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C++ Network Programming, Volume I

Mastering Complexity with ACE and Patterns, Portable Documents

FT Press **As networks, devices, and systems continue to evolve, software engineers face the unique challenge of creating reliable distributed applications within frequently changing environments. C++ Network Programming, Volume 1, provides practical solutions for developing and optimizing complex distributed systems using the ADAPTIVE Communication Environment (ACE), a revolutionary open-source framework that runs on dozens of hardware platforms and operating systems. This book guides software professionals through the traps and pitfalls of developing efficient, portable, and flexible networked applications. It explores the inherent design complexities of concurrent networked applications and the tradeoffs that must be considered when working to master them. C++ Network Programming begins with an overview of the issues and tools involved in writing distributed concurrent applications. The book then provides the essential design dimensions, patterns, and principles needed to develop flexible and efficient concurrent networked applications. The book's expert author team shows you how to enhance design skills while applying C++ and patterns effectively to develop object-oriented networked applications. Readers will find coverage of: C++ network programming, including an overview and strategies for addressing common development challenges The ACE Toolkit Connection protocols, message exchange, and message-passing versus shared memory Implementation methods for reusable networked application services Concurrency in object-oriented network programming Design principles and patterns for ACE wrapper facades With this book, C++ developers have at their disposal the most complete toolkit available for developing successful, multiplatform, concurrent networked applications with ease and efficiency.**

Designing Software-Intensive Systems: Methods and Principles

Methods and Principles

IGI Global **"This book addresses the complex issues associated with software engineering environment capabilities for designing real-time embedded software systems"--Provided by publisher.**

Pattern-Oriented Software Architecture, A Pattern Language for Distributed Computing

John Wiley & Sons **The eagerly awaited Pattern-Oriented Software Architecture (POSA) Volume 4 is about a pattern language for distributed computing. The authors will guide you through the best practices and introduce you to key areas of building distributed software systems. POSA 4 connects many stand-alone patterns, pattern collections and pattern languages from the existing body of literature found in the POSA series. Such patterns relate to and are useful for distributed computing to a single language. The panel of experts provides you with a consistent and coherent holistic view on the craft of building distributed systems. Includes a foreword by Martin Fowler A must read for practitioners who want practical advice to develop a comprehensive language integrating patterns from key literature.**

The Robotic Process Automation Handbook

A Guide to Implementing RPA Systems

Apress **While Robotic Process Automation (RPA) has been around for about 20 years, it has hit an inflection point because of the convergence of cloud computing, big data and AI. This book shows you how to leverage RPA effectively in your company to automate repetitive and rules-based processes, such as scheduling, inputting/transferring data, cut and paste, filling out forms, and search. Using practical aspects of implementing the technology (based on case studies and industry best practices), you'll see how companies have been able to realize substantial ROI (Return On Investment) with their implementations, such as by lessening the need for hiring or outsourcing. By understanding the core concepts of RPA, you'll also see that the technology significantly increases compliance – leading to fewer issues with regulations – and minimizes costly errors. RPA software revenues have recently soared by over 60 percent, which is the fastest ramp in the tech industry, and they are expected to exceed $1 billion by the end of 2019. It is generally seamless with legacy IT environments, making it easier for companies to pursue a strategy of digital transformation and can even be a gateway to AI. The Robotic Process Automation Handbook puts everything you need to know into one place to be a part of this wave. What You'll Learn Develop the right strategy and planDeal with resistance and fears from employeesTake an in-depth look at the leading RPA systems, including where they are most effective, the risks and the costsEvaluate an RPA system Who This Book Is For IT specialists and managers at mid-to-large companies**

