

## Mechanics Of User Identification And Authentication Fundamentals Of Identity Management Hardcover 2007 Author Dobromir Todorov

The 21st century has seen a number of advancements in technology, including the use of high performance computing. Computing resources are being used by the science and economy fields for data processing, simulation, and modeling. These innovations aid in the support of production, logistics, and mobility processes. Integrated Information and Computing Systems for Natural, Spatial, and Social Sciences covers a carefully selected spectrum of the most up to date issues, revealing the benefits, dynamism, potential, and challenges of information and computing system application scenarios and components from a wide spectrum of prominent disciplines. This comprehensive collection offers important guidance on the development stage of the universal solution to information and computing systems for researchers as well as industry decision makers and developers.

Expanded into two volumes, the Second Edition of Springer's Encyclopedia of Cryptography and Security brings the latest and most comprehensive coverage of the topic: Definitive information on cryptography and information security from highly regarded researchers Effective tool for professionals in many fields and researchers of all levels Extensive resource with more than 700 contributions in Second Edition 5643 references, more than twice the number of references that appear in the First Edition With over 300 new entries, appearing in an A-Z format, the Encyclopedia of Cryptography and Security provides easy, intuitive access to information on all aspects of cryptography and security. As a critical enhancement to the First Edition's base of 464 entries, the information in the Encyclopedia is relevant for researchers and professionals alike. Topics for this comprehensive reference were elected, written, and peer-reviewed by a pool of distinguished researchers in the field. The Second Edition's editorial board now includes 34 scholars, which was expanded from 18 members in the First Edition. Representing the work of researchers from over 30 countries, the Encyclopedia is broad in scope, covering everything from authentication and identification to quantum cryptography and web security. The text's practical style is instructional, yet fosters investigation. Each area presents concepts, designs, and specific implementations. The highly-structured essays in this work include synonyms, a definition and discussion of the topic, bibliographies, and links to related literature. Extensive cross-references to other entries within the Encyclopedia support efficient, user-friendly searches for immediate access to relevant information. Key concepts presented in the Encyclopedia of Cryptography and Security include: Authentication and identification; Block ciphers and stream ciphers; Computational issues; Copy protection; Cryptanalysis and security; Cryptographic protocols; Electronic payment and digital certificates; Elliptic curve cryptography; Factorization algorithms and primality tests; Hash functions and MACs; Historical systems; Identity-based cryptography; Implementation aspects for smart cards and standards; Key management; Multiparty computations like voting schemes; Public key cryptography; Quantum cryptography; Secret sharing schemes; Sequences; Web Security. Topics covered: Data Structures, Cryptography and Information Theory; Data Encryption; Coding and Information Theory; Appl.Mathematics/Computational Methods of Engineering; Applications of Mathematics; Complexity. This authoritative reference will be published in two formats: print and online. The online edition features hyperlinks to cross-references, in addition to significant research.

Over the last decade, there has been a growing interest in human behavior analysis, motivated by societal needs such as security, natural interfaces, affective computing, and assisted living. However, the accurate and non-invasive detection and recognition of human behavior remain major challenges and the focus of many research efforts. Traditionally, in order to identify human behavior, it is first necessary to continuously collect the readings of physical sensing devices (e.g., camera, GPS, and RFID), which can be worn on human bodies, attached to objects, or deployed in the environment. Afterwards, using recognition algorithms or classification models, the behavior types can be identified so as to facilitate advanced applications. Although such traditional approaches deliver satisfactory performance and are still widely used, most of them are intrusive and require specific sensing devices, raising issues such as privacy and deployment costs. In this book, we will present our latest findings on non-invasive sensing and understanding of human behavior. Specifically, this book differs from existing literature in the following senses. Firstly, we focus on approaches that are based on non-invasive sensing technologies, including both sensor-based and device-free variants. Secondly, while most existing studies examine individual behaviors, we will systematically elaborate on how to understand human behaviors of various granularities, including not only individual-level but also group-level and community-level behaviors. Lastly, we will discuss the most important scientific problems and open issues involved in human behavior analysis.

