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The Ethical Professor Computational Artifacts Visual Attributes Responsible AI Provably Correct Systems Digital Media Ethics Storing Digital Binary Data in Cellular DNA The Ethics of Artificial Intelligence Reliable Post Disaster Services over Smartphone Based DTN Financial Cryptography and Data Security. FC 2021 International Workshops The Artist in the Machine Wireless and Satellite Systems Artificial Intelligence and Soft Computing Information and Communication Technology for Competitive Strategies (ICTCS 2022) Explainable and Interpretable Models in Computer Vision and Machine Learning It's All About Coordination Neural Information Processing Leveraging Applications of Formal Methods, Verification and Validation Going Digital: Shaping Policies, Improving Lives Entwurfsprinzipien und Konstruktionskonzepte der Softwaretechnik Collaborative Computing: Networking, Applications and Worksharing Handbook of Research on Big Data Storage and Visualization Techniques Security and Quality in Cyber-Physical Systems Engineering Perspectives on the Use of New Information and Communication Technology (ICT) in the Modern Economy Between Earth and Empire Counterfeit Parts and Their Impact on the Supply Chain Computer Security – ESORICS 2023 Emerging Networking Architecture and Technologies Innovative Technologies for Market Leadership RoboCup 2018: Robot World Cup XXII Computer Security University Auditing in the Digital Era Safety and Security of Cyber-Physical Systems Computer Aided Verification Mathematical Reasoning: The History and Impact of the DReaM Group The Handbook of Organizational Rhetoric and Communication Industry 4.0 and Engineering for a Sustainable Future Electronic Government and the Information Systems Perspective Man-Machine Speech Communication Algorithms

The Ethical Professor 2018-05-15

the purpose of the ethical professor is to provide a road map to some of the ethical dilemmas that doctoral students and newer faculty members are likely to face as they enter a career in academia the academy academic career paths appear to be quite standard transparent and achievable with dedicated and hard work argued in this book however is that the road map to a successful academic career is not so easy there are ethical pitfalls along the way starting with entry into academia as a new phd student these ethical dilemmas remain equally opaque as faculty progress in their careers the ethical pitfalls that plague each of the steps along the academic career path are often not visible to doctoral students and young faculty members nor are they well prepared to spot them ethical issues are seldom discussed and little training is provided on how to spot and handle these potential road blocks to a successful career in the academy based on extant research and collective years of academic experience the ethical professor seeks to shorten the learning curve around common ethical pitfalls and issues by defining them sharing research and experiences about them and offering a discussion framework for continued learning and reflection this innovative new volume will be key reading for doctoral students and junior faculty members in social science departments in colleges and universities as well as managers undertaking an mba due to the increasing complexity of managing academic institutions more seasoned professors administrators and college deans and presidents will also benefit from the research presented here

Computational Artifacts 2018-07-11

the philosophy of computer science is concerned with issues that arise from reflection upon the nature and practice of the discipline of computer science this book presents an approach to the subject that is centered upon the notion of computational artefact it provides an analysis of the things of computer science as technical artefacts seeing them in this way enables the application of the analytical tools and concepts from the philosophy of technology to the technical artefacts of computer science with this conceptual framework the author examines some of the central philosophical concerns of computer science including the foundations of semantics the logical role of specification the nature of correctness computational ontology and abstraction formal methods computational epistemology and explanation the methodology of computer science and the nature of computation the book will be of value to philosophers and computer scientists

Visual Attributes 2017-03-21

this unique text reference provides a detailed overview of the latest advances in machine learning and computer vision related to visual attributes highlighting how this emerging field intersects with other disciplines such as computational linguistics and human machine interaction topics and features presents attribute based methods for zero shot classification learning using privileged information and methods for multi task attribute learning describes the concept of relative attributes and examines the effectiveness of modeling relative attributes in image search applications reviews state of the art methods for estimation of human attributes and describes their use in a range of different applications discusses attempts to build a vocabulary of visual attributes explores the connections between visual attributes and natural language provides contributions from an international selection of world renowned scientists covering both theoretical aspects and practical applications