Return on Impact

Leadership Strategies for the Age of Connected Relationships

John Wiley & Sons **Strategies for setting your association apart in today's socially enabled world Access to information is instantaneous. Social tools put professional networks within arm's reach. What are the leadership strategies that will allow your organization to create and support differentiating value and nurture ongoing relationships with your members? In Return on Impact: Leadership Strategies for the Age of Connected Relationships, Nour charts the implications of a socially enabled world and the reinvention—in structure and governance, talent acquisition, listening practices, and business and revenue models—that leaders of organizations must undertake to fuel growth in the next decade. More than another tactical book on social media or particular networking tools, Return on Impact is a strategy resource for associations designed to show you what will set your association or membership organization apart. Written by business-relationship expert David Nour, author of the bestselling Relationship Economics Created in association with the ASAE Foundation Provides specific strategy and practical models Covers structure and governance, talent acquisition, listening practices, and business and revenue models Return on Impact hands leaders the tools that associations and other membership organizations can wield in order to harness the opportunities of the socially enabled world and ensure their growth in the coming times.**

Information Rules

A Strategic Guide to the Network Economy

Harvard Business Press **As one of the first books to distill the economics of information and networks into practical business strategies, this is a guide to the winning moves that can help business leaders--from writers, lawyers and finance professional to executives in the entertainment, publishing and hardware and software industries-- navigate successfully through the information economy.**

Scientific and Technical Aerospace Reports

Clinical Practice Guidelines For Chronic Kidney Disease

The Future of Learning Institutions in a Digital Age

MIT Press **In this report, Cathy Davidson and David Theo Goldberg focus on the potential for shared and interactive learning made possible by the Internet. They argue that the single most important characteristic of the Internet is its capacity for world-wide community and the limitless exchange of ideas. The Internet brings about a way of learning that is not new or revolutionary but is now the norm for today's graduating high school and college classes. It is for this reason that Davidson and Goldberg call on us to examine potential new models of digital learning and rethink our virtually enabled and enhanced learning institutions.This report is available in a free digital edition on the MIT Press website at http://mitpress.mit.edu/9780262513593.John D. and Catherine T. MacArthur Foundation Reports on Digital Media and Learning**

Relationship Economics

Transform Your Most Valuable Business Contacts Into Personal and Professional Success

John Wiley & Sons **A revised and updated guide to bridging relationship creationwith relationship capitalization Relationship Economics isn't about taking advantage of friends or coworkers to get ahead. It's about prioritizing and maximizing a unique return on strategic relationships to fuel unprecedented growth. Based on the author's global speaking and consulting engagements, Relationship Economics reveals that success comes from investing in people for extraordinary returns. This revised and updated version explains the three major types of relationships—personal, functional, and strategic—and how to focus each to fuel enterprise growth. It introduces new concepts in relationship management, including the exchange of Relationship Currency, the accumulation of Reputation Capital, and the building of Professional Net Worth. These are the fundamental measures of business relationship, and once you understand them, you'll be able to turn your contacts into better executions, performance, and results. "David Nour is the definitive expert on strategic relationships. He has captured practical, pragmatic, and timely insights in Relationship Economics and has been a valuable resource to my sales transformation efforts." —RANDY SEIDL, Senior VP, Enterprise Servers, Storage and Networking, Americas, HP "Although many understand the importance of relationships, the quantifiable and strategic values of relationships are often underemphasized. David Nour has done just that in¿Relationship Economics." —CRAIG LEMASTERS, President and CEO, Assurant Solutions "If a man is judged by the company he keeps, David Nour's Relationship Economics provides a systematic approach to building value in that judgment. The concepts reach well beyond networking to building lasting and productive relationships." —DENNIS SADLOWSKI, former president and CEO, Siemens Energy & Automation, Inc.**

Beyond Politics

The Private Governance Response to Climate Change

Cambridge University Press **Private sector action provides one of the most promising opportunities to reduce the risks of climate change, buying time while governments move slowly or even oppose climate mitigation. Starting with the insight that much of the resistance to climate mitigation is grounded in concern about the role of government, this books draws on law, policy, social science, and climate science to demonstrate how private initiatives are already bypassing government inaction in the US and around the globe. It makes a persuasive case that private governance can reduce global carbon emissions by a billion tons per year over the next decade. Combining an examination of the growth of private climate initiatives over the last decade, a theory of why private actors are motivated to reduce emissions, and a review of viable next steps, this book speaks to scholars, business and advocacy group managers, philanthropists, policymakers, and anyone interested in climate change.**