Welcome to the proceedings of the 2010 International Conferences on Security Technology (SecTech 2010), and Disaster Recovery and Business Continuity (DRBC 2010) – two of the partnering events of the Second International Mega-Conference on Future Generation Information Technology (FGIT 2010). SecTech and DRBC bring together researchers from academia and industry as well as practitioners to share ideas, problems and solutions relating to the multifaceted aspects of security and disaster recovery methodologies, including their links to computational sciences, mathematics and information technology. In total, 1,630 papers were submitted to FGIT 2010 from 30 countries, which includes 250 papers submitted to SecTech/DRBC 2010. The submitted papers went through a rigorous reviewing process: 395 of the 1,630 papers were accepted for FGIT 2010, while 57 papers were accepted for SecTech/DRBC 2010. Of the 250 papers 10 were selected for the special FGIT 2010 volume published by Springer in the LNCS series. 34 papers are published in this volume, and 13 papers were withdrawn due to technical reasons. We would like to acknowledge the great effort of the SecTech/DRBC 2010 International Advisory Boards and members of the International Program Committees, as well as all the organizations and individuals who supported the idea of publishing this volume of proceedings, including SERSC and Springer. Also, the success of these two conferences would not have been possible without the huge support from our sponsors and the work of the Chairs and Organizing Committee.

The classic and authoritative reference in the field of computer security, now completely updated and revised With the continued presence of large-scale computers; the proliferation of desktop, laptop, and handheld computers; and the vast international networks that interconnect them, the nature and extent of threats to computer security have grown enormously. Now in its fifth edition, Computer Security Handbook continues to provide authoritative guidance to identify and to eliminate these threats where possible, as well as to lessen any losses attributable to them. With seventy-seven chapters contributed by a panel of renowned industry professionals, the new edition has increased coverage in both breadth and depth of all ten domains of the

Common Body of Knowledge defined by the International Information Systems Security Certification Consortium (ISC). Of the seventy-seven chapters in the fifth edition, twenty-five chapters are completely new, including: 1. Hardware Elements of Security 2. Fundamentals of Cryptography and Steganography 3. Mathematical models of information security 4. Insider threats 5. Social engineering and low-tech attacks 6. Spam, phishing, and Trojans: attacks meant to fool 7. Biometric authentication 8. VPNs and secure remote access 9. Securing Peer2Peer, IM, SMS, and collaboration tools 10. U.S. legal and regulatory security issues, such as GLBA and SOX Whether you are in charge of many computers or just one important one, there are immediate steps you can take to safeguard your computer system and its contents. Computer Security Handbook, Fifth Edition equips you to protect the information and networks that are vital to your organization.

The two-volume set LNCS 8935 and 8936 constitutes the thoroughly refereed proceedings of the 21st International Conference on Multimedia Modeling, MMM 2015, held in Sydney, Australia, in January 2015. The 49 revised regular papers, 24 poster presentations, were carefully reviewed and selected from 189 submissions. For the three special session, a total of 18 papers were accepted for MMM 2015. The three special sessions are Personal (Big) Data Modeling for Information Access and Retrieval, Social Geo-Media Analytics and Retrieval and Image or video processing, semantic analysis and understanding. In addition, 9 demonstrations and 9 video showcase papers were accepted for MMM 2015. The accepted contributions included in these two volumes represent the state-of-the-art in multimedia modeling research and cover a diverse range of topics including: Image and Video Processing, Multimedia encoding and streaming, applications of multimedia modelling and 3D and augmented reality.