Responsible AI 2021-09-13

this book is written for software product teams that use ai to add intelligent models to their products or are planning to use it as ai adoption grows it is becoming important that all ai driven products can demonstrate they are not introducing any bias to the ai based decisions they are making as well as reducing any pre existing bias or discrimination the responsibility to ensure that the ai models are ethical and make responsible decisions does not lie with the data scientists alone the product owners and the business analysts are as important in ensuring bias free ai as

the data scientists on the team this book addresses the part that these roles play in building a fair explainable and accountable model along with ensuring model and data privacy each chapter covers the fundamentals for the topic and then goes deep into the subject matter providing the details that enable the business analysts and the data scientists to implement these fundamentals ai research is one of the most active and growing areas of computer science and statistics this book includes an overview of the many techniques that draw from the research or are created by combining different research outputs some of the techniques from relevant and popular libraries are covered but deliberately not drawn very heavily from as they are already well documented and new research is likely to replace some of it

Provably Correct Systems 2017-03-01

as computers increasingly control the systems and services we depend upon within our daily lives like transport communications and the media ensuring these systems function correctly is of utmost importance this book consists of twelve chapters and one historical account that were presented at a workshop in london in 2015 marking the 25th anniversary of the european esprit basic research project procos provably correct systems the procos i and ii projects pioneered and accelerated the automation of verification techniques resulting in a wide range of applications within many trades and sectors such as aerospace electronics communications and retail the following topics are covered an historical account of the procos project hybrid systems correctness of concurrent algorithms interfaces and linking automatic verification run time assertions checking formal and semi formal methods provably correct systems provides researchers designers and engineers with a complete overview of the procos initiative past and present and explores current developments and perspectives within the field

Digital Media Ethics 2020-02-24

the original edition of this accessible and interdisciplinary textbook was the first to consider the ethical issues of digital media from a global cross cultural perspective this third edition has been thoroughly updated to incorporate the latest research and developments including the rise of big data ai and the internet of things the book s case studies and pedagogical material have also been extensively revised and updated to include such watershed events as the snowden revelations gamergate the cambridge analytica scandal privacy policy developments and the emerging chinese social credit system new sections include death online slow fair technology and material on sexbots the ethical toolkit that introduces prevailing ethical theories and their applications to the central issues of privacy copyright pornography and violence and the ethics of cross cultural communication online has likewise been revised and expanded each topic and theory are interwoven throughout the volume with detailed sets of questions additional resources and suggestions for further research and writing together these enable readers to foster careful reflection upon writing about and discussion of these issues and their possible resolutions retaining its student and classroom friendly approach digital media ethics will continue to be the go to textbook for anyone getting to grips with this important topic

Storing Digital Binary Data in Cellular DNA 2020-08-18

storing digital binary data into cellular dna demonstrates how current digital information storage systems have short longevity and limited capacity also pointing out that their production and consumption of data exceeds supply author rocky termanini explains the dna system and how it encodes vast amounts of data then presents information on the emergence of dna as a storage technology for the ever growing stream of data being produced and consumed the book will be of interest to a range of readers looking to understand this game changing technology including researchers in computer science biomedical engineers geneticists physicians clinicians law enforcement and cybersecurity experts presents a comprehensive reference on the fascinating and emerging technology of dna storage helps readers understand key concepts on how dna works as an information storage system provides readers with key information

on the technologies used to work with dna data encoding such as crispr covers emerging areas of application and ethical concern such as smart cities cybercrime and cyberwarfare includes coverage of synthesizing dna encoded data sequencing dna encoded data and fusing dna with digital immunity ecosystems die

The Ethics of Artificial Intelligence 2023-08-11

the ethics of artificial intelligence has two goals the first goal is meta theoretical and is fulfilled by part one which comprises the first three chapters an interpretation of the past chapter 1 the present chapter 2 and the future of ai chapter 3 part one develops the thesis that ai is an unprecedented divorce between agency and intelligence on this basis part two investigates the consequences of such a divorce developing the thesis that ai as a new form of agency can be harnessed ethically and unethically it begins chapter 4 by offering a unified perspective on the many principles that have been proposed to frame the ethics of ai this leads to a discussion chapter 5 of the potential risks that may undermine the application of these principles and then chapter 6 an analysis of the relation between ethical principles and legal norms and a definition of soft ethics as post compliance ethics part two continues by analysing the ethical challenges caused by the development and use of ai chapter 7 evil uses of ai chapter 8 and good practices when applying ai chapter 9 the last group of chapters focuses on the design development and deployment of ai for social good or ai4sg chapter 10 the positive and negative impacts of ai on the environment and how it can be a force for good in the fight against climate change but not without risks and costs which can and must be avoided or minimised chapter 11 and the possibility of using ai in support of the united nations sustainable development goals chapter 12 the book concludes chapter 13 by arguing in favour of a new marriage between the green of all our habitats and the blue of all our digital technologies and how this new marriage can support and develop a better society and a healthier biosphere

