Free read A flexible privacy preserving framework for singular value (Read Only)

presents a strategic policy framework for creating and preserving digital collections a study published by the arts and humanities data service ahds executive at king s college london in england contains recommendations about long term digital preservation standards policy framework and future research includes case studies privacy preserving data mining implies the mining of knowledge from distributed data without violating the privacy of the individual corporations involved in contributing the data this volume provides a comprehensive overview of available approaches techniques and open problems in privacy preserving data mining crystallizing much of the underlying foundation the book aims to inspire further research in this new and growing area privacy preserving data mining is intended to be accessible to industry practitioners and policy makers to help inform future decision making and legislation and to serve as a useful technical reference while traditional database software usually relies on the relational sql model a lot of alternative approaches commonly referred to as nosql short for not only sql databases occurred within the last years to meet the new requirements of the so called 2 0 services that are hard to achieve with sql based systems especially in terms of availability partition tolerance and scalability nowadays cloud storage providers widely utilize a particular sub category of nosql databases namely wide column stores for outsourcing data whether it is for backups or reducing operational co this book discusses the state of the art in privacy preserving deep learning ppdl especially as a tool for machine learning as a service mlaas which serves as an enabling technology by combining classical privacy preserving and cryptographic protocols with deep learning google and microsoft announced a major investment in ppdl in early 2019 this was followed by google s infamous announcement of private join and compute an open source ppdl tools based on secure multi party computation secure mpc and homomorphic encryption he in june of that year one of the challenging issues concerning ppdl is selecting its practical applicability despite the gap between the theory and practice in order to solve this problem it has recently been proposed that in addition to classical privacy preserving methods he secure mpc differential privacy secure enclaves new federated or split learning for ppdl should also be applied this concept involves building a cloud framework that enables collaborative learning while keeping training data on client devices this successfully preserves privacy and while allowing the framework to be implemented in the real world this book provides fundamental insights into privacy preserving and deep learning offering a comprehensive overview of the state of the art in ppdl methods it discusses practical issues and leveraging federated or split learning based ppdl covering the fundamental theory of ppdl the pros and cons of current ppdl methods and addressing the gap between theory and practice in the most recent approaches it is a valuable reference resource for a general audience undergraduate and graduate students as well as practitioners interested learning about ppdl from the scratch and researchers wanting to explore ppdl for their applications doctoral thesis accepted by carnegie mellon university usa title page with the rapid development of big data it is necessary to transfer the massive data generated by end devices to the cloud under the traditional cloud computing model however the delays caused by massive data transmission no longer meet the requirements of various real time mobile services therefore the emergence of edge computing has been recently developed as a new computing paradigm that can collect and process data at the edge of the network which brings significant convenience to solving problems such as delay bandwidth and off loading in the traditional cloud computing paradigm by extending the functions of the cloud to the edge of the network edge computing provides effective data access control computation processing and storage for end devices furthermore edge computing optimizes the seamless connection from the cloud to devices which is considered the foundation for realizing the interconnection of everything however due to the open features of edge computing such as content awareness real time computing and parallel processing the existing problems of privacy in the edge computing environment have become more prominent the access to multiple categories and large numbers of devices in edge computing also creates new privacy issues in this book we discuss on the research background and current research process of privacy protection in edge computing in the first chapter the state of the art research of edge computing are reviewed the second chapter discusses the data privacy issue and attack models in edge computing three categories of privacy preserving 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cybersecurity it discusses theories problems and solutions on the relevant ethical issues involved this work is sorely needed in a world where cybersecurity has become indispensable to protect trust and confidence in the digital infrastructure whilst respecting fundamental values like equality fairness freedom or privacy the book has a strong practical focus as it