Driven by the need and desire to reduce costs, organizations are faced with a set of decisions that require analytical scrutiny. Enterprise Architecture A to Z: Frameworks, Business Process Modeling, SOA, and Infrastructure Technology examines cost-saving trends in architecture planning, administration, and management. To establish a framework for discussion, this book begins by evaluating the role of Enterprise Architecture Planning and Service-Oriented Architecture (SOA) modeling. It provides an extensive review of the most widely deployed architecture framework models. In particular, the book discusses The Open Group Architecture Framework (TOGAF) and the Zachman Architectural Framework (ZAF) in detail, as well as formal architecture standards and all four layers of these models: the business architecture, the information architecture, the solution architecture, and the technology architecture. The first part of the text focuses on the upper layers of the architecture framework, while the second part focuses on the technology architecture. In this second section, the author presents an assessment of storage technologies and networking and addresses regulatory and security issues. Additional coverage includes high-speed communication mechanisms such as Ethernet, WAN and Internet communication technologies, broadband communications, and chargeback models. Daniel Minoli has written a number of columns and books on the high-tech industry and has many years of technical hands-on and managerial experience at top financial companies and telecom/networking providers. He brings a wealth of knowledge and practical experience to these pages. By reviewing the strategies in this book, CIOs, CTOs, and senior managers are empowered by a set of progressive approaches to designing state-of-the-art IT data centers.

This book constitutes the refereed proceedings of the 27th IFIP TC 11 International Information Security Conference, SEC 2012, held in Heraklion, Crete, Greece, in June 2012. The 42 revised full papers presented together with 11 short papers were carefully reviewed and selected from 167 submissions. The papers are organized in topical sections on attacks and malicious code, security architectures, system security, access control, database security, privacy attitudes and properties, social networks and social engineering, applied cryptography, anonymity and trust, usable security, security and trust models, security economics, and authentication and delegation.

Brave NUI World is the first practical guide for designing touch- and gesture-based user interfaces. Written by the team from Microsoft that developed the multi-touch, multi-user Surface® tabletop product, it introduces the reader to natural user interfaces (NUI). It gives readers the necessary tools and information to integrate touch and gesture practices into daily work, presenting scenarios, problem solving, metaphors, and techniques intended to avoid making mistakes. This book considers diverse user needs and context, real world successes and failures, and the future of NUI. It presents thirty scenarios, giving practitioners a multitude of considerations for making informed design decisions and helping to ensure that missteps are never made again. The book will be of value to game designers as well as practitioners, researchers, and students interested in learning about user experience design, user interface design, interaction design, software design, human computer interaction, human factors, information design, and information architecture. Provides easy-to-apply design guidance for the unique challenge of creating touch- and gesture-based user interfaces Considers diverse user needs and context, real world successes and failures, and a look into the future of NUI Presents thirty scenarios, giving practitioners a multitude of considerations for making informed design decisions and helping to ensure that missteps are never made again

User identification and authentication are essential parts of information security. Users must authenticate as they access their computer systems at work or at home every day. Yet do users understand how and why they are actually being authenticated, the security level of the authentication mechanism that they are using, and the potential impacts o

This book includes a selection of articles from The 2019 World Conference on Information Systems and Technologies (WorldCIST'19), held from April 16 to 19, at La Toja, Spain. WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges in modern information systems and technologies research, together with their technological development and applications. The book covers a number of topics, including A) Information and Knowledge Management; B) Organizational Models and Information Systems; C) Software and Systems Modeling; D) Software Systems, Architectures, Applications and Tools; E) Multimedia Systems and Applications; F) Computer Networks, Mobility and Pervasive Systems; G) Intelligent and Decision Support Systems; H) Big Data Analytics and Applications; I) Human-Computer Interaction; J) Ethics, Computers & Security; K) Health Informatics; L) Information Technologies in Education; M) Information Technologies in Radiocommunications; and N) Technologies for Biomedical Applications.