Reliable Post Disaster Services over Smartphone Based DTN 2019-03-28

this book proposes a framework and strategies for reliable end to end post disaster services using smartphone based delay tolerant networks which can operate even in the absence of conventional network connectivity it explores various aspects of this challenge ranging from accurate need assessment to timely need accumulation efficient resource allocation and reliable data dissemination the book offers insightful reading for all technologists and researchers working in the domain of ict based disaster management in developing countries and will help them grasp the challenges involved in providing post disaster services in an extremely difficult network scenario while also offering possible solutions the book will also benefit disaster management authorities government agencies ngos and other stakeholders helping them enhance their preparedness through the intelligent use of wireless technologies coupled with smart devices

Financial Cryptography and Data Security. FC 2021 International Workshops 2021-09-16

this book constitutes the refereed proceedings of four workshops held at the 25th international conference on financial cryptography and data security fc 2021 held virtually in march 2021 the workshops are as follows codefin the second workshop on coordination of decentralized finance defi 2021 first workshop on decentralized finance voting 2021 sixth workshop on advances in secure electronic voting wtsc 2021 fifth workshop on trusted smart contracts

The Artist in the Machine 2020-11-10

an authority on creativity introduces us to ai powered computers that are creating art literature and music that may well surpass the creations of humans today s computers are composing music that sounds more bach than bach turning

photographs into paintings in the style of van gogh s starry night and even writing screenplays but are computers truly creative or are they merely tools to be used by musicians artists and writers in this book arthur i miller takes us on a tour of creativity in the age of machines miller an authority on creativity identifies the key factors essential to the creative process from the need for introspection to the ability to discover the key problem he talks to people on the cutting edge of artificial intelligence encountering computers that mimic the brain and machines that have defeated champions in chess jeopardy and go in the central part of the book miller explores the riches of computer created art introducing us to artists and computer scientists who have among much else unleashed an artificial neural network to create a nightmarish multi eyed dog cat taught ai to imagine developed a robot that paints created algorithms for poetry and produced the world s first computer composed musical beyond the fence staged by android lloyd webber and friends but miller writes in order to be truly creative machines will need to step into the world he probes the nature of consciousness and speaks to researchers trying to develop emotions and consciousness in computers miller argues that computers can already be as creative as humans and someday will surpass us but this is not a dystopian account miller celebrates the creative possibilities of artificial intelligence in art music and literature

Wireless and Satellite Systems 2022-01-21

this book constitutes the refereed post conference proceedings of the 12th international conference on wireless and satellite services wisats 2021 held in nanjing china in september 2020 due to covid 19 pandemic the conference was held virtually the 79 full papers were carefully reviewed and selected from 140 submissions the conference s central theme is the means of using the wireless and satellite services directly to the user for personal communications multimedia and location identification the services enabled by wisats not only cover the requirements of an ordinary citizen but also provide personal and public services for global coverage communications as the applications of internet of things

Artificial Intelligence and Soft Computing 2020-10-20

the two volume set Incs 12415 and 12416 constitutes the refereed proceedings of of the 19th international conference on artificial intelligence and soft computing icaisc 2020 held in zakopane poland in october 2020 the 112 revised full papers presented were carefully reviewed and selected from 265 submissions the papers included in the first volume are organized in the following six parts neural networks and their applications fuzzy systems and their applications evolutionary algorithms and their applications pattern classification bioinformatics biometrics and medical applications artificial intelligence in modeling and simulation the papers included in the second volume are organized in the following four parts computer vision image and speech analysis data mining various problems of artificial intelligence agent systems robotics and control the conference was held virtually due to the covid 19 pandemic