Software Applications: Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools, and Applications

IGI Global **Includes articles in topic areas such as autonomic computing, operating system architectures, and open source software technologies and applications.**

Risk

A User's Guide

Penguin **From the bestselling author of Team of Teams and My Share of the Task, an entirely new way to understand risk and master the unknown. Retired four-star general Stan McChrystal has lived a life associated with the deadly risks of combat. From his first day at West Point, to his years in Afghanistan, to his efforts helping business leaders navigate a global pandemic, McChrystal has seen how individuals and organizations fail to mitigate risk. Why? Because they focus on the probability of something happening instead of the interface by which it can be managed. In this new book, General McChrystal offers a battle-tested system for detecting and responding to risk. Instead of defining risk as a force to predict, McChrystal and coauthor Anna Butrico show that there are in fact ten dimensions of control we can adjust at any given time. By closely monitoring these controls, we can maintain a healthy Risk Immune System that allows us to effectively anticipate, identify, analyze, and act upon the ever-present possibility that things will not go as planned. Drawing on examples ranging from military history to the business world, and offering practical exercises to improve preparedness, McChrystal illustrates how these ten factors are always in effect, and how by considering them, individuals and organizations can exert mastery over every conceivable sort of risk that they might face. We may not be able to see the future, but with McChrystal's hard-won guidance, we can improve our resistance and build a strong defense against what we know—and what we don't.**

Springer Handbook of Automation

Springer Science & Business Media **This handbook incorporates new developments in automation. It also presents a widespread and well-structured conglomeration of new emerging application areas, such as medical systems and health, transportation, security and maintenance, service, construction and retail as well as production or logistics. The handbook is not only an ideal resource for automation experts but also for people new to this expanding field.**

Pattern-Oriented Software Architecture, On Patterns and Pattern Languages

John Wiley & Sons **Software patterns have revolutionized the way developers think about how software is designed, built, and documented, and this unique book offers an in-depth look of what patterns are, what they are not, and how to use them successfully The only book to attempt to develop a comprehensive language that integrates patterns from key literature, it also serves as a reference manual for all pattern-oriented software architecture (POSA) patterns Addresses the question of what a pattern language is and compares various pattern paradigms Developers and programmers operating in an object-oriented environment will find this book to be an invaluable resource**

Harnessing Green IT

Principles and Practices

John Wiley & Sons **"Ultimately, this is a remarkable book, a practicaltestimonial, and a comprehensive bibliography rolled into one. Itis a single, bright sword cut across the various murky green ITtopics. And if my mistakes and lessons learned through the green ITjourney are any indication, this book will be used every day byfolks interested in greening IT." —Simon Y. Liu, Ph.D. & Ed.D.,Editor-in-Chief, IT Professional Magazine, IEEEComputer Society, Director, U.S. National AgriculturalLibrary This book presents a holistic perspective on Green IT bydiscussing its various facets and showing how to strategicallyembrace it Harnessing Green IT: Principles andPractices examines various ways of making computing andinformation systems greener – environmentally sustainable -,as well as several means of using Information Technology (IT) as atool and an enabler to improve the environmental sustainability.The book focuses on both greening of IT and greening by IT –complimentary approaches to attaining environmental sustainability. In a single volume, it comprehensively covers severalkey aspects of Green IT - green technologies, design, standards,maturity models, strategies and adoption -, and presents a clearapproach to greening IT encompassing green use, green disposal,green design, and green manufacturing. It also illustrates how tostrategically apply green IT in practice in several areas. Key Features: Presents a comprehensive coverage of key topics of importanceand practical relevance - green technologies, design,standards, maturity models, strategies and adoption Highlights several useful approaches to embracing green IT inseveral areas Features chapters written by accomplished experts from industryand academia who have first-hand knowledge and expertise inspecific areas of green IT Presents a set of review and discussion questions for eachchapter that will help the readers to examine and explore the greenIT domain further Includes a companion website providing resources forfurther information and presentation slides This book will be an invaluable resource for IT Professionals,academics, students, researchers, project leaders/managers, ITbusiness executives, CIOs, CTOs and anyone interested in Green ITand harnessing it to enhance our environment.**