includes case studies outlining ethical issues in cybersecurity and presenting guidelines and other measures to tackle those issues it is thus not only relevant for academics but also for practitioners in cybersecurity such as providers of security software governmental certs or chief security officers in companies advances in hardware technology have increased the capability to store and record personal data this has caused concerns that personal data may be abused this book proposes a number of techniques to perform the data mining tasks in a privacy preserving way this edited volume contains surveys by distinguished researchers in the privacy field each survey includes the key research content as well as future research directions of a particular topic in privacy the book is designed for researchers professors and advanced level students in computer science but is also suitable for practitioners in industry the use of artificial intelligence ai in data driven medicine has revolutionized healthcare presenting practitioners with unprecedented tools for diagnosis and personalized therapy however this progress comes with a critical concern the security and privacy of sensitive patient data as healthcare increasingly leans on ai the need for robust solutions to safeguard patient information has become more pressing than ever federated learning and privacy preserving in healthcare ai emerges as the definitive solution to balancing medical progress with patient data security this carefully curated volume not only outlines the challenges of federated learning but also provides a roadmap for implementing privacy preserving ai systems in healthcare by decentralizing the training of ai models federated learning mitigates the risks associated with centralizing patient data ensuring that critical information never leaves its original location aimed at healthcare professionals ai experts policymakers and academics this book not only delves into the technical aspects of federated learning but also fosters a collaborative approach to address the multifaceted challenges at the intersection of healthcare and ai recent advances in information technology have enabled public organizations and corporations to collect and store huge amounts of individuals data in data repositories such data are powerful sources of information about an individual s life such as interests activities and finances corporations can employ data mining and knowledge discovery techniques to extract useful knowledge and interesting patterns from large repositories of individuals data the extracted knowledge can be exploited to improve strategic decision making enhance business performance and improve services however person specific data often contain sensitive information about individuals and publishing such data poses potential privacy risks to deal with these privacy issues data must be anonymized so that no sensitive information about individuals can be disclosed from published data while distortion is minimized to ensure usefulness of data in practice in this thesis we address privacy concerns in publishing longitudinal data a data set is longitudinal if it contains information of the same observation or event about individuals collected at several points in time for instance the data set of multiple visits of patients of a hospital over a period of time is longitudinal due to temporal correlations among the events of each record potential background knowledge of adversaries about an individual in the context of longitudinal data has specific characteristics none of the previous anonymization techniques can effectively protect longitudinal data against an adversary with such knowledge in this thesis we identify the potential privacy threats on longitudinal data and propose a novel framework of anonymization algorithms in a way that protects individuals privacy against both identity disclosure and attribute disclosure and preserves data utility particularly we propose two privacy models k c p privacy and k c privacy and for each of these models we propose efficient algorithms for anonymizing longitudinal data an extensive experimental study demonstrates that our proposed framework can effectively and efficiently anonymize longitudinal data preserving our future today strategies and framework the objective of this book is to provide the reader with a comprehensive survey of the topic compressed sensing in information retrieval and signal detection with privacy preserving functionality without compromising the performance of the embedding in terms of accuracy or computational efficiency the reader is guided in exploring the topic by first establishing a shared knowledge about compressed sensing and how it is used nowadays then clear models and definitions for its use as a cryptosystem and a privacy preserving embedding are laid down before tackling state of the art results for both applications the reader will conclude the book having learned that the current results in terms of security of compressed techniques allow it to be a very promising solution to many practical problems of interest the book caters to a broad audience among researchers scientists or engineers with very diverse backgrounds having interests in security cryptography and privacy in information retrieval systems accompanying software is made available on the authors website to reproduce the experiments and techniques presented in the book the only background required to the reader is a good knowledge of linear algebra probability and information theory when complex it systems are being developed the usage of several programming and modelling languages can lead to inconsistencies that yield faulty designs and implementations to address this problem this work contributes a classification of consistency preservation challenges and an approach for preserving consistency it is formalized using set theory and monitors changes to avoid matching and diffing problems three new languages that follow this preservation approach are presented this book presents the proceedings of the 4th international conference of reliable information and communication technology 2019 irict 2019 which was held in pulai springs resort johor malaysia on september 22 23 2019 featuring 109 papers the book covers hot topics such as artificial intelligence and soft computing data science and big data analytics internet of things iot intelligent communication systems advances in information security advances in information systems and software engineering artificial intelligence and data mining in security frameworks written and edited by a team of experts in the field this outstanding new volume offers solutions to the problems of security outlining the concepts behind allowing computers to learn from experience and understand the world in terms of a hierarchy

of concepts with each concept defined through its relation to simpler concepts artificial intelligence ai and data mining is the fastest growing field in computer science ai and data mining algorithms and techniques are found to be useful in different areas like pattern recognition automatic threat detection automatic problem solving visual recognition fraud detection detecting developmental delay in children and many other applications however applying ai and data mining techniques or algorithms successfully in these areas needs a concerted effort fostering integrative research between experts ranging from diverse disciplines from data science to artificial intelligence successful application of security frameworks to enable meaningful cost effective personalized security service is a primary aim of engineers and researchers today however realizing this goal requires effective understanding application and amalgamation of ai and data mining and several other computing technologies to deploy such a system in an effective manner this book provides state of the art approaches of artificial intelligence and data mining in these areas it includes areas of detection prediction as well as future framework identification development building service systems and analytical aspects in all these topics applications of ai and data mining such as artificial neural networks fuzzy logic genetic algorithm and hybrid mechanisms are explained and explored this book is aimed at the modeling and performance prediction of efficient security framework systems bringing to light a new dimension in the theory and practice this groundbreaking new volume presents these topics and trends bridging the research gap on ai and data mining to enable wide scale implementation whether for the veteran engineer or the student this is a must have for any library this groundbreaking new volume clarifies the understanding of certain key mechanisms of technology helpful in the use of artificial intelligence and data mining in security frameworks covers practical approaches to the problems engineers face in working in this field focusing on the applications used every day contains numerous examples offering critical solutions to engineers and scientists presents these new applications of ai and data mining that are of prime importance to human civilization as a whole this book provides a single volume introduction to the principles strategies and practices currently applied by librarians and recordkeeping professionals to the critical issue of preservation of digital information it incorporates practice from both the recordkeeping and the library communities taking stock of current knowledge about digital preservation and describing recent and current research to provide a framework for reflecting on the issues that digital preservation raises in professional practice in russia today substantial political economic and social changes directly affect the preservation efforts of libraries and archives prepared by the deputy director general of the m i rudomino all russia state library for foreign literature in moscow this report presents a distinctly russian perspective on the ways in which libraries and archives are attempting to adapt to widespread changes while seeking to maintain their services and introduce new technologies all with decreasing financial resources russian libraries require financial support in addition to verbal support in order to put into action the plans that already exist for preserving russia s national heritage this report provides an insider s viewpoint of where preservation efforts stand in russia the report covers the following topics 1 background libraries under the soviet regime and preservation problems 2 a new political environment and its impact on preservation library laws for critical needs and coordinating functions 3 the national preservation program myth or reality 4 cooperation national and international aspects first efforts other microfilm projects and microfilm storage facilities 5 preservation challenges raising awareness management preservation centers limitations of digital technology permanent paper and training and 6 closing remarks author swc this volume constitutes the refereed proceedings of the following 9 international workshops otm academy otm industry case studies program cloud and trusted computing c tc enterprise integration interoperability and networking ei2n industrial and business applications of semantic technologies inbast information systems om distributed environment isde methods evaluation tools and applications for the creation and consumption of structured data for the e society meta4es mobile and social computing for collaborative interactions msc and ontology content ontocontent 2014 these workshops were held as associated events at otm 2014 the federated conferences on the move towards meaningful internet systems and ubiquitous computing in amantea italy in october 2014 the 56 full papers presented together with 8 short papers 6 posters and 5 keynotes were carefully reviewed and selected from a total of 96 submissions the focus of the workshops were on the following subjects models for interoperable infrastructures applications privacy and access control reliability and performance cloud and configuration management interoperability in system of systems distributed information systems applications architecture and process in distributed information system distributed information system development and operational environment ontology is use for esociety knowledge management and applications for esociety social networks and social services social and mobile intelligence and multimodal interaction and collaboration the book represents the culmination of a hugely successful heritage preservation project initiated by the government of india s department of science and technology it presents extensive research on the digital preservation of the history mythology art architecture and culture of the world heritage site hampi in karnataka the seat of the vijayanagara dynasty in medieval india further the book introduces readers to a range of techniques developed by indian technical research groups for digitally preserving both the tangible and intangible cultural heritage of the region these techniques are sufficiently generic to be applied in heritage preservation efforts for other historical sites around the world as well technological advances have made it possible to not only create digital archives of these heritage artifacts but to also share these resources for people to view explore experience and analyze this book showcases how cutting edge technology can be combined with cultural and historical research to digitize and preserve heritage it is the consolidation of work conducted under the indian digital heritage project a unique