Information and Communication Technology for Competitive Strategies (ICTCS 2022) 2023-06-16

this book contains best selected research papers presented at ictcs 2022 seventh international conference on information and communication technology for competitive strategies the conference will be held in chandigarh india during december 9 10 2022 the book covers state of the art as well as emerging topics pertaining to ict and effective strategies for its implementation for engineering and managerial applications this book contains papers mainly focused on ict for computation algorithms and data analytics and its security the work is presented in two volumes

Explainable and Interpretable Models in Computer Vision and Machine

Learning 2018-11-29

this book compiles leading research on the development of explainable and interpretable machine learning methods in the context of computer vision and machine learning research progress in computer vision and pattern recognition has led to a variety of modeling techniques with almost human like performance although these models have obtained astounding results they are limited in their explainability and interpretability what is the rationale behind the decision made what in the model structure explains its functioning hence while good performance is a critical required characteristic for learning machines explainability and interpretability capabilities are needed to take learning machines to the next step to include them in decision support systems involving human supervision this book written by leading international researchers addresses key topics of explainability and interpretability including the following evaluation and generalization in interpretable machine learning explanation methods in deep learning learning functional causal models with generative neural networks learning interpretable rules for multi label classification structuring neural networks for more explainable predictions generating post hoc rationales of deep visual classification decisions ensembling visual explanations explainable deep driving by visualizing causal attention interdisciplinary perspective on algorithmic job candidate search multimodal personality trait analysis for explainable modeling of job interview decisions inherent explainability pattern theory based video event interpretations

It's All About Coordination 2018-05-25

this festschrift volume has been published to celebrate the lifelong scientific achievements of farhad arbab on the occasion of his retirement from the centre of mathematics and computer science cwi over the years farhad arbab has successfully been engaged in scientific explorations in various directions software composition service oriented computing component based software concurrency theory coordination models and languages parallel and distributed computing visual programming environments constraints logic and object oriented programming farhad arbab has shaped the field of coordination models and languages his insight that it is all about exogenous coordination gave rise to the striking elegance and beauty of reo an exogenous coordination model based on a formal calculus of channel composition reo has been extremely successful and is having a great impact in many of the areas mentioned above the present volume collects a number of papers by several of farhad s close collaborators over the years

Neural Information Processing 2020-11-18

the three volume set of Incs 12532 12533 and 12534 constitutes the proceedings of the 27th international conference on neural information processing iconip 2020 held in bangkok thailand in november 2020 due to covid 19 pandemic the conference was held virtually the 187 full papers presented were carefully reviewed and selected from 618 submissions the papers address the emerging topics of theoretical research empirical studies and applications of neural information processing techniques across different domains the third volume Incs 12534 is organized in topical sections on biomedical information neural data analysis neural network models recommender systems time series analysis

Leveraging Applications of Formal Methods, Verification and Validation 2021-10-11

this book constitutes contributions of the isola 2021 associated events altogether isola 2021 comprises contributions from the proceedings originally foreseen for isola 2020 collected in 4 volumes Incs 12476 verification principles Incs 12477 engineering principles Incs 12478 applications and Incs 12479 tools and trends the contributions included in this volume were organized in the following topical sections 6th international school on tool based rigorous engineering of software systems industrial track programming what is next software verification tools rigorous engineering of collective adaptive systems

Going Digital: Shaping Policies, Improving Lives 2019-03-11

this report identifies seven policy dimensions that allow governments together with citizens firms and stakeholders to shape digital transformation to improve lives it also highlights key opportunities challenges and policies related to each dimension offers new insights evidence and analysis and provides recommendations for better policies in the digital age

Entwurfsprinzipien und Konstruktionskonzepte der Softwaretechnik

2018-01-10

dieses buch beschreibt klar strukturiert und anhand zahlreicher beispiele die wichtigsten entwurfsprinzipien für software entwurfsprinzipien sind bewährte einfache und klare denkkonzepte des software engineering die entwickeln helfen softwaresysteme zu konstruieren entwurfsprinzipien greifen in die konstruktion eines systems ein und betreffen die für den entwickler sichtbare qualität des codes eines programms dabei sind qualitätsziele für den entwurf beispielsweise die entkopplung von softwareteilen einfachheit und verständlichkeit testbarkeit oder stabilität bei programmweiterungen es gibt keine allgemein anerkannten kataloge von entwurfsprinzipien daher enthält dieses buch eine auswahl aus der praxis die zudem in der clean code bewegung eine große rolle spielt das buch eignet sich nicht nur für die praxis sondern auch als lehrbuch für studierende der informatik