WIPO Technology Trends 2019 - Artificial Intelligence

WIPO **The first report in a new flagship series, WIPO Technology Trends, aims to shed light on the trends in innovation in artificial intelligence since the field first developed in the 1950s.**

Reign of Error

The Hoax of the Privatization Movement and the Danger to America's Public Schools

Vintage **From one of the foremost authorities on education in the United States, former U.S. assistant secretary of education, "whistle-blower extraordinaire" (The Wall Street Journal), author of the best-selling The Death and Life of the Great American School System ("Important and riveting"—Library Journal), The Language Police ("Impassioned . . . Fiercely argued . . . Every bit as alarming as it is illuminating"—The New York Times), and other notable books on education history and policy—an incisive, comprehensive look at today's American school system that argues against those who claim it is broken and beyond repair; an impassioned but reasoned call to stop the privatization movement that is draining students and funding from our public schools. In Reign of Error, Diane Ravitch argues that the crisis in American education is not a crisis of academic achievement but a concerted effort to destroy public schools in this country. She makes clear that, contrary to the claims being made, public school test scores and graduation rates are the highest they've ever been, and dropout rates are at their lowest point. She argues that federal programs such as George W. Bush's No Child Left Behind and Barack Obama's Race to the Top set unreasonable targets for American students, punish schools, and result in teachers being fired if their students underperform, unfairly branding those educators as failures. She warns that major foundations, individual billionaires, and Wall Street hedge fund managers are encouraging the privatization of public education, some for idealistic reasons, others for profit. Many who work with equity funds are eyeing public education as an emerging market for investors. Reign of Error begins where The Death and Life of the Great American School System left off, providing a deeper argument against privatization and for public education, and in a chapter-by-chapter breakdown, putting forth a plan for what can be done to preserve and improve it. She makes clear what is right about U.S. education, how policy makers are failing to address the root causes of educational failure, and how we can fix it. For Ravitch, public school education is about knowledge, about learning, about developing character, and about creating citizens for our society. It's about helping to inspire independent thinkers, not just honing job skills or preparing people for college. Public school education is essential to our democracy, and its aim, since the founding of this country, has been to educate citizens who will help carry democracy into the future.**

Clinical Informatics Study Guide

Text and Review

Springer **This books provides content that arms clinicians with the core knowledge and competencies necessary to be effective informatics leaders in health care organizations. The content is drawn from the areas recognized by the American Council on Graduate Medical Education (ACGME) as necessary to prepare physicians to become Board Certified in Clinical Informatics. Clinical informaticians transform health care by analyzing, designing, selecting, implementing, managing, and evaluating information and communication technologies (ICT) that enhance individual and population health outcomes, improve patient care processes, and strengthen the clinician-patient relationship. As the specialty grows, the content in this book covers areas useful to nurses, pharmacists, and information science graduate students in clinical/health informatics programs. These core competencies for clinical informatics are needed by all those who lead and manage ICT in health organizations, and there are likely to be future professional certifications that require the content in this text.**

Intraoperative Imaging

Springer Science & Business Media **Intraoperative imaging technologies have taken an ever-increasing role in the daily practice of neurosurgeons and the increasing attention and interest necessitated international interaction and collaboration. The Intraoperative Imaging Society was formed in 2007. This book brings together highlights from the second meeting of the Intraoperative Imaging Society, which took place in Istanbul-Turkey from June 14 to 17, 2009. Included within the contents of the book is an overview of the emergence and development of the intraoperative imaging technology as well as a glimpse on where the technology is heading. This is followed by in detail coverage of intraoperative MRI technology and sections on intraoperative CT and ultrasonography. There are also sections on multimodality integration, intraoperative robotics and other intraoperative technologies. We believe that this book will provide an up-to date and comprehensive general overview of the current intraoperative imaging technology as well as detailed discussions on individual techniques and clinical results.**

