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Nature-Inspired Intelligent Techniques for Solving Biomedical Engineering Problems Kose, Utku 2018-03-31 Technological tools and computational techniques have enhanced the healthcare industry. These advancements have led to significant progress and novel opportunities for biomedical engineering. Nature-Inspired Intelligent Techniques for Solving Biomedical Engineering Problems is a pivotal reference source for emerging scholarly research on trends and techniques in the utilization of nature-inspired approaches in biomedical engineering. Featuring extensive coverage on relevant areas such as artificial intelligence, clinical decision support systems, and swarm intelligence, this publication is an ideal resource for medical practitioners, professionals, students, engineers, and researchers interested in the latest developments in biomedical technologies. *Advanced Information Systems Engineering Workshops* Xavier Franch 2013-06-20 This book constitutes the thoroughly refereed proceedings of eight international workshops held in Valencia, Spain, in conjunction with the 25th International Conference on Advanced Information Systems Engineering, CAiSE 2013, in June 2013. The 36 full and 12 short papers have undertaken a high-quality and selective acceptance policy, resulting in acceptance rates of up to 50% for full research papers. The eight workshops were Approaches for Enterprise Engineering Research (AppEER), International Workshop on BUSiness/IT ALignment and Interoperability (BUSITAL), International Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE), Workshop on Human-Centric Information Systems (HC-IS), Next Generation Enterprise and Business Innovation Systems (NGEBIS), International Workshop on Ontologies and Conceptual Modeling (OntoCom), International Workshop on Variability Support in Information Systems (VarIS), International Workshop on Information Systems Security Engineering (WISSE).

Cloud Computing for Science and Engineering Ian Foster 2017-09-29 A guide to cloud computing for students, scientists, and engineers, with advice and many hands-on examples. The emergence of powerful, always-on cloud utilities has transformed how consumers interact with information technology, enabling video streaming, intelligent personal assistants, and the sharing of content. Businesses, too, have benefited from the cloud, outsourcing much of their information technology to cloud services. Science, however, has not fully exploited the advantages of the cloud. Could scientific discovery be accelerated if mundane chores were automated and outsourced to the cloud? Leading computer scientists Ian Foster and Dennis Gannon argue that it can, and in this book offer a guide to cloud computing for students, scientists, and engineers, with advice and many hands-on examples. The book surveys the technology that underpins the cloud, new approaches to technical problems enabled by the cloud, and the concepts required to integrate cloud services into scientific work. It covers managing data in the cloud, and how to program these services; computing in the cloud, from deploying single virtual machines or containers to supporting basic interactive science

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experiments to gathering clusters of machines to do data analytics; using the cloud as a platform for automating analysis procedures, machine learning, and analyzing streaming data; building your own cloud with open source software; and cloud security. The book is accompanied by a website, Cloud4SciEng.org, that provides a variety of supplementary material, including exercises, lecture slides, and other resources helpful to readers and instructors.

Scrum For Dummies Mark C. Layton 2018-04-16 Use scrum in all aspects of life Scrum is an agile project management framework that allows for flexibility and collaboration to be a part of your workflow. Primarily used by software developers, scrum can be used across many job functions and industries. Scrum can also be used in your personal life to help you plan for retirement, a trip, or even a wedding or other big event. Scrum provides a small set of rules that create just enough structure for teams to be able to focus their innovation on solving what might otherwise be an insurmountable challenge. Scrum For Dummies shows you how to assemble a scrum taskforce and use it to implement this popular Agile methodology to make projects in your professional and personal life run more smoothly—from start to finish. Discover what scrum offers project and product teams Integrate scrum into your agile project management strategy Plan your retirement or a family reunion using scrum Prioritize for releases with sprints No matter your career path or job title, the principles of scrum are designed to make your life easier. Why not give it a try?

Practical Reverse Engineering Bruce Dang 2014-02-03 Analyzing how hacks are done, so as to stop them in thefuture Reverse engineering is the process of analyzing hardware orsoftware and understanding it, without having access to the sourcecode or design documents. Hackers are able to reverse engineersystems and exploit what they find with scary results. Now the goodguys can use the same tools to thwart these threats. PracticalReverse Engineering goes under the hood of reverse engineeringfor security analysts, security engineers, and system programmers,so they can learn how to use these same processes to stop hackersin their tracks. The book covers x86, x64, and ARM (the first book to cover allthree); Windows kernel-mode code rootkits and drivers; virtualmachine protection techniques; and much more. Best of all, itoffers a systematic approach to the material, with plenty ofhands-on exercises and real-world examples. Offers a systematic approach to understanding reverseengineering, with hands-on exercises and real-world examples Covers x86, x64, and advanced RISC machine (ARM) architecturesas well as deobfuscation and virtual machine protectiontechniques Provides special coverage of Windows kernel-mode code(rootkits/drivers), a topic not often covered elsewhere, andexplains how to analyze drivers step by step Demystifies topics that have a steep learning curve Includes a bonus chapter on reverse engineering tools Practical Reverse Engineering: Using x86, x64, ARM, WindowsKernel, and Reversing Tools provides crucial, up-to-dateguidance for a broad range of IT professionals.