In today's competitive marketplace with its focus on profit, maintaining integrity can often be a challenge. Further complicating this challenge is the fact that those assigned to the task of assuring accountability within an organization often have little, if any, visibility into the inner workings of that organization. Oracle Identity Management: Governance, Risk, and Compliance Architecture is the definitive guide for corporate stewards who are struggling with the challenge of meeting regulatory compliance pressures while embarking on the path of process and

system remediation. The text is written by Marlin Pohlman, a director with Oracle who is recognized as one of the primary educators worldwide on identity management, regulatory compliance, and corporate governance. In the book's first chapters, Dr. Pohlman examines multinational regulations and delves into the nature of governance, risk, and compliance. He also cites common standards, illustrating a number of well-known compliance frameworks. He then focuses on specific software components that will enable secure business operations. To complete the picture, he discusses elements of the Oracle architecture, which permit reporting essential to the regulatory compliance process, and the vaulting solutions and data hubs, which collect, enforce, and store policy information. Examining case studies from the five most regulated business verticals, financial services, retail, pharma-life sciences, higher education, and the US public sector, this work teaches corporation stewards how to: Attain and maintain high levels of integrity Eliminate redundancy and excessive expense in identity management Map solutions directly to region and legislation Hold providers accountable for contracted services Identity management is the first line of defense in the corporate internal ecosystem. Reconciling theory and practicality, this volume makes sure that defense is workable, responsive, and effective.

This book provides an overview of digital rights management (DRM), including: an overview of terminology and issues facing libraries, plus an overview of the technology including standards and off-the-shelf products. It discusses the role and implications of DRM for existing library services, such as integrated library management systems, electronic reserves, commercial database licenses, digital asset management systems and digital library repositories. It also discusses the impact that DRM 'trusted system' technologies, already in use in complementary areas, such as course management systems and web-based digital media distribution, may have on libraries. It also discusses strategies for implementing DRM in libraries and archives for safeguarding intellectual property in the web environment. A practical guide that places DRM within the context of the services and practices of the library and offers guidance on getting started An understandable overview of the technologies and standards involved in digital rights management An overview of the DRM landscape beyond libraries, with an emphasis on how this landscape impacts libraries and shapes DRM generally. In particular, the e-learning and digital media distribution arenas are embracing DRM, with significant potential impact Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

The headline-grabbing financial scandals of recent years have led to a great urgency regarding organizational governance and security. Information technology is the engine that runs modern organizations, and as such, it must be well-managed and controlled. Organizations and individuals are dependent on network environment technologies, increasing the importance of security and privacy. The field has answered this sense of urgency with advances that have improved the ability to both control the technology and audit the information that is the lifeblood of modern business. Reflects the Latest Technological Advances Updated and revised, this third edition of Information Technology Control and Audit continues to present a comprehensive overview for IT professionals and auditors. Aligned to the CobiT control objectives, it provides a fundamental understanding of IT governance, controls, auditing applications, systems development, and operations. Demonstrating why controls and audits are critical, and defining advances in technology designed to support them, this volume meets the increasing need for audit and control professionals to understand information technology and the controls required to manage this key resource. A Powerful Primer for the CISA and CGEIT Exams Supporting and analyzing the CobiT model, this text prepares IT professionals for the CISA and CGEIT exams. With summary sections, exercises, review questions, and references for further readings, it promotes the mastery of the concepts and practical implementation of controls needed to effectively manage information technology resources. New in the Third Edition: Reorganized and expanded to align to the CobiT objectives Supports study for both the CISA and CGEIT exams Includes chapters on IT financial and sourcing management Adds a section on Delivery and Support control objectives Includes additional content on audit and control of outsourcing, change management, risk management, and compliance

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

This carefully edited and reviewed volume addresses the increasingly popular demand for seeking more clarity in the data that we are immersed in. It offers excellent examples of the intelligent ubiquitous computation, as well as recent advances in systems engineering and informatics. The content represents state-of-the-art foundations for researchers in the domain of modern computation, computer science, system engineering and networking, with many examples that are set in industrial application context. The book includes the carefully selected best contributions to APCASE 2014, the 2nd Asia-Pacific Conference on Computer Aided System Engineering, held February 10-12, 2014 in South Kuta, Bali, Indonesia. The book consists of four main parts that cover data-oriented engineering science research in a wide range of applications: computational models and knowledge discovery; communications networks and cloud computing; computer-based systems; and data-oriented and software-intensive systems.