Introduction to Mass Spectrometry

Instrumentation, Applications, and Strategies for Data Interpretation

John Wiley & Sons **Completely revised and updated, this text provides an easy-to-read guide to the concept of mass spectrometry and demonstrates its potential and limitations. Written by internationally recognised experts and utilising "real life" examples of analyses and applications, the book presents real cases of qualitative and quantitative applications of mass spectrometry. Unlike other mass spectrometry texts, this comprehensive reference provides systematic descriptions of the various types of mass analysers and ionisation, along with corresponding strategies for interpretation of data. The book concludes with a comprehensive 3000 references. This multi-disciplined text covers the fundamentals as well as recent advance in this topic, providing need-to-know information for researchers in many disciplines including pharmaceutical, environmental and biomedical analysis who are utilizing mass spectrometry**

Organization Theory and Design

An International Perspective

Organizing involves continous challenges in the face of uncertainty and change. How is globalization impacting organizations? How will new strategies for a turbulent world affect organizational design?In this second edition of Organization Theory and Design, developed for students in the UK, Europe, the Middle East and Africa, respected academics Jonathan Murphy and Hugh Willmott continue to add an international perspective to Richard L. Daft's landmark text. Together they tackle these questions in a comprehensive, clear and accessible study of the subject.

Design Requirements Engineering: A Ten-Year Perspective

Design Requirements Workshop, Cleveland, OH, USA, June 3-6, 2007, Revised and Invited Papers

Springer Science & Business Media **Since its inception in 1968, software engineering has undergone numerous changes. In the early years, software development was organized using the waterfall model, where the focus of requirements engineering was on a frozen requirements document, which formed the basis of the subsequent design and implementation process. Since then, a lot has changed: software has to be developed faster, in larger and distributed teams, for pervasive as well as large-scale applications, with more flexibility, and with ongoing maintenance and quick release cycles. What do these ongoing developments and changes imply for the future of requirements engineering and software design? Now is the time to rethink the role of requirements and design for software intensive systems in transportation, life sciences, banking, e-government and other areas. Past assumptions need to be questioned, research and education need to be rethought. This book is based on the Design Requirements Workshop, held June 3-6, 2007, in Cleveland, OH, USA, where leading researchers met to assess the current state of affairs and define new directions. The papers included were carefully reviewed and selected to give an overview of the current state of the art as well as an outlook on probable future challenges and priorities. After a general introduction to the workshop and the related NSF-funded project, the contributions are organized in topical sections on fundamental concepts of design; evolution and the fluidity of design; quality and value-based requirements; requirements intertwining; and adapting requirements practices in different domains.**

The Foreign Corrupt Practices Act Handbook

A Practical Guide for Multinational General Counsel, Transactional Lawyers and White Collar Criminal Practitioners

American Bar Association **Identifies all of the major FCPA risk areas and then offers very thoughtful and practical suggestions for how companies can most effectively address these risks and conduct credible investigations. You'll find information on anti-bribery conventions; board of directors and management responsibilities; transaction issues and considerations; gifts, travel, lodging and entertainment; charitable donations and political contributions; and conducting and defending an FCPA Investigation.**

Automotive Embedded Systems Handbook

CRC Press **A Clear Outline of Current Methods for Designing and Implementing Automotive Systems Highlighting requirements, technologies, and business models, the Automotive Embedded Systems Handbook provides a comprehensive overview of existing and future automotive electronic systems. It presents state-of-the-art methodological and technical solutions in the areas of in-vehicle architectures, multipartner development processes, software engineering methods, embedded communications, and safety and dependability assessment. Divided into four parts, the book begins with an introduction to the design constraints of automotive-embedded systems. It also examines AUTOSAR as the emerging de facto standard and looks at how key technologies, such as sensors and wireless networks, will facilitate the conception of partially and fully autonomous vehicles. The next section focuses on networks and protocols, including CAN, LIN, FlexRay, and TTCAN. The third part explores the design processes of electronic embedded systems, along with new design methodologies, such as the virtual platform. The final section presents validation and verification techniques relating to safety issues. Providing domain-specific solutions to various technical challenges, this handbook serves as a reliable, complete, and well-documented source of information on automotive embedded systems.**

