further major focus is on potential key innovation scenarios concerning current FM practice, such as Sustainable Procurement, Building Information Modeling (BIM), Big Data and Internet of Things (IoT) technologies, highlighting both the possible benefits and the possible risks and implications that could negatively affect the quality of FM service provision if not properly treated within the ITT.

The book will be of interest to real estate owners, demand organizations and facility managers, enhancing their ability to prepare, interpret and/or critically analyze ITTs.

Public Key Infrastructures, Services and Applications - Fabio Martinelli 2010-10-25

This book contains the post-proceedings of the 6th European Workshop on Public Key Services, Applications and Infrastructures, which was held at the CNR Research Area in Pisa, Italy, in September 2009. The EuroPKI workshop series focuses on all research and practice aspects of public key infrastructures, services and applications, and welcomes original research papers and excellent survey contributions from academia, government, and industry. Previous events of the series were held in: Samos, Greece (2004); Kent, UK (2005); Turin, Italy, (2006); Palma de Mallorca, Spain, (2007); and

Trondheim, Norway (2008). From the original focus on public key infrastructures, EuroPKI interests - panded to include advanced cryptographic techniques, applications and (more generally) services. The Workshops brings together researchers from the cryptographic community as well as from the applied security community, as witnessed by the interesting program. Indeed, this volume holds 18 refereed papers and the presentation paper by the invited speaker, Alexander Dent. In response to the EuroPKI 2009 call for papers, a total of 40 submissions were received. All submissions underwent a thorough blind review by at least three Program Committee members, resulting in careful selection and revision of the accepted papers. After the conference, the papers were revised and improved by the authors before inclusion in this volume.