Collaborative Computing: Networking, Applications and Worksharing

2019-08-18

this book constitutes the thoroughly refereed proceedings of the 15th international conference on collaborative computing networking applications and worksharing collaboratecom 2019 held in london uk in august 2019 the 40 full papers 8 short papers and 6 workshop presented were carefully reviewed and selected from 121 submissions the papers reflect the conference sessions as follows cloud iot and edge computing collaborative iot services and applications artificial intelligence software development teleportation protocol and entanglement swapping network based on the neural network scheme based on blockchain and zero knowledge proof in vehicle networking software development

Handbook of Research on Big Data Storage and Visualization Techniques

2018-01-05

the digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected information across industries challenges associated with the analysis security sharing storage and visualization of large and complex data sets continue to plague data scientists and analysts alike as traditional data processing applications struggle to adequately manage big data the handbook of research on big data storage and visualization techniques is a critical scholarly resource that explores big data analytics and technologies and their role in developing a broad understanding of issues pertaining to the use of big data in multidisciplinary fields featuring coverage on a broad range of topics such as architecture patterns programming systems and computational energy this publication is geared towards professionals researchers and students seeking current research and application topics on the subject

Security and Quality in Cyber-Physical Systems Engineering 2019-11-09

this book examines the requirements risks and solutions to improve the security and quality of complex cyber physical systems c cps such as production systems power plants and airplanes in order to ascertain whether it is

possible to protect engineering organizations against cyber threats and to ensure engineering project quality the book consists of three parts that logically build upon each other part i product engineering of complex cyber physical systems discusses the structure and behavior of engineering organizations producing complex cyber physical systems providing insights into processes and engineering activities and highlighting the requirements and border conditions for secure and high quality engineering part ii engineering quality improvement addresses quality improvements with a focus on engineering data generation exchange aggregation and use within an engineering organization and the need for proper data modeling and engineering result validation lastly part iii engineering security improvement considers security aspects concerning c cps engineering including engineering organizations security assessments and engineering data management security concepts and technologies that may be leveraged to mitigate the manipulation of engineering data as well as design and run time aspects of secure complex cyber physical systems the book is intended for several target groups it enables computer scientists to identify research issues related to the development of new methods architectures and technologies for improving quality and security in multi disciplinary engineering pushing forward the current state of the art it also allows researchers involved in the engineering of c cps to gain a better understanding of the challenges and requirements of multi disciplinary engineering that will guide them in their future research and development activities lastly it offers practicing engineers and managers with engineering backgrounds insights into the benefits and limitations of applicable methods architectures and technologies for selected use cases

Perspectives on the Use of New Information and Communication Technology (ICT) in the Modern Economy 2018-06-04

this book includes the best works presented at the scientific and practical conference that took place on february 1 2018 in pyatigorsk russia on the topic perspectives on the use of new information and communication technology ict in the modern economy the conference was organized by the institute of scientific communications volgograd russia the center for marketing initiatives stavropol russia and pyatigorsk state university pyatigorsk russia the book present the results of research on the complex new information and communication technologies in the modern economy and law as well as research that explore limits of and opportunities for their usage the target audience of this book includes undergraduates and postgraduates university lecturers experts and researchers studying various issues concerning the use of new information and communication technologies in modern economies the book includes research on the following current topics in modern economic science new challenges and opportunities for establishing information economies under the influence of scientific and technical advances digital economy as a new vector of development of the modern global economy economic and legal aspects of using new information and communication technologies in developed and developing countries priorities of using the new information and communication technologies in modern economies platforms of communication integration in tourism using new information and communication technologies and economic and legal managerial aspects and peculiarities of scientific research on the information society

