Essay Information Security

Information SecurityProceedings of 2nd International Conference on Smart Computing and Cyber SecurityThree Essays on Behavioral Aspects of Information SystemsThe CQ Press Writing Guide for Public PolicyInformation Security in OrganizationsLegal Reasoning, Research, and Writing for International ...Essays on Information Security Practices in OrganizationsWriting Information Security PoliciesCISM Certified Information Security Manager Bundle, Second EditionTHREE ESSAYS ON THE ECONOMICS OF INFORMATION SECURITYEssays, Critical and MiscellaneousThree Essays on Information Technology Security Management in OrganizationsInformation Security (1995)Proposal WritingReport of the Canadian Pacific Railway Royal CommissionReport of the Canadian Pacific Railway Royal CommissionPsychological Report WritingGetting and Writing NewsCongressional RecordAmerican Aviation Marshall D. Abrams Prasant Kumar Pattnaik Sangmi Chai Andrew Pennock Dmitry Zhdanov Tejaswini Herath Scott Barman Peter H. Gregory Leting Zhang Thomas Babington Macaulay Baron Macaulay Manish Gupta Marshall D. Abrams William S. Pfeiffer Canada. Royal Commission to Inquire into Matters Connected with the Canadian Pacific Railway Joseph William Hollis Dix Harwood

motivation understanding and working security issues database security

this book presents high quality research papers presented at the second international conference on smart computing and cyber security strategic foresight security challenges and innovation smartcyber 2021 held during june 16 17 2021 in the

department of smart computing kyungdong university global campus south korea the book includes selected works from academics and industrial experts in the field of computer science information technology and electronics and telecommunication the content addresses challenges of cyber security

in the information age it is important to investigate information systems in relationship to society in general and various user groups in particular since information technology requires interactions between people and their social structure research in information system usage behavior needs to be based on a deep understanding of the interrelation between the technology and the social environment of the user this dissertation adopts a socio technical approach in order to better explore the role of information technology in the important research issues of online privacy and information assurance this dissertation consists of three essays the first essay investigates factors that affect the career decisions of cyber security scholars in the recent past cyber security has become a critical area in the information technology it field and the demand for such professionals has been increasing tremendously however there is a shortage of qualified personnel which is a factor that contributes greatly to the society s vulnerability to various cyber threats to date there is no academic extent research regarding the cyber security workforce and their career decisions based on the theories of planned behavior and self efficacy our study articulates a model to explain career selection behavior in the cyber security field to provide validity for the proposed conceptual framework we undertook a comprehensive empirical investigation of scholarship for service sfs scholars who are funded by the national science foundation and who are studying information assurance and computer security in universities the results of this research have implications for retaining a qualified workforce in the computer and information security fields the second essay explores internet users online privacy protection behavior information security and privacy on the internet are critical issues in our society in this research factors that influence internet users private information sharing behavior were examined based on a survey of two of the most vulnerable groups on the web 285 pre and early teens this essay provides a research framework that explains in the private information sharing behavior of internet users according to our study results internet users information privacy behaviors are affected by two significant factors the perceived importance of information privacy and information privacy self efficacy it was also found that users belief in the value of online information privacy and information privacy protection behavior varies by gender our research findings indicate that educational opportunities regarding internet privacy and computer security as well as concerns from other reference groups e g peers teachers and parents play an important role in positively affecting internet users protective behavior toward online privacy the third essay investigates knowledge sharing in the context of blogs in the information age web 2 0 technology is receiving growing attention as an innovative way to share information and knowledge this study articulates a model which enables the understanding of bloggers knowledge sharing practices it identifies and describes the factors affecting their knowledge sharing behavior in online social networks the analysis of 446 surveys indicates that bloggers trust strength of social ties and reciprocity all have a positive

impact on their knowledge sharing practices their online information privacy concerns on the other hand have a negative impact on their knowledge sharing behavior more importantly the amount of impact for each factor in knowledge sharing behavior varies by gender the research results contribute toward an understanding of the successful deployment of web 2 0 technologies as knowledge management systems and provide useful insights into understanding bloggers knowledge sharing practices in online communities