Engineering Capstone Design Bahram Nassersharif 2022-06-27 Structured with a practical approach, Engineering Capstone Design guides engineering students to successfully manage capstone design projects. The book addresses the challenge of open-ended design projects, often in a team-based format, discussing team member roles, communication, and cooperation. It incorporates accreditation requirements and provides a modern framework for working with industry, reinforced by the inclusion of case studies. Offers a structured process for capstone design, responsive to ABET accreditation requirements Explains how to manage design projects under critical timelines and budgets Covers essential topics and steps in a capstone design sequence, including defining, conceiving, presenting, prototyping, building, testing, and redesigning Considers industry perspectives, as well as design competitions Includes case studies for a look into industry experience In addition to guiding engineering students conducting capstone design projects, this book will also interest industry professionals who are engaged in product development or design problem-solving.

Chaos Engineering Casey Rosenthal 2020-04-06 As more companies move toward microservices and other distributed technologies, the complexity of these systems increases. You can’t remove the complexity, but through Chaos

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Engineering you can discover vulnerabilities and prevent outages before they impact your customers. This practical guide shows engineers how to navigate complex systems while optimizing to meet business goals. Two of the field's prominent figures, Casey Rosenthal and Nora Jones, pioneered the discipline while working together at Netflix. In this book, they expound on the what, how, and why of Chaos Engineering while facilitating a conversation from practitioners across industries. Many chapters are written by contributing authors to widen the perspective across verticals within (and beyond) the software industry. Learn how Chaos Engineering enables your organization to navigate complexity Explore a methodology to avoid failures within your application, network, and infrastructure Move from theory to practice through real-world stories from industry experts at Google, Microsoft, Slack, and LinkedIn, among others Establish a framework for thinking about complexity within software systems Design a Chaos Engineering program around game days and move toward highly targeted, automated experiments Learn how to design continuous collaborative chaos experiments

Software Telemetry Jamie Riedesel 2021-08-31 Software Telemetry is a guide to operating the telemetry systems that monitor and maintain your applications. It takes a big picture view of telemetry, teaching you to manage your logging, metrics, and events as a complete end-to-end ecosystem. You'll learn the base architecture that underpins any software telemetry system, allowing you to easily integrate new systems into your existing infrastructure, and how these systems work under the hood. Throughout, you'll follow three very different companies to see how telemetry techniques impact a greenfield startup, a large legacy enterprise, and a non-technical organization without any in-house development. You'll even cover how software telemetry is used by court processes--ensuring that when your first telemetry subpoena arrives, there's no reason to panic!

Future Communication Technology and Engineering Kennis Chan 2015-04-06 Future Communication Technology and Engineering is a collection of papers presented at the 2014 International Conference on Future Communication Technology and Engineering (Shenzhen, China 16-17 November 2014). Covering a wide range of topics (communication systems, automation and control engineering, electrical engineering), the book includes the

Handbook of Research on Improving Engineering Education With the European Project Semester Malheiro, Benedita 2022-03-18 Engineering education aims to prepare engineering undergraduates for their future professional journey where they will be called on to solve challenges affecting individuals, companies, and society. The European Project Semester (EPS) exposes students to project- and challenge-based learning, paying special attention to international multidisciplinary teamwork, sustainable design, innovative thinking, and project management in order to develop a set of desired professional skills. The Handbook of Research on Improving Engineering Education With the European Project Semester shares the best practices in engineering education through close examination of the EPS. It describes the adopted learning framework, analyzes how it contributes to the development of skills, reports on the types of challenges proposed to teams, and delivers a set of team-project cases from the network of providers. Covering topics such as engineering ethics, project management, and sustainable behavior, this book is essential to students in engineering, engineers, engineering educators, educational researchers, academic administration and faculty, and academicians.

The Lean Startup Eric Ries 2011-09-13 Most startups fail. But many of those failures are preventable. The Lean Startup is a new approach being adopted across the globe, changing the way companies are built and new products are launched. Eric Ries defines a startup as an organization dedicated to creating something new under conditions of extreme uncertainty. This is just as true for one person in a garage or a group of seasoned professionals in a Fortune 500 boardroom. What they have in common is a mission to penetrate that fog of uncertainty to discover a successful path to a sustainable business. The Lean Startup approach fosters companies that are both more capital efficient and that leverage human creativity more effectively. Inspired by lessons from lean manufacturing, it relies on "validated learning," rapid scientific experimentation, as well as a

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number of counter-intuitive practices that shorten product development cycles, measure actual progress without resorting to vanity metrics, and learn what customers really want. It enables a company to shift directions with agility, altering plans inch by inch, minute by minute. Rather than wasting time creating elaborate business plans, The Lean Startup offers entrepreneurs—in companies of all sizes—a way to test their vision continuously, to adapt and adjust before it's too late. Ries provides a scientific approach to creating and managing successful startups in a age when companies need to innovate more than ever.