Business Ethics

Analytics, Data Science, and Artificial Intelligence

Systems for Decision Support, Global Edition

For courses in decision support systems, computerized decision-making tools, and management support systems. Market-leading guide to modern analytics, for better business decisionsAnalytics, Data Science, & Artificial Intelligence: Systems for Decision Support is the most comprehensive introduction to technologies collectively called analytics (or business analytics) and the fundamental methods, techniques, and software used to design and develop these systems. Students gain inspiration from examples of organisations that have employed analytics to make decisions, while leveraging the resources of a companion website. With six new chapters, the 11th edition marks a major reorganisation reflecting a new focus -- analytics and its enabling technologies, including AI, machine-learning, robotics, chatbots, and IoT.

Focus Groups

Theory and Practice

SAGE **Publisher description**

Digital Learning: The Key Concepts

Routledge **The new edition of Digital Learning: The Key Concepts is the perfect reference for anyone seeking to navigate the myriad of named concepts, approaches, issues and technologies associated with digital learning. Key terms are explained succinctly, making this book ideal to dip into for a quick answer, or to read from cover-to-cover, in order to gain a mastery of how digital concepts fit within the world of education. Fully updated to include important developments in digital practice and technology in education over the last ten years, this book takes the reader from A to Z through a range of relevant topics including: • Course design • Digital scholarship • Learning design • Open education • Personal learning environments • Social media and social networking. Ideal as an introductory guide, or as a reference book for ongoing referral, this quick-to-use and comprehensive guide is fully crossreferenced and complete with suggestions for further reading and exploration, making it an essential resource for anyone looking to extend their understanding of digital practices, techniques and pedagogic concepts.**

Damsels in Design

Women Pioneers in the Automotive Industry, 1939-1959

Schiffer Publishing **In the mid-1950s, an innovative group of women at General Motors (dubbed the Damsels of Design by marketers) and their counterparts at Ford, Hudson, Studebaker, Packard, and Tucker changed automotive history forever. Read the untold story of the women who excelled in the Mad Men era of automobile and industrial design. Recruited by top CEOs at automotive companies, they developed many of the products we take for granted today. Learn about Helene Rother, who designed the instrument panel, hardware, and seat construction for midcentury Cadillacs; Elizabeth Thatcher Oros, the first female trained in industrial design; and discover the history behind the child safety seat latch and car doors with lights. An extraordinary story of exceptional women, Damsels in Design sheds light on those who have too long been in the shadows.**

Learning Spaces

A Guide to Authentic e-Learning

Routledge **Part of the groundbreaking Connecting with e-Learning series, A Guide to Authentic e-Learning provides effective, working examples to engage learners with authentic tasks in online settings. As technology continues to open up possibilities for innovative and effective teaching and learning opportunities, students and teachers are no longer content to accept familiar classroom or lecture-based pedagogies that rely on information delivery and little else. Situated and constructivist theories advocate that learning is best achieved in circumstances resembling the real-life application of knowledge. While there are multiple learning design models that share similar foundations, authentic e-learning tasks go beyond process to become complex, sustained activities that draw on realistic situations to produce realistic outcomes. A Guide to Authentic e-Learning: develops the conceptual framework for authentic learning tasks in online environments provides practical guidance on design, implementation, and evaluation of authentic e-learning tasks includes case studies and examples of outcomes of using authentic e-learning tasks Written for teaching professionals in Higher Education who teach online, A Guide to Authentic e-Learning offers concrete guidelines and examples for developing and implementing authentic e-learning tasks in ways that challenge students to maximize their learning. This essential book provides effective, working examples to engages learners with authentic tasks in online learning settings.**

Smart Cities: Big Data, Civic Hackers, and the Quest for a New Utopia

W. W. Norton & Company **An unflinching look at the aspiring city-builders of our smart, mobile, connected future. From Beijing to Boston, cities are deploying smart technology—sensors embedded in streets and subways, Wi-Fi broadcast airports and green spaces—to address the basic challenges faced by massive, interconnected metropolitan centers. In Smart Cities, Anthony M. Townsend documents this emerging futuristic landscape while considering the motivations, aspirations, and shortcomings of the key actors—entrepreneurs, mayors, philanthropists, and software developers—at work in shaping the new urban frontier.**