the cq press writing guide for public policy second edition is loaded with rich real world examples that help students master the process of translating insightful policy analysis into clear policy recommendations known for his conversational writing style author andrew pennock offers step by step instructions on how to write for a variety of genres including policy memos briefs op eds press releases written testimony social media and emails in a style that policy makers expect focusing on an audience centered approach the second edition of this award winning book helps students learn how to create and organize an argument based on the unique needs and expectations of policy makers the book also covers the nuts and bolts of how to write for a policy audience in specific genres with special consideration of ethics and working with visual and technical material the second edition features updated examples and a new chapter on writing for public speaking winner of the 2019 textbook excellence award texty from the textbook academic authors association taa

organizational employee information security behaviors have received attention in its potential role in cyber security recently practitioners and academics alike have emphasized the need to evaluate end user computer security behaviors in order to develop more secured information infrastructures this dissertation evaluates the information security behaviors pertaining to employee security policy compliance from three different aspects with the objective of providing guidelines and implications for better design development and implementation of information security policies in organizations the dissertation consists of three inter related essays following a manuscript based multi essay style thesis format the first essay evaluates the relative importance of the incentive mechanisms this essay develops and tests a theoretical model that enhances our understanding of the incentive effects of penalties pressures and perceived effectiveness in employee compliance to information security policies the findings suggest that security behaviors can be influenced by both intrinsic and extrinsic motivators the results indicate that a intrinsic motivation of employee perceived effectiveness of their actions plays a major role in security policy compliance b pressures exerted by subjective norms and peer behaviors influence the employee behaviors and c certainty of detection is found to influence security behaviors while surprisingly severity of punishment was found to have negative effect on policy compliance intentions in the second essay informed by the literature on information security is adoption protection motivation theory deterrence theory and organizational behavior theories under an umbrella of taylor todd s decomposed theory of planned behavior an integrated protection motivation and deterrence model of security policy compliance is developed

the essay also investigates the role of organizational commitment on employee security compliance intentions the results suggest that a perceptions about the severity of breach and response efficacy are likely to affect compliance intentions by shaping attitudes b organizational commitment and social influence have a significant impact on compliance intentions and c resource availability is a significant factor in enhancing self efficacy which in turn is a significant predictor of policy compliance intentions the results indicate that employees in our sample underestimate the probability of security breaches in the third essay we investigate whether the synchronization between management and employee perceptions about security values plays a role in employee security behaviors much of the information security literature has emphasized the mechanisms such as training and awareness and policy enforcement for creating security conscious environment for better security management however empirical research evaluating the effectiveness of these mechanisms in it security is almost non existent moreover researchers have argued that if there is a misalignment between individual and organizational goals there is a greater security threat to information security in this context the third essay explores several aspects of policy compliance in organizations using a dyadic approach in an individual level model we focus on employee perception of security climate and its relation with the policy compliance behavior and the role training and awareness and policy enforcement play in shaping the security climate perceptions of the employees in addition we propose a multi level theoretical framework that considers the role of the management and employee perception alignment on the employee compliance behavior using a matched responses dataset we empirically assess the two models our findings suggest that individual employee policy compliance intentions are predicted by their security climate perceptions which in turn were highly associated with the employee perceived training and awareness as well as policy enforcement efforts in their organization in the test of multi level model we found that employee policy compliance intentions are mainly driven by personally held beliefs multiple surveys were administered to various sample groups in this research program in order to accomplish the research objectives of the three essays a dyadic investigation approach was undertaken to understand the security policy compliance from a holistic view which resulted in a set of interesting and insightful findings with implications to both theory and practice

administrators more technically savvy than their managers have started to secure the networks in a way they see as appropriate when management catches up to the notion that security is important system administrators have already altered the goals and business practices although they may be grateful to these people for keeping the network secure their efforts do not account for all assets and business requirements finally someone decides it is time to write a security policy management is told of the necessity of the policy document and they support its development a manager or administrator is assigned to the task and told to come up with something and fast once security policies are written they must be treated as living documents as technology and business requirements change the policy must be updated to reflect the new environment at least one review per year additionally policies must include provisions for security awareness

and enforcement while not impeding corporate goals this book serves as a guide to writing and maintaining these all important security policies