Bioinformatics and Biomedical Engineering Francisco Ortuño 2015-03-16 The two volume set LNCS 9043 and 9044 constitutes the refereed proceedings of the Third International Conference on Bioinformatics and Biomedical Engineering, IWBBIO 2015, held in Granada, Spain, in April 2015. The 135 papers presented were carefully reviewed and selected from 268 submissions. The scope of the conference spans the following areas: bioinformatics for healthcare and diseases, biomedical engineering, biomedical image analysis, biomedical signal analysis, computational genomics, computational proteomics, computational systems for modelling biological processes, e Health, next generation sequencing and sequence analysis, quantitative and systems pharmacology, Hidden Markov Model (HMM) for biological sequence modeling, advances in computational intelligence for bioinformatics and biomedicine, tools for next generation sequencing data analysis, dynamics networks in system medicine, interdisciplinary puzzles of measurements in biological systems, biological networks, high performance computing in bioinformatics, computational biology and computational chemistry, advances in drug discovery and ambient intelligence for bio emotional computing.

Coders Clive Thompson 2019-04-04 From revolution on Twitter to romance on Tinder, we live in a world constructed of code – and coders are the ones who built it for us. In Coders, acclaimed tech writer Clive Thompson offers an illuminating reckoning with the most powerful tribe in the world today, computer programmers, asking who they are, how they think, and what should give us pause. Along the way, Thompson ponders the morality and politics of code, including its implications for civic life and the economy, and unpacks the surprising history of the field, beginning with the first coders – brilliant and pioneering women, who were later written out of history. To understand the world today, we need to understand code and its consequences. With Coders, Thompson offers a crucial insight into the heart of the machine. 'By breaking down what the actual world of coding looks like . . . [Thompson] removes the mystery and brings it into the legible world for the rest of us to debate.' New York Times 'Masterful . . . [Thompson] illuminates both the fascinating coders and the bewildering technological forces that are transforming the world in which we live.' David Grann, author of The Lost City of Z

IT Crisisology Casebook Sergey V. Zykov

Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing Roger Lee 2017-06-23 This book gathers 14 of the most promising papers presented at the 18th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2017), which was held on June 26–28, 2017 in Kanazawa, Japan. The aim of this conference was to bring together researchers and scientists, businessmen and entrepreneurs, teachers, engineers, computer users, and students to discuss the various fields of computer science and to share their experiences and exchange new ideas and information in a meaningful way. The book presents research findings concerning all aspects (theory, applications and tools) of computer and information science, and discusses the practical challenges encountered along the way, as well as the solutions adopted to solve them.

System Management Jeffrey O. Grady 1999-07-29 System Engineering Deployment shows you how to make systems development work for your organization. It focuses on the deployment of the system engineering process that will propel your organization to excellence. The strategies covered will help organizations already using a systems approach fine tune their systems as well as giving organizations the tools to develop systems of their own. Topics include: enterprise knowledge organizational structure for work the jog system engineering method task

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cost and schedule estimating The author focuses on the development of a quality systems approach into programs that can be used to develop an integrated master plan and schedules. The book provides the optimum marriage between specific program planning and a company's generic identity. With System Engineering Deployment you can design an effective systems approach to perfection.