initiative of the department of science technology dst government of india the project involved collaboration between researchers in the areas of technology computer science architecture and the humanities for the digital documentation and interpretation of india s tangible and intangible heritage it highlights the art architecture and cultural legacy of the world heritage site of hampi in karnataka the medieval capital of the 14th 16th century vijayanagara dynasty the contributors to this book are scientists and technology experts from prominent academic institutes in india such as the iits indian institutes of technology niit and nid national institute of design working in collaboration with some of india s top architects art historians anthropologists heritage groups and multi disciplinary cultural institutions such as the national institute of advanced studies nias their papers will introduce readers to cutting edge technologies from research areas such as computer vision 3d modeling and artificial intelligence as they are employed to preserve art and culture in the digital domain the book is divided into four parts part 1 details efforts and techniques for modeling and representing the tangible heritage of hampi such as the reconstruction of damaged structures realistic walk throughs and haptic rendering part 2 includes chapters detailing the analysis and digital restoration of artifacts such as mural paintings inscriptions and sculptures as well as mobile based visual search for artifacts part 3 includes chapters on conjectural re constructions of the architectural life social life and traditions of hampi lastly part 4 addresses the knowledge based archiving and exploration of cultural heritage though only a relatively recent topic of worldwide discussion and interest the concept of sustainable development traces its origins to the late eighteenth century when concern for resource conservation and environmental integrity first arose from this beginning the concern for sustainable development progressively expanded from being purely local to having a regional and national relevance and finally to being a global concern of import preserving the legacy examines this expansion while discussing several general approaches to the understanding and application of the concept of sustainability also discussed are such weighty issues as the balancing of development aspirations with environmental management in developing countries and the means by which residents in an urbanizing region in a developed country can be induced to consider sustainable development as both a goal and a limiting factor in the conversion of agricultural land offering both real world examples of sustainability issues and a forecast for the future of sustainability theory and practice this fascinating volume will prove invaluable to scholars of the environment geography and urban planning the increasing costs of creating and maintaining infrastructures for delivering services to consumers have led to the emergence of cloud based third party service providers renting networks computation power storage and even entire software application suites on the other hand service customers demand competitive pricing service level agreements and increased flexibility and scalability service consumers also expect process and data security 24 7 service availability and compliance with privacy regulations this book focuses on such challenges associated with the design implementation deployment and management of data and software as a service the 12 papers presented in this volume were contributed by leaders in academia and industry and were reviewed and supervised by an expert editorial board they describe cutting edge approaches in areas like service design service security service optimization and service migration innovative smart grid technologies this book contains selected papers presented at the 16th ifip wg 9 2 9 6 11 7 11 6 sig 9 2 2 international summer school on privacy and identity management held online in august 2021 the 9 full papers included in this volume were carefully reviewed and selected from 23 submissions also included are 2 invited keynote papers and 3 tutorial workshop summary papers as in previous years one of the goals of the ifip summer school was to encourage the publication of thorough research papers by students and emerging scholars the papers combine interdisciplinary approaches to bring together a host of perspectives such as technical legal regulatory socio economic social or societal political ethical anthropological philosophical or psychological perspectives this book discusses human computer interaction hci which is a multidisciplinary field of study which aims at developing and implementing tools and techniques to attain an effective and efficient interaction between the humans the users and computers in recent years there is an increase of interest of hci researchers and practitioners in the inclusion of gaze gestures which can greatly enhance the communication between the human user and the computer as well as other more physical communication involving all what can be learned from movements of the human body from face hand leg foot etc to the whole body movement even extending to the involvement of groups of agents even society these explicitly human centric issues in the development design analysis and implementation of the hci systems are discussed in the book a comprehensive state of the art is given complemented with original own proposals as opposed to more traditional formal and it based analyses the discussion is here more focused on relevant research results from psychology and psychophysiology and other soft cognitive etc sciences remarks on the relevance of affective computing are also mentioned this book provides a thorough overview of the evolution of privacy preserving machine learning schemes over the last ten years after discussing the importance of privacy preserving techniques in response to the diversity of internet services data services based on machine learning are now available for various applications including risk assessment and image recognition in light of open access to datasets and not fully trusted environments machine learning based applications face enormous security and privacy risks in turn it presents studies conducted to address privacy issues and a series of proposed solutions for ensuring privacy protection in machine learning tasks involving multiple parties in closing the book reviews state of the art privacy preserving techniques and examines the security threats they face this book provides a single volume introduction to the principles strategies and practices currently applied by librarians and record keepers to the preservation of digital information also included are case studies of practice from the library record keeping audiovisual archiving data