Master The Crucial Technical Skills Every Software Architect Needs! To succeed as a software architect, you must master both technical skills and soft skills. Dave Hendricksen illuminated the soft skills in his highly-regarded 12 Essential Skills for Software Architects. Now, in 12 More Essential Skills for Software Architects he turns to the technical side. Drawing on his decades of experience, Hendricksen organizes technical skills into three areas. PROJECT SKILLS: driving projects from ideation through delivery TECHNOLOGY SKILLS: building, buying, and/or leveraging the right technologies VISIONARY SKILLS: realizing an architectural vision that improves long-term competitiveness He helps you develop and sharpen these key technical skills: from conceptualizing solutions to developing platforms and governance, and from selecting technology innovations to infusing architectures with an entrepreneurial spirit. This guide reveals the technical skills you need and provides a coherent framework and practical methodology for mastering them. Taken together, Hendricksen's two books offer the most complete, practical pathway to excellence in software architecture. They'll guide you through every step of your

architecture career—from getting the right position to thriving once you have it. Essential Architect Skills Visionary Skills Entrepreneurial Execution Technology Innovation Strategic Roadmapping Technology Skills Governance Platform Development Know-how Architectural Perspective Project Skills Estimation Partnership Discovery Management Conceptualization Dave Hendricksen is a big data architect for Thomson Reuters, where he works closely with the firm's new product development teams to create innovative legal products for large-scale online platforms such as Westlaw.com. Hendricksen presented “Designing and Building Large-Scale Systems in an Agile World” at Carnegie Mellon University's influential Software Engineering Institute.

Mechanics of User Identification and Authentication Fundamentals of Identity Management CRC Press

This book offers timely insights into research on numerical and experimental fluid mechanics and aerodynamics, mainly for (but not limited to) aerospace applications. It reports on findings by members of the STAB (German Aerospace Aerodynamics Association) and DGLR (German Society for Aeronautics and Astronautics) and covers both nationally and EC-funded projects. Continuing on the tradition of the previous volumes, the book highlights innovative solutions, promoting translation from fundamental research to industrial applications. It addresses academics and professionals in the field of aeronautics, astronautics, ground transportation, and energy alike. .

Advances in Digital Forensics VI describes original research results and innovative applications in the discipline of digital forensics. In addition, it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations. The areas of coverage include: Themes and Issues, Forensic Techniques, Internet Crime Investigations, Live Forensics, Advanced Forensic Techniques, and Forensic Tools. This book is the sixth volume in the annual series produced by the International Federation for Information Processing (IFIP) Working Group 11.9 on Digital Forensics, an international community of scientists, engineers and practitioners dedicated to advancing the state of the art of research and practice in digital forensics. The book contains a selection of twenty-one edited papers from the Sixth Annual IFIP WG 11.9 International Conference on Digital Forensics, held at the University of Hong Kong, Hong Kong, China, in January 2010.

This book approaches the topic area of the Internet of Things (IoT) from the perspective of the five types of human communication. Through this perspective on the human communication types, the book aims to specifically address how IoT technologies can support humans and their endeavors. The book explores the fields of sensors, wireless, physiology, biology, wearables, and the Internet. This book is organized with five sections, each covering a central theme; Section 1: The basics of human bond communication Section 2: Relevance IoT, BAN and PAN Section 3: Applications of HBC Section 4: Security, Privacy and Regulatory Challenges Section 5: The Big Picture (Where do we go from here?)

Volume is indexed by Thomson Reuters CPCI-S (WoS). The present work presents up-to-date contributions to the field of mechanisms, mechanical transmissions, robotics and mechatronics. The topics covered are: kinematics, dynamics, analysis and synthesis, mechanical design, sensors and actuators, intelligent control systems and related applications in planar and spatial mechanisms and mechanical transmissions, biomechanics, serial and parallel robots, mobile robots, tele-operation, haptics, virtual reality and precision mechanics. The results reported here should be of interest to researchers, scientists, industrial experts, teachers and students in the fields of engineering as related to design, control and applications.