Applied Engineering, Materials and Mechanics Jong Wan Hu 2016-07-14 ICAEMM2016 is an annual international conference that aims to present research outcomes undertaken in applied engineering, materials and mechanics. The book is a collection of 48 selected peer-reviewed articles, organized into three main chapters — advanced materials and power energy theory and studies; management technology and construction engineering applications; and mechanical and hydrology engineering design and applications. This conference brings together scientists, scholars, engineers and students from universities, research institutes and industries all over the world to share their latest research results. The conference also fosters collaboration among organizations and researchers alike in the areas of applied mechanics and materials science. Contents:The Mechanical Properties of SS400C3 Plate by CSP Produced Under the Hot Rolled Pickled Deep Drawing (Y X Liu, Y J Meng, W X Li, X Guan and B Yang)Effect of Extrusion Deformation on Microstructure Evolution of Spray-Formed 7055 Aluminum Alloy (Y Z Xiang, J S Qiao, P J Wang and H Zhang)Innovation Design of Flexible Manipulator by TRIZ (G H Gao and H Wang)Application of TRIZ Contradiction Theory in Innovative Design of the Potted Filling Soil Mechanism (G H Gao and F Li)Institutional Analysis of the Development and Policy on Sino–US Energy on Saving and New Energy Vehicles (W J Wu and L J Zhu)Improved Performance of LiCoO2 Cathode Enabled by Electrode Sputtering Coating with Al2O3 (X Y Dai, Y T Lu, A J Zhou, L P Wang, C Fan and J Z Li)Antimicrobial Finishing of Polyester Fabrics Using Silica Nanoparticles (Weeranuch Kanjanapiboon, Supakit Achiwawanich, Potjanart Suwanruji and Jantip Setthayanond)Preparation and Characterization of Manganese Dioxide (MnO2) as a Cathode Catalyst for Direct Methanol Fuel Cells (Duangkamon Phuakkhaw, Atchana Wongchaisuwat, Siree Tangbunsuk and Pinsuda Viravathana)Numerical Simulation of the Energy Deposition in the HIPIB Irradiating Process of Ti Target (Ming Gao, Rui Hou, Yong You and Mengru Lv)Research on the Performance of the Offshore-Platform Air Filter Based on the Porous Medium Model (N Ye, T Sun, C-J Sun and Z-W Ma)Analysis of the Reasons Behind the Fracture of the 220kV Pipe Busbar Horizontal Line Clamp (Liu, Z-B Fan and M D Gao)Analysis of Hydrocarbons and Carbon Dioxide Emissions from Diesel Common Rail Engines and Finding the Correlation Between Velocity and Emissions in the Cases of Lancia Thesis and Citroen C4 (Lorenc Malka, Andonaq Londo, Alemayehug Gebremedhin and Klodian Dhoska)Effect of Na2O on Acid Resistance of Alumina-based Ceramic Proppant (J L Ma, B L Wu and T T Wu)The Application of Digital Technologies in Furniture Design (Jun Wang and Zhi Hui Wu)Research on the Bored Pile Construction Technique of Alternating Screw Drills and Percussion Drills (J-Y Shao, X-M Cao and Y-L Song)Research on Construction Technology of Color Steel Plate Roof in Situ Profiling and Installation (S Zhu, H-P Wang and X-X Meng)Study on a Flexible Manipulator Platform (G-H Gap and M Y Song)Effect of Pore Solution Alkalinity of Fly Ash-Cement Mixture on ASTM C 1260/C 1567 Mortar Bar Expansion (C-S Shon and Dan G Zollinger)Effect of Vibration Mixing on Performance of Recycled Concrete (S L Wang, S M Zhang, M M Zhang and W Liu)Research on Mechanical Strength and Residual Stress in Friction Stir Welds of Spatial 3-D Circular Structure (X C Song, F Cui, J S Gao, X S Feng and L J Guo)Cracking Pattern Analysis of Concrete Pavement on Asphalt Stabilized Base and Econo-Crete Base (Q Wang and L Qi)A Review of Coastal Hazard Management Performances (K H Kim and W Agnes)Mode Confusion for Estimating the Longitudinal Thermal Stress of Continuously Welded Rail (R Wang, Z J Yu and L Q Zhu)Investigation of Pore Size Distribution in Cement Paste Using Mercury Intrusion Porosimetry and Backscattered Electron Image Analysis (S X Feng and X G Sun)Impressed Current Cathodic Protection Behavior of Reinforced Concrete Specimen Using MMO Ti-Mesh Anode (J-A Jeong and E-S Jeong)The Unascertained Regression Analysis Method and

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Its Application in Building Material Sales Prediction (J L Chen and H B Zhang)Research on Inventory Control for Equipment Maintenance Spare Parts (X M Zhang, W Wu and H Z Ren)Impact of Environmental Regulation on Corporate Environmental Investment (Heng Ma and Jun Zhang)Using Frequency Sweep Strain Control to Study the Rheological Properties of Malaysian's Asphalt Binder (Mohammed Hadi Nahi, Ibrahim Kamaruddin, Salah E Zoorob and Madzlan Napiah)Numerical Simulation of Heated Concrete Failure on the Levels of the Meso-Structure (W H Wang and C Wang)Analysis of Warping Deformation of Laser Bracket Based on Moldflow (Weidong Wang, Song Jishun, Chen and Jiangping)Prediction Deterioration of Insulation Process Based on the Partial Discharge Thermal Fluctuation Theory (M N Dubyago, N K Poluyanovich and D V Burkov)A File Storage Service on a Cloud Computing Environment for Digital Libraries (Liu Jing)A Design Procedure for the Hinge System in a Heavy Foldable Container (Y-S Lee, D-K Lee and S-H Yoon)Viable Seismic Strengthening Solutions for RC Wide Beam-Column Joints (A Masi, G Santarsiero, A Mossucca and D Nigro)Optimization of Gas Turbine Fir-Tree Attachment Based on Redesigning the Transition Area with Double-Arc and Spline Curve (H M Zong, H L Tao, Q Gao and C Q Tan)Compensation of the Deformed Ram Spindle of a Horizontal Boring Machine (Y J Chen and J P Hung)Study on Motion Response of Spar Foundation Based on AWQA (K Fan, C H Jiang, H Lv and M Y Guo)Numerical Analysis on the Effects of Shoal on the Ship Wave (K H Kim and J S Seo)Investigation of Characteristics of Wave Induced Currents Using Hydraulic Model Experiment (K H Kim and J S Seo)The Design and Application of Motion Control System Based on PLCopen Standard (F S Li)Dye-Sensitized Solar Cells Using Liquid Phase Deposition Titania Thin Films (H J Chen, D T Kong, N Wang and H C He)Chebyshev Cardinal Functions for Solving Obstacle Boundary Value Problems (Zakieh Avazzadeh and Mohammad Heydari)Experimental Study on Linear Pressure Loss of Spray Hose (Y Gong, X Zhang, G Wang, X Chen, D J Liu and L Pei)MEMS Based Device for Steering Wheel Angle Experimental Measuring (Radu Drosescu and Silviu Zamfir)Mechanical Property Changes of KNO3 Salt Bath Nitrided Duplex Stainless Steel (Jamshid D Schurdjanov and I S Kim)Wastewaters Treatment and Drinking Water Purification with Complex Automated Electrolysis Unit (E Arakcheev, M Brunman, A Konyashin, V Brunman and A Petkova)Development and Application of Comprehensive Drought Evaluation Model for Irrigation District in North China (J Q Ma, Z W Zhang and R Weis) Readership: Academics, professionals, postgraduate and graduate students in materials engineering, materials science and applied mechanics.