archiving and geospatial communities this book discusses the applications challenges and future trends of machine learning in medical domain including both basic and advanced topics the book presents how machine learning is helpful in smooth conduction of administrative processes in hospitals in treating infectious diseases and in personalized medical treatments the authors show how machine learning can also help make fast and more accurate disease diagnoses easily identify patients help in new types of therapies or treatments model small molecule drugs in pharmaceutical sector and help with innovations via integrated technologies such as artificial intelligence as well as deep learning the authors show how machine learning also improves the physician s and doctor s medical capabilities to better diagnosis their patients this book illustrates advanced innovative techniques frameworks concepts and methodologies of machine learning that will enhance the efficiency and effectiveness of the healthcare system provides researchers in machine and deep learning with a conceptual understanding of various methodologies of implementing the technologies in medical areas discusses the role machine learning and iot play into locating different virus and diseases across the globe such as covid 19 ebola and cervical cancer includes fundamentals and advances in machine learning in the medical field supported by significant case studies and practical applications the rapid growth and reliance on cyber systems have permeated our society government and military which is demonstrated in this book the authors discuss how ai powered cyber systems are designed to protect against cyber threats and ensure the security and reliability of digital systems using artificial intelligence ai technologies as ai becomes more integrated into various aspects of our lives the need for reliable and trustworthy ai systems becomes increasingly important this book is an introduction to all of the above mentioned areas in the context of ai embedded assurance for cyber systems this book has three themes first the ai ml for digital forensics theme focuses on developing ai and ml powered forensic tools techniques software and hardware second the ai ml for cyber physical system theme describes that ai ml plays an enabling role to boost the development of cyber physical systems cps especially in strengthening the security and privacy of cps third the ai ml for cyber analysis theme focuses on using ai ml to analyze tons of data in a timely manner and identify many complex threat patterns this book is designed for undergraduates graduate students in computer science and researchers in an interdisciplinary area of cyber forensics and ai embedded security applications it is also useful for practitioners who would like to adopt ais to solve cyber security problems cultural history enthusiasts have asserted the urgent need to protect digital information from imminent loss this book describes methodology for long term preservation of all kinds of digital documents it justifies this methodology using 20th century theory of knowledge communication and outlines the requirements and architecture for the software needed the author emphasizes attention to the perspectives and the needs of end users the 9th international conference on extending database technology edbt 2004 was held in heraklion crete greece during march 14 18 2004 the edbt series of conferences is an established and prestigious forum for the exchange of the latest research results in data management held every two years in an attractive european location the conference provides unique opp tunities for database researchers practitioners developers and users to explore new ideas techniques and tools and to exchange experiences the previous events were held in venice vienna cambridge avignon valencia konstanz and prague edbt 2004 had the theme new challenges for database technology with the goal of encouraging researchers to take a greater interest in the current exciting technological and application advancements and to devise and address new research and development directions for database technology from its early days database technology has been challenged and advanced by new uses and applications and it continues to evolve along with application requirements and hardware advances today s dbms technology faces yet several new challenges technological trends and new computation paradigms and applications such as pervasive and ubiquitous computing grid computing bioinformatics trust management virtual communities and digital asset management to name just a few require database technology to be deployed in a variety of environments and for a number of di erent purposes such an extensive deployment will also require trustworthy resilient database systems as well as easy to manage and exible ones to which we can entrust our data in whatever form they are this book presents state of the art research on security and privacy preserving for iot and 5g networks and applications the accepted book chapters covered many themes including traceability and tamper detection in iot enabled waste management networks secure healthcare iot systems data transfer accomplished by trustworthy nodes in cognitive radio ddos attack detection in vehicular ad hoc network vanet for 5g networks mobile edge cloud computing biometric authentication systems for iot applications and many other applications it aspires to provide a relevant reference for students researchers engineers and professionals working in this particular area or those interested in grasping its diverse facets and exploring the latest advances on security and privacy preserving for iot and 5g networks a thought provoking and well researched commentary on the impact of lucas v south carolina coastal council on hawaii land use policies harold s matsumoto director of planning state of hawai i startling provocative it should be read by all land developers government regulators and citizens who care about preserving paradise kent m keith president chaminade university former director of planning state of hawai i useful and succinct a needed clarion call for a more appropriate balance between regulation and pro active planning those who dislike the message that hawaii can no longer rely so heavily on regulation to preserve the islands resources and exact public benefits from developers would nevertheless be foolish to ignore it john p whalen former director department of land utilization city and county of honolulu a major contribution of this book is that it presents several alternatives to regulatory taking for preserving environmental quality while this book focuses on the hawaiian experience it offers much for planners and lawyers everywhere anthony james catanese

president and professor florida atlantic university callies has again provided a comprehensive review of hawaii s land use regulatory process he has presented his point of view that for legal and policy reasons this regulatory system will not effectively preserve what is unique and important about hawaii dan davidson executive director land use research foundation of hawaii

Privacy-preserving Framework for Context-aware Mobile Applications *2009*

presents a strategic policy framework for creating and preserving digital collections a study published by the arts and humanities data service ahds executive at king s college london in england contains recommendations about long term digital preservation standards policy framework and future research includes case studies

Strategic Policy Framework for Creating and Preserving Digital Collections *1998*

privacy preserving data mining implies the mining of knowledge from distributed data without violating the privacy of the individual corporations involved in contributing the data this volume provides a comprehensive overview of available approaches techniques and open problems in privacy preserving data mining crystallizing much of the underlying foundation the book aims to inspire further research in this new and growing area privacy preserving data mining is intended to be accessible to industry practitioners and policy makers to help inform future decision making and legislation and to serve as a useful technical reference

Structure-preserving space-time discretization in a mixed framework for multi-field problems in large strain elasticity *2019-07-31*

while traditional database software usually relies on the relational sql model a lot of alternative approaches commonly referred to as nosql short for not only sql databases occurred within the last years to meet the new requirements of the so called 2 0 services that are hard to achieve with sql based systems especially in terms of availability partition tolerance and scalability nowadays cloud storage providers widely utilize a particular sub category of nosql databases namely wide column stores for outsourcing data whether it is for backups or reducing operational co