Information security teams are charged with developing and maintaining a set of documents that will protect the assets of an enterprise from constant threats and risks. In order for these safeguards and controls to be effective, they must suit the particular business needs of the enterprise. A guide for security professionals, Building an Effective Information Security Policy Architecture explains how to review, develop, and implement a security architecture for any size enterprise, whether it is a global company or a SMB. Through the use of questionnaires and interviews, the book demonstrates how to evaluate an organization's culture and its ability to meet various security standards and requirements. Because the effectiveness of a policy is dependent on cooperation and compliance, the author also provides tips on how to communicate the policy and gain support for it. Suitable for any level of technical aptitude, this book serves a guide for evaluating the business needs and risks of an enterprise and incorporating this information into an effective security policy architecture.

This book constitutes the refereed proceedings of the 8th International Conference on Games and Learning Alliance, GALA 2019, held in Athens, Greece, in November 2019. The 38 regular papers presented together with 19 poster papers were carefully reviewed and selected from 76 submissions. The papers cover the following topics: serious game design and pedagogical foundations; AI and technology for SG; gamification; applications and case studies; and posters. The chapter "Cyber Chronix, Participatory Research Approach to Develop and Evaluate a Storytelling Game on Personal Data Protection Rights and Privacy Risks" is available open access under a CC BY 4.0 license at [link.springer.com](https://link.springer.com).

As organizations struggle to implement effective security measures, all too often they focus solely on the tangible elements, such as developing security policies or risk management implementations. While these items are very important, they are only half of the equation necessary to ensure security success. CISO Soft Skills: Securing Organizations Impaired by Employee Politics, Apathy, and Intolerant Perspectives presents tools that empower security practitioners to identify the intangible negative influencers of security that plague most organizations, and provides techniques to identify, minimize, and overcome these pitfalls. The book begins by explaining how using the wrong criteria to measure security can result in a claim of adequate security when objective assessment demonstrates this not to be the case. The authors instead recommend that organizations measure the success of their efforts using a practical approach that illustrates both the tangible and intangible requirements needed by a healthy security effort. The middle section discusses the root causes that negatively influence both a CISO and an organization's ability to truly secure itself. These root causes include: Employee apathy Employee myopia or tunnel vision Employee primacy, often exhibited as office politics The infancy of the information security discipline These chapters explain what a CISO can do about these security constraints, providing numerous practical and actionable exercises, tools, and techniques to identify, limit, and compensate for the influence of security constraints in any type of organization. The final chapters discuss some proactive techniques that CISOs can utilize to effectively secure challenging work environments. Reflecting the experience and solutions of those that are in the trenches of modern organizations, this volume provides practical ideas that can make a difference in the daily lives of security practitioners.

The deployment of software patches can be just as challenging as building entirely new workstations. Training and support issues can haunt even the most successful software launch for months. Preparing for the rigors of software deployment includes not just implementing change, but training employees, predicting and mitigating pitfalls, and managin

Acoustic Emission and Related Non-destructive Evaluation Techniques in the Fracture Mechanics of Concrete: Fundamentals and Applications, Second Edition presents innovative Acoustic Emission (AE)

and related non-destructive evaluation (NDE) techniques that are used for damage detection and inspection of aged and deteriorated concrete structures. This new edition includes multi-modal applications such as DIC, thermography, X-ray and in-situ implementations, all of which are helpful in better understanding feasibility and underlying challenges. This new edition is an essential resource for civil engineers, contractors working in construction, and materials scientists working both in industry and academia. Completely updated, with a new chapter on multi-technique damage monitoring Presents new applications and novel technologies on AE and related NDT in the fracture mechanics of concrete Features contributions from recognized world-leaders in the application of acoustic emission (AE) and NDE techniques used for the damage assessment of concrete and concrete structures