System Synthesis Jeffrey O. Grady 2010-05-17 Unlike most engineers, system engineers focus on the knowledge base needed to develop good systems in a cross-functional fashion rather than deeply on isolated topics. They are often said to be a mile wide and an inch deep in what they do know. System Synthesis: Product and Process Design provides insight into complex problems, focusing on the boun

Design for Software Erik Klimczak 2013-03-07 A unique resource to help software developers create a desirable user experience Today, top-flight software must feature a desirable user experience. This one-of-a-kind book creates a design process specifically for software, making it easy for developers who lack design background to create that compelling user experience. Appealing to both tech-savvy designers and creative-minded technologists, it establishes a hybrid discipline that will produce first-rate software. Illustrated in full color, it shows how to plan and visualize the design to create software that works on every level. Today's software demands attention to the quality of the user experience; this book guides you through a practical design process to achieve that goal Approaches the mechanics of design with a process inspired by art and science Avoids the abstract and moves step by step through techniques you can put to use immediately Covers planning your design, tested methods, how to visualize like a designer, psychology of design, and how to create software that developers will appreciate Explores such elements as choosing the right typeface and managing interactivity Design for Software: A Playbook for Developers brings the art of good design together with the science of software development to create programs with pizazz.

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Information security: risk assessment, management systems, the ISO/IEC 27001 standard Cesare Gallotti 2019-01-17 In this book, the following subjects are included: information security, the risk assessment and treatment processes (with practical examples), the information security controls. The text is based on the ISO/IEC 27001 standard and on the discussions held during the editing meetings, attended by the author. Appendixes include short presentations and check lists. CESARE GALLOTTI has been working since 1999 in the information security and IT process management fields and has been leading many projects for companies of various sizes and market sectors. He has been leading projects as consultant or auditor for the compliance with standards and regulations and has been designing and delivering ISO/IEC 27001, privacy and ITIL training courses. Some of his certifications are: Lead Auditor ISO/IEC 27001, Lead Auditor 9001, CISA, ITIL Expert and CBCI, CIPP/e. Since 2010, he has been Italian delegate for the the editing group for the ISO/IEC 27000 standard family. Web: www.cesaregallotti.it.

The 10th International Conference on Computer Engineering and Networks Qi Liu 2020-10-05 This book contains a collection of the papers accepted by the CENet2020 – the 10th International Conference on Computer Engineering and Networks held on October 16-18, 2020 in Xi'an, China. The topics focus but are not limited to Internet of Things and Smart Systems, Artificial Intelligence and Applications, Communication System Detection, Analysis and Application, and Medical Engineering and Information Systems. Each part can be used as an excellent reference by industry practitioners, university faculties, research fellows and undergraduates as well as graduate students who need to build a knowledge base of the most current advances and state-of-practice in the topics covered by this conference proceedings. This will enable them to produce, maintain, and manage systems with high levels of trustworthiness and complexity.

Handbook of Research on 5G Networks and Advancements in Computing, Electronics, and Electrical Engineering Nwajana, Augustine O. 2021-06-25 The advent of the emerging fifth generation (5G) networks has changed the paradigm of how computing, electronics, and electrical (CEE) systems are interconnected. CEE devices and systems, with the help of the 5G technology, can now be seamlessly linked in a way that is rapidly turning the globe into a digital world. Smart cities and internet of things have come to stay but not without some challenges, which must be discussed. The Handbook of Research on 5G Networks and Advancements in Computing, Electronics, and Electrical Engineering focuses on current technological innovations as the world rapidly heads towards becoming a global smart city. It covers important topics such as power systems, electrical engineering, mobile communications, network, security, and more. This book examines vast types of technologies and their roles in society with a focus on how each works, the impacts it has, and the future for developing a global smart city. This book is ideal for both industrial and academic researchers, scientists, engineers, educators, practitioners, developers, policymakers, scholars, and students interested in 5G technology and the future of engineering, computing, and technology in human society.