Privacy Preserving Data Mining *2006-09-28*

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A Framework for Property-preserving Encryption in Wide Column Store Databases *2017*

doctoral thesis accepted by carnegie mellon university usa title page

2019 3rd IEEE International Conference on Cloud and Fog Computing Technologies and Applications 2019

with the rapid development of big data it is necessary to transfer the massive data generated by end devices to the cloud under the traditional cloud computing model however the delays caused by massive data transmission no longer meet the requirements of various real time mobile services therefore the emergence of edge computing has been recently developed as a new computing paradigm that can collect and process data at the edge of the network which brings significant

convenience to solving problems such as delay bandwidth and off loading in the traditional cloud computing paradigm by extending the functions of the cloud to the edge of the network edge computing provides effective data access control computation processing and storage for end devices furthermore edge computing optimizes the seamless connection from the cloud to devices which is considered the foundation for realizing the interconnection of everything however due to the open features of edge computing such as content awareness real time computing and parallel processing the existing problems of privacy in the edge computing environment have become more prominent the access to multiple categories and large numbers of devices in edge computing also creates new privacy issues in this book we discuss on the research background and current research process of privacy protection in edge computing in the first chapter the state of the art research of edge computing are reviewed the second chapter discusses the data privacy issue and attack models in edge computing three categories of privacy preserving schemes will be further introduced in the following chapters chapter three introduces the context aware privacy preserving scheme chapter four further introduces a location aware differential privacy preserving scheme chapter five presents a new blockchain based decentralized privacy preserving in edge computing chapter six summarize this monograph and propose future research directions in summary this book introduces the following techniques in edge computing 1 describe an mdp based privacy preserving model to solve context aware data privacy in the hierarchical edge computing paradigm 2 describe a sdn based clustering methods to solve the location aware privacy problems in edge computing 3 describe a novel blockchain based decentralized privacy preserving scheme in edge computing these techniques enable the rapid development of privacy preserving in edge computing

Privacy-Preserving Deep Learning *2021-07-22*

this open access book provides the first comprehensive collection of papers that provide an integrative view on cybersecurity it discusses theories problems and solutions on the relevant ethical issues involved this work is sorely needed in a world where cybersecurity has become indispensable to protect trust and confidence in the digital infrastructure whilst respecting fundamental values like equality fairness freedom or privacy the book has a strong practical focus as it includes case studies outlining ethical issues in cybersecurity and presenting guidelines and other measures to tackle those issues it is thus not only relevant for academics but also for practitioners in cybersecurity such as providers of security software governmental certs or chief security officers in companies

Privacy-Preserving Machine Learning for Speech Processing *2012-10-25*

advances in hardware technology have increased the capability to store and record personal data this has caused concerns that personal data may be abused this book proposes a number of techniques to perform the data mining tasks in a privacy preserving way this edited volume contains surveys by distinguished researchers in the privacy field each survey includes the key research content as well as future research directions of a particular topic in privacy the book is designed for researchers professors and advanced level students in computer science but is also suitable for practitioners in industry

Privacy-Preserving in Edge Computing *2021-06-01*

the use of artificial intelligence ai in data driven medicine has revolutionized healthcare presenting practitioners with unprecedented tools for diagnosis and personalized therapy however this progress comes with a critical concern the security and privacy of sensitive patient data as healthcare increasingly leans on ai the need for robust solutions to safeguard patient information has become more pressing than ever federated learning and privacy preserving in healthcare ai emerges as the definitive solution to balancing medical progress with patient data security this carefully curated volume not only outlines the challenges of federated learning but also provides a roadmap for implementing privacy preserving ai systems in healthcare by decentralizing the training of ai models federated learning mitigates the risks associated with centralizing patient data ensuring that critical information never leaves its original location aimed at healthcare professionals ai experts policymakers and academics this book not only delves into the technical aspects of federated learning but also fosters a collaborative approach to address the multifaceted challenges at the intersection of healthcare and ai

The Ethics of Cybersecurity *2020-02-10*

recent advances in information technology have enabled public organizations and corporations to collect and store huge amounts of individuals data in data repositories such data are powerful sources of information about an individual s life such as interests activities and finances corporations can employ data mining and knowledge discovery techniques to extract useful knowledge and interesting patterns from large repositories of individuals data the extracted knowledge can be exploited to

improve strategic decision making enhance business performance and improve services however person specific data often contain sensitive information about individuals and publishing such data poses potential privacy risks to deal with these privacy issues data must be anonymized so that no sensitive information about individuals can be disclosed from published data while distortion is minimized to ensure usefulness of data in practice in this thesis we address privacy concerns in publishing longitudinal data a data set is longitudinal if it contains information of the same observation or event about individuals collected at several points in time for instance the data set of multiple visits of patients of a hospital over a period of time is longitudinal due to temporal correlations among the events of each record potential background knowledge of adversaries about an individual in the context of longitudinal data has specific characteristics none of the previous anonymization techniques can effectively protect longitudinal data against an adversary with such knowledge in this thesis we identify the potential privacy threats on longitudinal data and propose a novel framework of anonymization algorithms in a way that protects individuals privacy against both identity disclosure and attribute disclosure and preserves data utility particularly we propose two privacy models k c p privacy and k c privacy and for each of these models we propose efficient algorithms for anonymizing longitudinal data an extensive experimental study demonstrates that our proposed framework can effectively and efficiently anonymize longitudinal data