Between Earth and Empire 2019-07-01

between earth and empire focuses on the crucial position of humanity at the present moment in earth history we are now in the midst of the necrocene an epoch of death and mass extinction nearing the end of the long history of empire and domination we are faced with the choice of either continuing the path of social and ecological disintegration or initiating a new era of social and ecological regeneration the book shows that conventional approaches to global crisis on both the right and the left have succumbed to processes of denial and disavowal either rejecting the reality of crisis entirely or substituting ineffectual but comforting gestures and images for deep systemic social transformation it is argued that a large scale social and ecological regeneration must be rooted in communities of liberation and solidarity fostering personal and group transformation so that a culture of awakening and care can

emerge between earth and empire explores examples of significant progress in this direction including the zapatista movement in chiapas the democratic autonomy movement in rojava indigenous movements in defense of the commons the solidarity economy movement and efforts to create liberated base communities and affinity groups within anarchism and other radical social movements in the end the book presents a vision of hope for social and ecological regeneration through the rebirth of a libertarian and communitarian social imaginary and the flourishing of a free cooperative community globally

Counterfeit Parts and Their Impact on the Supply Chain 2018-11-15

why should the supply chain be concerned if their buyers or subcontractors are purchasing counterfeit electronic parts or if their products contain counterfeit electronic parts if these parts end up in items that are safety critical and security risk sensitive such as aviation space and defense products whole secure systems can be comprised as organizations have become aware of counterfeit parts one of their responses may be to test upon acceptance or prior to receipt but testing alone may not detect all counterfeits possible sources of counterfeits include products that did not meet quality control requirements and were not destroyed overruns sold into the market place unauthorized production shifts theft and e waste the counterfeited electronic part ends up in the supply chain when ordered by an unsuspecting buyer who does not confirm the originating source of the part the second edition of counterfeit parts and their impact on the supply chain expands on the latest insights of what is really happening in the world of supply chains quality monitoring and testing counterfeiting mitigation and avoidance strategy it brings new light into the consequences of weak supply chain monitoring and how costs reliability and reputation are negatively impacted by counterfeit products and components

Computer Security – ESORICS 2023 2024-01-11

the four volume set Incs 14344 14347 constitutes the refereed proceedings of the 28th european symposium on research in computer security esorics 2023 which took place in the hague the netherlands during september 25 29 2023 the 93 full papers presented in these proceedings were carefully reviewed and selected from 478 submissions they were organized in topical sections as follows part i crypto part ii network web and internet privacy and remote part iii attacks blockchain and miscellaneous part iv machine learning software and systems security

Emerging Networking Architecture and Technologies 2023-01-31

this book constitutes refereed proceedings of the first international conference on emerging networking architecture and technologies icenat 2022 held in shenzhen china in october 2022 the 50 papers presented were thoroughly reviewed and selected from the 106 submissions the volume focuses on the latest achievements in the field of emerging network technologies covering the topics of emerging networking architecture network frontier technologies industry network applications and so on

Innovative Technologies for Market Leadership 2020-04-22

this book introduces the reader to the latest innovations in fields such as artificial intelligence systems biology or surgery and gives advice on what new technologies to consider for becoming a market leader of tomorrow companies generally acquire information on these fields from various sources such as market reports scientific literature or conference events but find it difficult to distinguish between mere hype and truly valuable innovations this book offers essential guidance in the form of structured and authoritative contributions by experts in innovative technologies spanning from biology and medicine to augmented reality and smart power grids the authors identify high potential fields and demonstrate the impact of their technologies to create economic value in real world applications they also offer business leaders advice on whether and how to implement these new technologies and

innovations in their companies or businesses chapter 13 analytic philosophy for biomedical research the imperative of applying yesterday s timeless messages to today s impasses by sepehr ehsani is available open access under a creative commons attribution 4 0 international license via link springer com

RoboCup 2018: Robot World Cup XXII 2019-08-06

this book includes the post conference proceedings of the 22nd robocup international symposium held in montreal qc canada in june 2018 the 32 full revised papers and 11 papers from the winning teams presented were carefully reviewed and selected from 51 submissions this book highlights the approaches of champion teams from the competitions and documents the proceedings of the 22nd annual robocup international symposium due to the complex research challenges set by the robocup initiative the robocup international symposium offers a unique perspective for exploring scientific and engineering principles underlying advanced robotic and ai systems