Computer and Information Sciences III Erol Gelenbe 2012-10-29 A collection of papers from ISCIS 27th Annual Symposium. Based on a rigorous selection of worldwide submissions of advanced research papers, this volume includes some of the most recent ideas and technical results in computer systems, computer science, and computer-communication networks. This book provides the reader with a timely access to the work of vibrant research groups in many different areas of the world where the new frontiers of computing and communications are being created.

High-Impact Human Capital Strategy Jack Phillips 2015-08-26 Human Resources used to be about recruiting good people, preparing them for assignments, motivating them to perform, and retaining them. Do these things well and your well-oiled machine will operate as planned. But in today's turbulent and increasingly broadening economy, HR must go beyond its traditional focus if a company is to also expand and become as far-reaching as the times are trying to take it. While the core plan of recruit, prepare, motivate, and retain is still essential, High-Impact Human Capital Strategy examines 12 critical forces that must also be evaluated and maximized if a

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company is to continue its success, including: globalization, changes in workforce demographics, skill shortages and mismatches in labor markets, environmental matters, and more. Readers will learn how to design human capital programs that:• Incorporate each of the 12 critical forces into an effective overall plan• Connect with business measures• Achieve positive ROI• Ensure critical talent is in place• Boost engagement• Address work/life balance and other social issues• Reduce the need to outsourceComplete with case studies and step-by-step guidelines to help you move beyond the traditional focus of Human Resources, the indispensable plans of attack found in High-Impact Human Capital deliver measurable value in the face of ongoing challenges that are not going away.

Data, Engineering and Applications Rajesh Kumar Shukla 2019-04-24 This book presents a compilation of current trends, technologies, and challenges in connection with Big Data. Many fields of science and engineering are data-driven, or generate huge amounts of data that are ripe for the picking. There are now more sources of data than ever before, and more means of capturing data. At the same time, the sheer volume and complexity of the data have sparked new developments, where many Big Data problems require new solutions. Given its scope, the book offers a valuable reference guide for all graduate students, researchers, and scientists interested in exploring the potential of Big Data applications.

Social Engineering Penetration Testing Gavin Watson 2014-04-11 Social engineering attacks target the weakest link in an organization's security human beings. Everyone knows these attacks are effective, and everyone knows they are on the rise. Now, Social Engineering Penetration Testing gives you the practical methodology and everything you need to plan and execute a social engineering penetration test and assessment. You will gain fascinating insights into how social engineering techniques including email phishing, telephone pretexting, and physical vectors can be used to elicit information or manipulate individuals into performing actions that may aid in an attack. Using the book's easy-to-understand models and examples, you will have a much better understanding of how best to defend against these attacks. The authors of Social Engineering Penetration Testing show you hands-on techniques they have used at RandomStorm to provide clients with valuable results that make a real difference to the security of their businesses. You will learn about the differences between social engineering pen tests lasting anywhere from a few days to several months. The book shows you how to use widely available open-source tools to conduct your pen tests, then walks you through the practical steps to improve defense measures in response to test results. Understand how to plan and execute an effective social engineering assessment Learn how to configure and use the open-source tools available for the social engineer Identify parts of an assessment that will most benefit time-critical engagements Learn how to design target scenarios, create plausible attack situations, and support various attack vectors with technology Create an assessment report, then improve defense measures in response to test results

Implementing Service Level Objectives Alex Hidalgo 2020-08-05 Although service-level objectives (SLOs) continue to grow in importance, there’s a distinct lack of information about how to implement them. Practical advice that does exist usually assumes that your team already has the infrastructure, tooling, and culture in place. In this book, recognized SLO expert Alex Hidalgo explains how to build an SLO culture from the ground up. Ideal as a primer and daily reference for anyone creating both the culture and tooling necessary for SLO-based approaches to reliability, this guide provides detailed analysis of advanced SLO and service-level indicator (SLI) techniques. Armed with mathematical models and statistical knowledge to help you get the most out of an SLO-based approach, you’ll learn how to build systems capable of measuring meaningful SLIs with buy-in across all departments of your organization. Define SLIs that meaningfully measure the reliability of a service from a user’s perspective Choose appropriate SLO targets, including how to perform statistical and probabilistic analysis Use error budgets to help your team have better discussions and make better data-driven decisions Build supportive tooling and resources required for an SLO-based approach Use SLO

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data to present meaningful reports to leadership and your users