Successful security professionals have had to modify the process of responding to new threats in the high-profile, ultra-connected business environment. But just because a threat exists does not mean that your organization is at risk. This is what risk assessment is all about. How to Complete a Risk Assessment in 5 Days or Less demonstrates how to identify threats your company faces and then determine if those threats pose a real risk to the organization. To help you determine the best way to mitigate risk levels in any given situation, How to Complete a Risk Assessment in 5 Days or Less includes more than 350 pages of user-friendly checklists, forms, questionnaires, and sample assessments. Presents Case Studies and Examples of all Risk Management Components Based on the seminars of information security expert Tom Peltier, this volume provides the processes that you can easily employ in your organization to assess risk. Answers such FAQs as: Why should a risk analysis be conducted? Who should review the results? How is the success measured? Always conscious of the bottom line, Peltier discusses the cost-benefit of risk mitigation and looks at specific ways to manage costs. He supports his conclusions with numerous case studies and diagrams that show you how to apply risk management skills in your organization—and it's not limited to information security risk assessment. You can apply these techniques to any area of your business. This step-by-step guide to conducting risk assessments gives you the knowledgebase and the skill set you need to achieve a speedy and highly-effective risk analysis assessment in a matter of days.

This book focuses on software architecture and the value of architecture in the development of long-lived, mission-critical, trustworthy software-systems. The author introduces and demonstrates the powerful strategy of "Managed Evolution," along with the engineering best practice known as "Principle-based Architecting." The book examines in detail architecture principles for e.g., Business Value, Changeability, Resilience, and Dependability. The author argues that the software development community has a strong responsibility to produce and operate useful, dependable, and trustworthy software. Software should at the same time provide business value and guarantee many quality-of-service properties, including security, safety, performance, and integrity. As Dr. Furrer states, "Producing dependable software is a balancing act between investing in the implementation of business functionality and investing in the quality-of-service properties of the software-systems." The book presents extensive coverage of such concepts as: Principle-Based Architecting Managed Evolution Strategy The Future Principles for Business Value Legacy Software Modernization/Migration Architecture Principles for Changeability Architecture Principles for Resilience Architecture Principles for Dependability The text is supplemented with numerous figures, tables, examples and illustrative quotations. Future-Proof Software-Systems provides a set of good engineering practices, devised for integration into most software development processes dedicated to the creation of software-systems that incorporate Managed Evolution.

Free-to-play (F2P) games have been recently taking the market by the storm, proving to be both popular among users and developers. Delivering the core experience for free and functional or decorative benefits within the game for a small price (microtransactions), can these games really be labelled free? This research explores the costs involved in playing or taking part in free-to-play game communities through an 18-month virtual ethnography. Using a specific F2P browser game which is developed and published in Germany as a case example, interviews are conducted with professionals from the game company, as well as players of the game to explore the influence the payment model has on the various aspects of the game culture. Utilizing the circuit of culture (du Gay et al., 1997) as a theoretical framework, the research empirically explores all the contexts of the game culture in question, from official and non-official game content production and regulation, to appropriation and identification by members of the culture and the representation of themes within the game and of the game within media and public discourse.

While traveling the data highway through the global village, most people, if they think about it at all, consider privacy a non-forfeitable right. They expect to have control over the ways in which their personal information is obtained, distributed, shared, and used by any other entity. According to recent surveys, privacy, and anonymity are the fundamental issues of concern for most Internet users, ranked higher than ease-of-use, spam, cost, and security. Digital Privacy: Theory, Techniques, and Practices covers state-of-the-art technologies, best practices, and research results, as well as legal, regulatory, and ethical issues. Editors Alessandro Acquisti, Stefanos Gritzalis, Costas Lambrinoudakis, and Sabrina De Capitani di Vimercati, established researchers whose work enjoys worldwide recognition, draw on contributions from experts in academia, industry, and government to delineate theoretical, technical, and practical aspects of digital privacy. They provide an up-to-date, integrated approach to privacy issues that spells out what digital privacy is and covers the threats, rights, and provisions of the legal framework in terms of technical counter measures for the protection of an individual's privacy. The work includes coverage of protocols, mechanisms, applications, architectures, systems, and experimental studies. Even though the utilization of personal information can improve customer services, increase revenues, and lower business costs, it can be easily misused and lead to violations of privacy. Important legal, regulatory, and ethical issues have emerged, prompting the need for an urgent and consistent response by electronic societies. Currently there is no book available that combines such a wide range of privacy topics with such a stellar cast of contributors. Filling that void, Digital Privacy: Theory, Techniques, and Practices gives you the foundation for building effective and legal privacy protocols into your business processes.