Computer Security 2018-08-06

the two volume set lncs 11098 and lncs 11099 constitutes the refereed proceedings of the 23rd european symposium on research in computer security esorics 2018 held in barcelona spain in september 2018 the 56 revised full papers presented were carefully reviewed and selected from 283 submissions the papers address issues such as software security blockchain and machine learning hardware security attacks malware and vulnerabilities protocol security privacy cps and iot security mobile security database and web security cloud security applied crypto multi party computation sdn security

University Auditing in the Digital Era 2022-04-05

this book explores how digital transformation is reshaping the manner in which higher education sectors emerge work and evolve and how auditors should respond to this challenging and risky digital audit universe in transforming the higher education system it serves to help professionals to understand the reality of performing the chief audit executive cae role in today s evolving business economy specifically in the higher education sector it compares and contrasts the stated iia standards with the challenges and realities auditors may face and provides alternative scenarios to gaining a seat at the table this book also provides insight into critical lessons learned when executing the cae role relevant for digitally transforming universities the main purpose of this study is to rethink the audit culture in the digital era and reveal the key characteristics that are open for improvement so that digitally transforming universities can be audited according to the higher education standards with a digitally supported value added audit approach based on this approach the audit culture is reassessed considering the digital university conceptual framework and business model there are two main points to consider for the digital university work environment traceability and auditability in this respect policy recommendations are made for best practices to achieve value added digital audits in transforming universities the book has been written from both the reality and academic perspectives of two experienced authors sezer is a past cae ceo and long term senior internal auditor who has worked in the internal audit role for various listed companies financial institutions and government entities erman has extensive information technology and university accreditation knowledge in the global higher education sector this brings a blend of value added approaches to the readers and speaks to issues about understanding and dealing with audit culture and business evolution in digitally transforming organizations along with the requirements for upholding iia standards geared toward the experienced or new cae university auditing in the digital era challenges and lessons for higher education professionals and caes can be a tool for all auditors to understand some of the challenges issues and potential alternative solutions when executing the role of university auditing in addition it can be a valuable reference for university administrators and cios as well as academics and all stakeholders related to the higher education sector

Safety and Security of Cyber-Physical Systems 2022-07-20

cyber physical systems cps consist of software controlled computing devices communicating with each other and interacting with the physical world through sensors and actuators because most of the functionality of a cps is implemented in software the software is of crucial importance for the safety and security of the cps this book presents principle based engineering for the development and operation of dependable software the knowledge in this book addresses organizations that want to strengthen their methodologies to build safe and secure software for mission critical cyber physical systems the book presents a successful strategy for the management of vulnerabilities threats and failures in mission critical cyber physical systems offers deep practical insight into principle based software development 62 principles are introduced and cataloged into five categories business organization general principles safety security and risk management principles provides direct guidance on architecting and operating dependable cyber physical systems for software managers and architects

Computer Aided Verification 2021-07-17

this open access two volume set lncs 12759 and 12760 constitutes the refereed proceedings of the 33rd international conference on computer aided verification cav 2021 held virtually in july 2021 the 63 full papers presented together with 16 tool papers and 5 invited papers were carefully reviewed and selected from 290 submissions the papers were organized in the following topical sections part i invited papers ai verification concurrency and blockchain hybrid and cyber physical systems security and synthesis part ii complexity and termination decision procedures and solvers hardware and model checking logical foundations and software verification this is an open access book

Mathematical Reasoning: The History and Impact of the DReaM Group 2021-11-20

this collection of essays examines the key achievements and likely developments in the area of automated reasoning in keeping with the group ethos automated reasoning is interpreted liberally spanning underpinning theory tools for reasoning argumentation explanation computational creativity and pedagogy wider applications including secure and trustworthy software and health care and emergency management the book starts with a technically oriented history of the edinburgh automated reasoning group written by alan bundy which is followed by chapters from leading researchers associated with the group mathematical reasoning the history and impact of the dream group will attract considerable interest from researchers and practitioners of automated reasoning including postgraduates it should also be of interest to those researching the history of ai