Learn Social Engineering Dr. Erdal Ozkaya 2018-04-30 Improve information security by learning Social Engineering. Key Features Learn to implement information security using social engineering Get hands-on experience of using different tools such as Kali Linux, the Social Engineering toolkit and so on Practical approach towards learning social engineering, for IT security Book Description This book will provide you with a holistic understanding of social engineering. It will help you to avoid and combat social engineering attacks by giving you a detailed insight into how a social engineer operates. Learn Social Engineering starts by giving you a grounding in the different types of social engineering attacks,and the damages they cause. It then sets up the lab environment to use different toolS and then perform social engineering steps such as information gathering. The book covers topics from baiting, phishing, and spear phishing, to pretexting and scareware. By the end of the book, you will be in a position to protect yourself and your systems from social engineering threats and attacks. All in all, the book covers social engineering from A to Z , along with excerpts from many world wide known security experts. What you will learn Learn to implement information security using social engineering Learn social engineering for IT security Understand the role of social media in social engineering Get acquainted with Practical Human hacking skills Learn to think like a social engineer Learn to beat a social engineer Who this book is for This book targets security professionals, security analysts, penetration testers, or any stakeholder working with information security who wants to learn how to use social engineering techniques. Prior knowledge of Kali Linux is an added advantage

New Trends on System Science and Engineering H. Fujita 2015-06-23 System science and engineering is a field that covers a wide spectrum of modern technology. A system can be seen as a collection of entities and their interrelationships, which forms a whole greater than the sum of the entities and interacts with people, organisations, cultures and activities and the interrelationships among them. Systems composed of autonomous subsystems are not new, but the increased complexity of modern technology demands ever more reliable, intelligent, robust and adaptable systems to meet evolving needs. This book presents papers delivered at the International Conference on System Science and Engineering (ICSSE2015), held in Morioka, Japan, in July 2015. Some of the topics covered here include: systems modeling, tools and simulation; cloud robotics and computing systems; systems safety and security; smart grid, human systems and industrial organization and management; and novel applications of systems engineering and systems architecture. Capturing as it does the latest state-of-the-art and challenges in system sciences and its supporting technology, this book will be of interest to all those involved in developing and using system science methodology, tools and techniques

Engineering Innovation Benjamin M. Legum 2019-07-08 Engineering Innovation is an overview of the interconnected business and product development techniques needed to nurture the development of raw, emerging technologies into commercially viable products. This book relates Funding Strategies, Business Development, and Product Development to one another as an idea is refined to a validated concept, iteratively developed into a product, then produced for commercialization. Engineering Innovation also provides an introduction to business strategies and manufacturing techniques on a technical level designed to encourage passionate clinicians, academics, engineers and savvy entrepreneurs. Offers a comprehensive overview of the process of bringing new technology to market. Identifies a variety of technology management skill sets and management tools. Explores concept generation in conjunction with intellectual property development for early-stage companies. Explores Quality and Transfer-to-Manufacturing.

System Integration Jeffrey O. Grady 1994-07-08 System Integration presents the systems approach to complex problem solving and provides a powerful base for both product and process integration. This unique reference describes 27 kinds of integration work, primarily obtained through human communications. Simple computer applications-already in place in most companies-have the resources to

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encourage the availability and sharing of current team knowledge, which results in an intense, cooperative experience leading rapidly to sound design solutions.

eWork and eBusiness in Architecture, Engineering and Construction: ECPPM 2016 Symeon Christodoulou 2017-03-27 eWork and eBusiness in Architecture, Engineering and Construction 2016 collects the papers presented at the 11th European Conference on Product & Process Modelling (ECPPM 2016, Cyprus, 7-9 September 2016), The contributions cover complementary thematic areas that hold great promise for the advancement of research and technological development in the modelling of complex engineering systems, encompassing a substantial number of high quality contributions on a large spectrum of topics pertaining to ICT deployment instances in AEC/FM, including: • Information and Knowledge Management • Construction Management • Description Logics and Ontology Application in AEC • Risk Management • 5D/nD Modelling, Simulation and Augmented Reality • Infrastructure Condition Assessment • Standardization of Data Structures • Regulatory and Legal Aspects • Multi-Model and distributed Data Management • System Identification • Industrialized Production, Smart Products and Services • Interoperability • Smart Cities • Sustainable Buildings and Urban Environments • Collaboration and Teamwork • BIM Implementation and Deployment • Building Performance Simulation • Intelligent Catalogues and Services

Cooperative Design, Visualization, and Engineering Yuhua Luo 2018-09-21 This book constitutes the refereed proceedings of the 15th International Conference on Cooperative Design, Visualization, and Engineering, CDVE 2018, held in Hangzhou, China, in October 2018. The 34 full papers presented in this book together with 15 short papers were carefully reviewed and selected from 75 submissions. The papers cover a broad range of topics in the field of cooperative visualization; cooperative design; cooperative engineering; basic theories, methods and technologies that support CDVE; and cooperative applications.