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in recent years information security has been gaining increasing public attention and has become a high priority for organizations across various industries despite the substantial investment in improving security posture cyber risks continue to escalate as digital transformations are growing rapidly and new areas of cyber vulnerability are exposed and exploited thus a critical question for managers stakeholders and policymakers is how to strategically ensure the security of digital assets to explore the question my dissertation explores and advances three critical themes in the economics of the information security field these themes include 1 unraveling antecedents of risks 2 determining the optimal level of investment in cybersecurity and 3 investigating how cybersecurity affects market dynamics essay 1 is motivated by security concerns in sharing data across organizations and empirically evaluates the impact of joining a health information exchange hie initiative on a hospital s data breach risks and corresponding mechanisms essay 2 uses a game theoretical model to investigate how to design a cost effective crowdsourcing solution to help organizations leverage crowds wisdom in vulnerability management essay 3 examines the role of peer cyber incidents in information asymmetry issues in the financial market and analyze how peer data breaches affect the quality of a firm s cyber risk disclosure in its financial report the dissertation sheds light on three crucial factors in information security management information systems interdependency innovated cybersecurity solutions and cyber information asymmetry

abstractincreasing complexity and sophistication of ever evolving information technologies has spurred unique and unprecedented challenges for organizations to protect their information assets companies suffer significant financial and reputational damage due to ineffective information technology security management which has

extensively been shown to severely impact firm s performance and their market valuation the dissertation comprises of three essays that address strategic and operational issues that organizations face in managing efficient and secure information technology environment as organizations increasingly operate compete and cooperate in a global context business processes are also becoming global to generate benefits from coordination and standardization across geographical boundaries in this context security has gained significance due to increased threats legislation and compliance issues the first essay presents a framework for assessing the security of internet technology components that support a globally distributed workplace the framework uses component analysis to examine various aspects of a globally distributed system the technology components access channels architecture and threats using a combination of scenarios architectures and technologies the paper presents the framework as a development tool for information security officers to evaluate the security posture of an information system the management and planning of large complex deployments are inherently difficult and time consuming which are also widely evidenced to have unusually high failure rates the second essay develops a risk aware cost model to aid companies to transition to having a single sign on system using a multi phase pattern of software implementation the integer programming based optimization model provides guidance on the software that should be implemented in each phase taking risk and budgetary constraints into account the model provides a cost optimal path to migrating to a single sign on system while taking into account individual application characteristics as well as different learning aspects of organizational system implementation the model can be used by managers and professionals in architecting their own software deployment plans in multiple stages to address resource constraint issues such as manpower and budget while also effectively managing risks the results of the model show significant cost benefits and effective risk management strategies this will help organizations from an operational and tactical perspective during implementation of a distributed software system there has been a tremendous increase in frequency and economic impact potential of security breaches numerous studies have shown that there is significant negative impact on market valuation of the firm that suffered security breach extensive literature review reveals that studies have not examined companies response to security breaches in terms of media announcements about security initiatives and improvements the third essay investigates whether security breaches lead to announcements of security investments improvements by the affected companies and the market reaction to these announcements in addition the essay also explores a how announcements of remediation and or of positive investments or improvements in security relate to security breach announcements b effective timing strategies to respond and to release announcements relating to security improvements initiatives to maximize the favorable impact and c the effect of security breach announcements on competitor s market valuation and d impact of announcements content on stock price the results of the research indicate that there is positive significant market reaction to announcements regarding security improvements made by companies that had a security breach incident the study also reveals that impact on stock price of competitors is moderated by their industry the research used event studies and time series analyses to uncover how timing

impacts the stock performance of companies making positive security related announcements in news media in an attempt to restore image and reputation after a security breach the results reveal that timing of the announcement after a breach significantly influences the impact on stock prices

provides an overview of the vulnerabilities and threats to info security and introduces important concepts and terms summarizes the definitions and controls of the trusted computer system evaluation criteria and discusses info security policy focusing on info control and dissemination also discusses such topics as the the architectures used in the development of trusted relational database mgmt systems the effects that multilevel dbms security requirements can have on the system s data integrity a new approach to formal modeling of a trusted computer system and a new security model for mandatory access controls in object oriented database systems

this book provides readers with an overview of proposal writing today along with the issues that influence the resources and methods used to develop them a focus on the real world of business presents further insight and guidance in acquiring the basic skills and some advanced in creating any type of proposal chapter topics include marketing strategy writing graphics sales letters and the executive summary formal and informal documents reviews and editing for the skilled professionals already in this field affecting the bottom line profit of their companies seeking additional training or a valuable reference for producing persuasive and winning proposals

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