The Handbook of Organizational Rhetoric and Communication 2018-05-10

a one stop source for scholars and advanced students who want to get the latest and best overview and discussion of how organizations use rhetoric while the disciplinary study of rhetoric is alive and well there has been curiously little specific interest in the rhetoric of organizations this book seeks to remedy that omission it presents a research collection created by the insights of leading scholars on rhetoric and organizations while discussing state of the art insights from disciplines that have and will continue to use rhetoric beginning with an introduction to the topic the handbook of organizational rhetoric and communication offers coverage of the foundations and macro contexts of rhetoric as well as its use in organizational communication public relations marketing management and organization theory it then looks at intellectual and moral foundations without which rhetoric could not have occurred discussing key concepts in rhetorical theory the book then goes on to analyze the processes of rhetoric and the challenges and strategies involved a section is also devoted to discussing rhetorical areas or genres namely contextual application of rhetoric and the challenges that arise such as strategic issues for management and corporate social responsibility the final part seeks to

answer questions about the book's contribution to the understanding of organizational rhetoric it also examines what perspectives are lacking and what the future might hold for the study of organizational rhetoric examines the advantages and perils of organizations that seek to project their voices in order to shape society to their benefits contains chapters working in the tradition of rhetorical criticism that ask whether organizations rhetorical strategies have fulfilled their organizational and societal value discusses the importance of obvious traditional nuanced and critically valued strategies such as rhetorical interaction in ways that benefit discourse explores the potential risks paradoxes and requirements of engagement reflects the views of a team of scholars from across the globe features contributions from organization centered fields such as organizational communication public relations marketing management and organization theory the handbook of organizational rhetoric and communication will be an ideal resource for advanced undergraduate students graduate students and scholars studying organizational communications public relations management and rhetoric

Industry 4.0 and Engineering for a Sustainable Future *2019-04-23*

this unique volume considers the emergence of industry 4.0 i4.0 and the many ways the multifaceted field of engineering is transforming our ideas and our options around sustainability it points to emerging technological advances that are facilitating industrial process improvements to artificial intelligence's promise to help us live smartly and manage energy demand engineering for a sustainable future is an exploding area of research this book provides coverage of key case studies from industrial partners such as ericsson british telecom bt bmw matrixx and research from different uk and international institutions examines smart engineering design considers how communication technologies are developing in the age of i4.0 from 4g to 6g and beyond using interesting case studies from large manufacturers such as bmw to examine rapid prototyping and digital manufacturing covers some key issues about big data and network security and discusses blockchain provides fresh insight into artificial intelligence ai and augmented reality discusses global warming and discusses how urban heat islands are having a detrimental impact on the health and wellbeing of inhabitants in major cities provides interesting case studies to determine the industry 4.0 i4.0 readiness of eight central and eastern european countries ceecs

Electronic Government and the Information Systems Perspective *2021-09-02*

this volume lncs 12926 constitutes the papers of the 10th international conference on electronic government and the information systems perspective egovis 2021 held in september 2021 as part of the dexa 2021 conference the event was held virtually due to covid 19 pandemic the 13 full papers presented were carefully reviewed and selected from 21 submissions and focus on information systems and ict aspects of e government the papers are organized in 3 topical sections e government theoretical background and cases identity management and legal issues artificial intelligence and machine learning in e government context

Man-Machine Speech Communication *2023-05-09*

this book constitutes the refereed proceedings of the 17th national conference on man machine speech communication ncmmsc 2022 held in china in december 2022 the 21 full papers and 7 short papers included in this book were carefully reviewed and selected from 108 submissions they were organized in topical sections as follows mcpn a multiple cross perception network for real time emotion recognition in conversation baby cry recognition based on acoustic segment model mnmts2 an open source multi speaker mongolian text to speech synthesis dataset

Algorithms *2023-10-02*

algorithms technology culture politics develops a relational situated approach to algorithms it takes a middle ground between theories that give the algorithm a singular and stable meaning in using it as a central analytic category for

contemporary society and theories that dissolve the term into the details of empirical studies the book discusses algorithms in relation to hardware and material conditions code data and subjects such as users programmers but also data doubles the individual chapters bridge critical discussions on bias exclusion or responsibility with the necessary detail on the contemporary state of information technology the examples include state of the art applications of machine learning such as self driving cars and large language models such as gpt the book will be of interest for everyone engaging critically with algorithms particularly in the social sciences media studies sts political theory or philosophy with its broad scope it can serve as a high level introduction that picks up and builds on more than two decades of critical research on algorithms

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