Social Network Engineering for Secure Web Data and Services Luca Caviglione 2013-01-01 "This book provides empirical research on the engineering of social network infrastructures, the development of novel applications, and the impact of social network- based services over the internet"--Provided by publisher.

Achieving DevOps Dave Harrison 2019-05-22 Ben is stuck. A development lead with a strong vision for how the intersection of development and operations at his office can be improved, he can't help but feel overwhelmed and discouraged by common problems such as slow turnaround time, rushed and ineffective handover documentation, mounting technical debt, and a lagging QA process. What steps should Ben take to build the momentum needed to create positive changes within his company? In this unique business novel by Dave Harrison and Knox Lively, two DevOps professionals with years of diverse experience in the industry, you follow Ben as he solves work frustrations in order to adopt Agile, DevOps, and microservices architectures for his organization. Achieving DevOps addresses the "Now what?" moment many DevOps professionals face on their journey. The story provides you with the knowledge you need to navigate the internal political waters, build management support, show measurable results, and bring DevOps successfully into your organization. Come away with practical lessons and timeless business concepts. You'll know how to effect change in a company from the bottom up, gain support, and instill a pattern of progressively building on success. Experience Ben's progress vicariously in Achieving DevOps and bridge the gap between inspiration and the implementation of your own DevOps practices. Who This Book Is For Those serving as change agents who are working to influence and move their organizations toward a DevOps approach to software development and deployment: those working to effect change from the bottom up such as development leads, QA leads, project managers, and individual developers; and IT directors, CTOs, and others at the top of an organization who are being asked to lend their support toward DevOps implementation efforts

The Fail-Safe Startup Tom Eisenmann 2021-04-01 'Creating something from nothing is a daring act. Tom's wisdom and encouragement will give any reader the confidence to take the leap.' Eric Ries, bestselling author of The Lean Startup _____ 90% of start-ups fail. But why?

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And is there a way to avoid the common pitfalls when you start your own business? Over the past 23 years at Harvard Business School Tom Eisenmann has helped launch thousands of startups. An astonishing 13 of these have reached unicorn status. For a decade he has explored the question of why startups fail and in The Fail-Safe Startup explains how you can succeed against the odds. Eisenmann's fascinating, often counter-intuitive, advice will help you avoid common mistakes including: * Launching too early * Aiming too high, too soon * And letting early success lead to misplaced confidence Drawing on case studies from startups of all shapes and sizes from around the world The Fail-Safe Startup will show you how to analyse the failure of others to ensure your success. _____ 'A must read for any entrepreneur, investor, or startup team member.' Michelle Zatlyn, CEO, Cloudfare 'Eisenmann has truly helped illuminate a path to success by shining a spotlight on common startup failure patterns. His insights are invaluable, whether you're just getting started, or you're eyeing your endgame.' Jenn Hyman, CEO, Rent the Runway

Fundamentals of Data Engineering Joe Reis 2022-06-22 Data engineering has grown rapidly in the past decade, leaving many software engineers, data scientists, and analysts looking for a comprehensive view of this practice. With this practical book, you'll learn how to plan and build systems to serve the needs of your organization and customers by evaluating the best technologies available through the framework of the data engineering lifecycle. Authors Joe Reis and Matt Housley walk you through the data engineering lifecycle and show you how to stitch together a variety of cloud technologies to serve the needs of downstream data consumers. You'll understand how to apply the concepts of data generation, ingestion, orchestration, transformation, storage, and governance that are critical in any data environment regardless of the underlying technology. This book will help you: Get a concise overview of the entire data engineering landscape Assess data engineering problems using an end-to-end framework of best practices Cut through marketing hype when choosing data technologies, architecture, and processes Use the data engineering lifecycle to design and build a robust architecture Incorporate data governance and security across the data engineering lifecycle

Advances in The Human Side of Service Engineering Louis Freund 2019-07-19 If there is any one element to the engineering of service systems that is unique, it is the extent to which the suitability of the system for human use, human service, and excellent human experience has been and must always be considered. An exploration of this emerging area of research and practice, Advances in the Human Side of Service Engineering covers a broad spectrum of ergonomics and human factors issues highlighting the design of contemporary service systems.

Fundamentals of Software Engineering Hossein Hojjat 2019-09-21 This book constitutes the thoroughly refereed post-conference proceedings of the 8th International Conference on Fundamentals of Software Engineering, FSEN 2019, held in Tehran, Iran, in May 2019. The 14 full papers and 3 short papers presented in this volume were carefully reviewed and selected from 47 submissions. The topics of interest in FSEN span over all aspects of formal methods, especially those related to advancing the application of formal methods in the software industry and promoting their integration with practical engineering techniques. The papers are organized in topical sections on agent based systems, theorem proving, learning, verification, distributed algorithms, and program analysis.

Weekly Summary of NLRB Cases United States. National Labor Relations Board. Division of Information 1993

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