Privacy-Preserving Data Mining *2008-06-10*

preserving our future today strategies and framework

Federated Learning and Privacy-Preserving in Healthcare AI *2024-05-02*

the objective of this book is to provide the reader with a comprehensive survey of the topic compressed sensing in information retrieval and signal detection with privacy preserving functionality without compromising the performance of the embedding in terms of accuracy or computational efficiency the reader is guided in exploring the topic by first establishing a shared knowledge about compressed sensing and how it is used nowadays then clear models and definitions for its use as a cryptosystem and a privacy preserving embedding are laid down before tackling state of the art results for both applications the reader will conclude the book having learned that the current results in terms of security of compressed techniques allow it to be a very promising solution to many practical problems of interest the book caters to a broad audience among researchers scientists or engineers with very diverse backgrounds having interests in security cryptography and privacy in information retrieval systems accompanying software is made available on the authors website to reproduce the experiments and techniques presented in the book the only background required to the reader is a good knowledge of linear algebra probability and information theory

A Strategic Framework for Creating and Preserving Digital Resources *1998*

when complex it systems are being developed the usage of several programming and modelling languages can lead to inconsistencies that yield faulty designs and implementations to address this problem this work contributes a classification of consistency preservation challenges and an approach for preserving consistency it is formalized using set theory and monitors changes to avoid matching and diffing problems three new languages that follow this preservation approach are presented

Towards a Privacy Preserving Framework for Publishing Longitudinal Data 2014

this book presents the proceedings of the 4th international conference of reliable information and communication technology 2019 irict 2019 which was held in pulai springs resort johor malaysia on september 22 23 2019 featuring 109 papers the book covers hot topics such as artificial intelligence and soft computing data science and big data analytics internet of things iot intelligent communication systems advances in information security advances in information systems and software engineering

Preserving Our Future Today Strategies and Framework *2018-07-16*

artificial intelligence and data mining in security frameworks written and edited by a team of experts in the field this outstanding new volume offers solutions to the problems of security outlining the concepts behind allowing computers to learn from experience and understand the world in terms of a hierarchy of concepts with each concept defined through its relation to simpler concepts artificial intelligence ai and data mining is the fastest growing field in computer science ai and data mining algorithms and techniques are found to be useful in different areas like pattern recognition automatic

threat detection automatic problem solving visual recognition fraud detection detecting developmental delay in children and many other applications however applying ai and data mining techniques or algorithms successfully in these areas needs a concerted effort fostering integrative research between experts ranging from diverse disciplines from data science to artificial intelligence successful application of security frameworks to enable meaningful cost effective personalized security service is a primary aim of engineers and researchers today however realizing this goal requires effective understanding application and amalgamation of ai and data mining and several other computing technologies to deploy such a system in an effective manner this book provides state of the art approaches of artificial intelligence and data mining in these areas it includes areas of detection prediction as well as future framework identification development building service systems and analytical aspects in all these topics applications of ai and data mining such as artificial neural networks fuzzy logic genetic algorithm and hybrid mechanisms are explained and explored this book is aimed at the modeling and performance prediction of efficient security framework systems bringing to light a new dimension in the theory and practice this groundbreaking new volume presents these topics and trends bridging the research gap on ai and data mining to enable wide scale implementation whether for the veteran engineer or the student this is a must have for any library this groundbreaking new volume clarifies the understanding of certain key mechanisms of technology helpful in the use of artificial intelligence and data mining in security frameworks covers practical approaches to the problems engineers face in working in this field focusing on the applications used every day contains numerous examples offering critical solutions to engineers and scientists presents these new applications of ai and data mining that are of prime importance to human civilization as a whole

Compressed Sensing for Privacy-Preserving Data Processing *2018-09-01*

this book provides a single volume introduction to the principles strategies and practices currently applied by librarians and recordkeeping professionals to the critical issue of preservation of digital information it incorporates practice from both the recordkeeping and the library communities taking stock of current knowledge about digital preservation and describing recent and current research to provide a framework for reflecting on the issues that digital preservation raises in professional practice

A Strategic Policy Framework for Creating and Preserving Digital Collections *1998*

in russia today substantial political economic and social changes directly affect the preservation efforts of libraries and archives prepared by the deputy director general of the m i rudomino all russia state library for foreign literature in moscow this report presents a distinctly russian perspective on the ways in which libraries and archives are attempting to adapt to widespread changes while seeking to maintain their services and introduce new technologies all with decreasing financial resources russian libraries require financial support in addition to verbal support in order to put into action the plans that already exist for preserving russia s national heritage this report provides an insider s viewpoint of where preservation efforts stand in russia the report covers the following topics 1 background libraries under the soviet regime and preservation problems 2 a new political environment and its impact on preservation library laws for critical needs and coordinating functions 3 the national preservation program myth or reality 4 cooperation national and international aspects first efforts other microfilm projects and microfilm storage facilities 5 preservation challenges raising awareness management preservation centers limitations of digital technology permanent paper and training and 6 closing remarks author swc

Specification Languages for Preserving Consistency between Models of Different Languages *2019-01-30*

this volume constitutes the refereed proceedings of the following 9 international workshops otm academy otm industry case studies program cloud and trusted computing c tc enterprise integration interoperability and networking ei2n industrial and business applications of semantic technologies inbast information systems om distributed environment isde methods evaluation tools and applications for the creation and consumption of structured data for the e society meta4es mobile and social computing for collaborative interactions msc and ontology content ontocontent 2014 these workshops were held as associated events at otm 2014 the federated conferences on the move towards meaningful internet systems and ubiquitous computing in amantea italy in october 2014 the 56 full papers presented together with 8 short papers 6 posters and 5 keynotes were carefully reviewed and selected from a total of 96 submissions the focus of the workshops were on the following subjects models for interoperable infrastructures applications privacy and access control reliability and performance cloud and configuration management interoperability in system of systems distributed

information systems applications architecture and process in distributed information system distributed information system development and operational environment ontology is use for esociety knowledge management and applications for esociety social networks and social services social and mobile intelligence and multimodal interaction and collaboration