Develop and implement an effective end-to-end security program Today's complex world of mobile platforms, cloud computing, and ubiquitous data access puts new security demands on every IT professional. Information Security: The Complete Reference, Second Edition (previously titled Network Security: The Complete Reference) is the only comprehensive book that offers vendor-neutral details on all aspects of information protection, with an eye toward the evolving threat landscape. Thoroughly revised and expanded to cover all aspects of modern information security—from concepts to details—this edition provides a one-stop reference equally applicable to the beginner and the seasoned professional. Find out how to build a holistic security program based on proven methodology, risk analysis, compliance, and business needs. You'll learn how to successfully protect data, networks, computers, and applications. In-depth chapters cover data protection, encryption, information rights management, network security, intrusion detection and prevention, Unix and Windows security, virtual and cloud security, secure application development, disaster recovery, forensics, and real-world attacks and countermeasures. Included is an extensive security glossary, as well as standards-based references. This is a great resource for professionals and students alike. Understand security concepts and building blocks Identify vulnerabilities and mitigate risk Optimize authentication and authorization Use IRM and encryption to protect unstructured data Defend storage devices, databases, and software Protect network routers, switches, and firewalls Secure VPN, wireless, VoIP, and PBX infrastructure Design intrusion detection and prevention systems Develop secure Windows, Java, and mobile applications Perform incident response and forensic analysis

Experimental and Applied Mechanics, Volume 4: Proceedings of the 2012 Annual Conference on Experimental and Applied Mechanics, the fourth volume of seven from the Conference, brings together 54 contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Experimental and Applied Mechanics, including

papers on: Fracture & Fatigue Microscale & Microstructural Effects in Fatigue & Fracture Material Applications Composite Characterization Using Digital Image Correlation Techniques Multi-Scale Simulation and Testing of Composites Residual Stress Inverse Problems/Hybrid Methods Nano-Composites Microstructure Material Characterization Modeling and Uncertainty Quantification Impact Behavior of Composites

Offering hundreds of tips, templates, checklists, and pointers to information in the public domain, *Business Resumption Planning, Second Edition* assists you in creating a rock solid recovery plan for any size organization. It provides the information you need in order to coordinate first responders to meet any disaster scenario head on, whether involving computers, telecommunications, or infrastructure in a timely and effective manner. What's New in the Second Edition:

- The latest techniques for conducting an efficient Business Impact Analysis and an accurate Failure Mode Effects Analysis (FMEA)
- Advice on how to successfully recover from Ground Zero events, such as those involving Oklahoma City, the World Trade Center (WTC), and Hurricane Katrina
- Tips for recovery teams and first responders, including how to maintain "4C" (Command, Control, Communications, Computers and intelligence) during a disaster
- An examination of legal ramifications resulting from a failure to plan—including new liability issues that directly affect you
- An explanation of how the recently enacted Sarbanes-Oxley Act of 2002 impacts your planning effort
- Plans and templates that assess vulnerability in WANs, Open Networks, physical facilities, environmental, and enhanced services

The book contains actual case studies and examples illustrating the vulnerabilities of today's mission critical systems. It details the proactive steps you should take now to first assess your exposure, then eliminate it. The book also includes a CD-ROM that contains worksheets, checklists, audit forms, work breakdown structures, and reports.

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