The Development Of Large Technical Systems

Routledge **This book is an outcome of the conference on the development of large technical systems held in Berlin in 1986. It focuses on the comparative analysis of the development of large technical systems, particularly electrical power, railroad, air traffic, telephone, and other forms of telecommunication.**

A Gift of Fire

Social, Legal, and Ethical Issues for Computing Technology

Prentice Hall **This timely revision will feature the latest Internet issues and provide an updated comprehensive look at social and ethical issues in computing from a computer science perspective.**

Current Law Index

Digital Transformation and Public Services (Open Access)

Societal Impacts in Sweden and Beyond

Routledge **Through a series of studies, the overarching aim of this book is to investigate if and how the digitalization/digital transformation process affects various welfare services provided by the public sector, and the ensuing implications thereof. Ultimately, this book seeks to understand if it is conceivable for digital advancement to result in the creation of private/non-governmental alternatives to welfare services, possibly in a manner that transcends national boundaries. This study also investigates the possible ramifications of technological development for the public sector and the Western welfare society at large. This book takes its point of departure from the 2016 Organization for Economic Co-operation and Development (OECD) report that targets specific public service areas in which government needs to adopt new strategies not to fall behind. Specifically, this report emphasizes the focus on digitalization of health care/social care, education, and protection services, including the use of assistive technologies referred to as "digital welfare." Hence, this book explores the factors potentially leading to whether state actors could be overrun by other non-governmental actors, disrupting the current status quo of welfare services. The book seeks to provide an innovative, enriching, and controversial take on society at large and how various aspects of the public sector can be, and are, affected by the ongoing digitalization process in a way that is not covered by extant literature on the market. This book takes its point of departure in Sweden given the fact that Sweden is one of the most digitalized countries in Europe, according to the Digital Economy and Society Index (DESI), making it a pertinent research case. However, as digitalization transcends national borders, large parts of the subject matter take on an international angle. This includes cases from several other countries around Europe as well as the United States.**

Medical Image Analysis

Academic Press **Medical imaging is increasingly at the base of many fundamental breakthroughs in biomedical sciences, becoming a fundamental enabling technology of biomedical scientific progress. This book presents practical knowledge on medical image computing and analysis Written by top educators and experts in the field, this text is a modern, practical, broad, and self-contained reference that conveys a mix of fundamental methodological concepts within different medical domains, reflecting the nature of the discipline today. Learn: The core representations and properties of digital images and image enhancement techniques Advanced image computing methods including segmentation, registration, motion and shape analysis, and machine learning How medical image computing (MIC) is used in clinical and medical research How to identify alternative strategies and employ software tools to solve typical problems in MIC An authoritative description of key concepts and methods Tutorial-based sections that clearly explain the principles and their application to different medical domains Self-contained chapters provide flexibility, allowing the text to be used on courses with different structures A representative selection of topics to match a modern and relevant approach to medical image computing Focus on medical image computing as a technology to meet clinical needs**

Handbook on Innovations in Learning

IAP **An innovation in learning improves upon the implementation of the standard practice or introduces a new practice, thus achieving greater learning outcomes. The Handbook on Innovations in Learning, developed by the Center on Innovations in Learning, presents commissioned chapters describing current best practices of instruction before embarking on descriptions of selected innovative practices which promise better methods of engaging and teaching students. Written by a diverse and talented field of experts, chapters in the Handbook seek to facilitate the adoption of the innovative practices they describe by suggesting implementation policies and procedures to leaders of state and local education agencies.**

Pattern-Oriented Software Architecture, Patterns for Concurrent and Networked Objects

John Wiley & Sons Incorporated **Designing application software to run in distributed and concurrent environments is a challenge facing software developers. These patterns form the basis of a pattern language that address issues of distribution, concurrency and networking.**