Emerging Trends in Intelligent Computing and Informatics *2019-11-01*

the book represents the culmination of a hugely successful heritage preservation project initiated by the government of india s department of science and technology it presents extensive research on the digital preservation of the history mythology art architecture and culture of the world heritage site hampi in karnataka the seat of the vijayanagara dynasty in medieval india further the book introduces readers to a range of techniques developed by indian technical research groups for digitally preserving both the tangible and intangible cultural heritage of the region these techniques are sufficiently generic to be applied in heritage preservation efforts for other historical sites around the world as well technological advances have made it possible to not only create digital archives of these heritage artifacts but to also share these resources for people to view explore experience and analyze this book showcases how cutting edge technology can be combined with cultural and historical research to digitize and preserve heritage it is the consolidation of work conducted under the indian digital heritage project a unique initiative of the department of science technology dst government of india the project involved collaboration between researchers in the areas of technology computer science architecture and the humanities for the digital documentation and interpretation of india s tangible and intangible heritage it highlights the art architecture and cultural legacy of the world heritage site of hampi in karnataka the medieval capital of the 14th 16th century vijayanagara dynasty the contributors to this book are scientists and technology experts from prominent academic institutes in india such as the iits indian institutes of technology niit and nid national institute of design working in collaboration with some of india s top architects art historians anthropologists heritage groups and multi disciplinary cultural institutions such as the national institute of advanced studies nias their papers will introduce readers to cutting edge technologies from research areas such as computer vision 3d modeling and artificial intelligence as they are employed to preserve art and culture in the digital domain the book is divided into four parts part 1 details efforts and techniques for modeling and representing the tangible heritage of hampi such as the reconstruction of damaged structures realistic walk throughs and haptic rendering part 2 includes chapters detailing the analysis and digital restoration of artifacts such as mural paintings inscriptions and sculptures as well as mobile based visual search for artifacts part 3 includes chapters on conjectural re constructions of the architectural life social life and traditions of hampi lastly part 4 addresses the knowledge based archiving and exploration of cultural heritage

Artificial Intelligence and Data Mining Approaches in Security Frameworks 2021-08-24

though only a relatively recent topic of worldwide discussion and interest the concept of sustainable development traces its origins to the late eighteenth century when concern for resource conservation and environmental integrity first arose from this beginning the concern for sustainable development progressively expanded from being purely local to having a regional and national relevance and finally to being a global concern of import preserving the legacy examines this expansion while discussing several general approaches to the understanding and application of the concept of sustainability also discussed are such weighty issues as the balancing of development aspirations with environmental management in developing countries and the means by which residents in an urbanizing region in a developed country can be induced to consider sustainable development as both a goal and a limiting factor in the conversion of agricultural land offering both real world examples of sustainability issues and a forecast for the future of sustainability theory and practice this fascinating volume will prove invaluable to scholars of the environment geography and urban planning

Preserving Digital Materials *2011-11-30*

the increasing costs of creating and maintaining infrastructures for delivering services to consumers have led to the emergence of cloud based third party service providers renting networks computation power storage and even entire software application suites on the other hand service customers demand competitive pricing service level agreements and increased flexibility and scalability service consumers also expect process and data security 24 7 service availability and compliance with privacy regulations this book focuses on such challenges associated with the design implementation deployment and management of data and software as a service the 12 papers presented in this volume were contributed by leaders in academia and industry and were reviewed and supervised by an expert editorial board they describe cutting edge approaches in areas like service design service security service optimization and service migration

SGML as a Framework for Digital Preservation and Access *1997*

innovative smart grid technologies

On the Move to Meaningful Internet Systems: OTM 2014 Workshops *2014-10-18*

this book contains selected papers presented at the 16th ifip wg 9 2 9 6 11 7 11 6 sig 9 2 2 international summer school on privacy and identity management held online in august 2021 the 9 full papers included in this volume were carefully reviewed and selected from 23 submissions also included are 2 invited keynote papers and 3 tutorial workshop summary papers as in previous years one of the goals of the ifip summer school was to encourage the publication of thorough research papers by students and emerging scholars the papers combine interdisciplinary approaches to bring together a host of perspectives such as technical legal regulatory socio economic social or societal political ethical anthropological philosophical or psychological perspectives

Decentralized Privacy Preservation in Smart Cities 2018-03-31

this book discusses human computer interaction hci which is a multidisciplinary field of study which aims at developing and implementing tools and techniques to attain an effective and efficient interaction between the humans the users and computers in recent years there is an increase of interest of hci researchers and practitioners in the inclusion of gaze gestures which can greatly enhance the communication between the human user and the computer as well as other more physical communication involving all what can be learned from movements of the human body from face hand leg foot etc to the whole body movement even extending to the involvement of groups of agents even society these explicitly human centric issues in the development design analysis and implementation of the hci systems are discussed in the book a comprehensive state of the art is given complemented with original own proposals as opposed to more traditional formal and it based analyses the discussion is here more focused on relevant research results from psychology and psychophysiology and other soft cognitive etc sciences remarks on the relevance of affective computing are also mentioned

Information management challenges in managing and preserving electronic records. *1999*

this book provides a thorough overview of the evolution of privacy preserving machine learning schemes over the last ten years after discussing the importance of privacy preserving techniques in response to the diversity of internet services data services based on machine learning are now available for various applications including risk assessment and image recognition in light of open access to datasets and not fully trusted environments machine learning based applications face enormous security and privacy risks in turn it presents studies conducted to address privacy issues and a series of proposed solutions for ensuring privacy protection in machine learning tasks involving multiple parties in closing the book reviews state of the art privacy preserving techniques and examines the security threats they face

Digital Hampi: Preserving Indian Cultural Heritage *2011-01-28*

this book provides a single volume introduction to the principles strategies and practices currently applied by librarians and record keepers to the preservation of digital information also included are case studies of practice from the library record keeping audiovisual archiving data archiving and geospatial communities

Preserving the Legacy *2020-02-17*

this book discusses the applications challenges and future trends of machine learning in medical domain including both basic and advanced topics the book presents how machine learning is helpful in smooth conduction of administrative processes in hospitals in treating infectious diseases and in personalized medical treatments the authors show how machine learning can also help make fast and more accurate disease diagnoses easily identify patients help in new types of therapies or treatments model small molecule drugs in pharmaceutical sector and help with innovations via integrated technologies such as artificial intelligence as well as deep learning the authors show how machine learning also improves the physician s and doctor s medical capabilities to better diagnosis their patients this book illustrates advanced innovative techniques frameworks concepts and methodologies

of machine learning that will enhance the efficiency and effectiveness of the healthcare system provides researchers in machine and deep learning with a conceptual understanding of various methodologies of implementing the technologies in medical areas discusses the role machine learning and iot play into locating different virus and diseases across the globe such as covid 19 ebola and cervical cancer includes fundamentals and advances in machine learning in the medical field supported by significant case studies and practical applications

New Frontiers in Information and Software as Services *2022-03-30*

the rapid growth and reliance on cyber systems have permeated our society government and military which is demonstrated in this book the authors discuss how ai powered cyber systems are designed to protect against cyber threats and ensure the security and reliability of digital systems using artificial intelligence ai technologies as ai becomes more integrated into various aspects of our lives the need for reliable and trustworthy ai systems becomes increasingly important this book is an introduction to all of the above mentioned areas in the context of ai embedded assurance for cyber systems this book has three themes first the ai ml for digital forensics theme focuses on developing ai and ml powered forensic tools techniques software and hardware second the ai ml for cyber physical system theme describes that ai ml plays an enabling role to boost the development of cyber physical systems cps especially in strengthening the security and privacy of cps third the ai ml for cyber analysis theme focuses on using ai ml to analyze tons of data in a timely manner and identify many complex threat patterns this book is designed for undergraduates graduate students in computer science and researchers in an interdisciplinary area of cyber forensics and ai embedded security applications it is also useful for practitioners who would like to adopt ais to solve cyber security problems

2020 IEEE Power and Energy Society Innovative Smart Grid Technologies Conference (ISGT) *2021-12-01*

cultural history enthusiasts have asserted the urgent need to protect digital information from imminent loss this book describes methodology for long term preservation of all kinds of digital documents it justifies this methodology using 20th century theory of knowledge communication and outlines the requirements and architecture for the software needed the author emphasizes attention to the perspectives and the needs of end users

Privacy and Identity Management. Between Data Protection and Security 2022-03-14

the 9th international conference on extending database technology edbt 2004 was held in heraklion crete greece during march 14 18 2004 the edbt series of conferences is an established and prestigious forum for the exchange of the latest research results in data management held every two years in an attractive european location the conference provides unique opp tunities for database researchers practitioners developers and users to explore new ideas techniques and tools and to exchange experiences the previous events were held in venice vienna cambridge avignon valencia konstanz and prague edbt 2004 had the theme new challenges for database technology with the goal of encouraging researchers to take a greater interest in the current exciting technological and application advancements and to devise and address new research and development directions for database technology from its early days database technology has been challenged and advanced by new uses and applications and it continues to evolve along with application requirements and hardware advances today s dbms technology faces yet several new challenges technological trends and new computation paradigms and applications such as pervasive and ubiquitous computing grid computing bioinformatics trust management virtual communities and digital asset management to name just a few require database technology to be deployed in a variety of environments and for a number of di erent purposes such an extensive deployment will also require trustworthy resilient database systems as well as easy to manage and exible ones to which we can entrust our data in whatever form they are

Human Movements in Human-Computer Interaction (HCI) *2008-12-18*

this book presents state of the art research on security and privacy preserving for iot and 5g networks and applications the accepted book chapters covered many themes including traceability and tamper detection in iot enabled waste management networks secure healthcare iot systems data transfer accomplished by trustworthy nodes in cognitive radio ddos attack detection in vehicular ad hoc network vanet for 5g networks mobile edge cloud computing biometric authentication systems for iot applications and many other applications it aspires to provide a relevant reference for students researchers engineers and professionals working in this particular area or those interested in grasping its diverse facets and exploring the latest advances on security and privacy preserving for iot and 5g

networks

Privacy-Preserving Machine Learning *2022-02-03*

a thought provoking and well researched commentary on the impact of lucas v south carolina coastal council on hawaii land use policies harold s matsumoto director of planning state of hawai i startling provocative it should be read by all land developers government regulators and citizens who care about preserving paradise kent m keith president chaminade university former director of planning state of hawai i useful and succinct a needed clarion call for a more appropriate balance between regulation and pro active planning those who dislike the message that hawaii can no longer rely so heavily on regulation to preserve the islands resources and exact public benefits from developers would nevertheless be foolish to ignore it john p whalen former director department of land utilization city and county of honolulu a major contribution of this book is that it presents several alternatives to regulatory taking for preserving environmental quality while this book focuses on the hawaiian experience it offers much for planners and lawyers everywhere anthony james catanese president and professor florida atlantic university callies has again provided a comprehensive review of hawaii s land use regulatory process he has presented his point of view that for legal and policy reasons this regulatory system will not effectively preserve what is unique and important about hawaii dan davidson executive director land use research foundation of hawaii

Preserving Digital Materials *2024-01-13*

Machine Learning for Critical Internet of Medical Things 2007

AI Embedded Assurance for Cyber Systems *2007-03-21*

Creating and Preserving Digital Records in Government, Science, and the Arts 2004-02-12

Preserving Digital Information *2021-10-09*

Advances in Database Technology - EDBT 2004 1994-01-01

Security and Privacy Preserving for IoT and 5G Networks

Preserving Paradise

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