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Total Knee Arthroplasty Createspace Independent Pub
Provides information on designing easy-to-use interfaces.

Adsensory Financialisation National Academies Press

Sleep and Health provides an accessible yet comprehensive overview of the relationship between sleep and health at the individual, community and population levels, as well as a discussion of the implications for public health, public policy and interventions. Based on a firm foundation in many areas of sleep health research, this text further provides introductions to each sub-area of the field and a summary of the current research for each area. This book serves as a resource for those interested in learning about the growing field of sleep health research, including sections on social determinants, cardiovascular disease, cognitive functioning, health behavior theory, smoking, and more. Highlights the important role of sleep across a wide range of topic areas Addresses important topics such as sleep disparities, sleep and cardiometabolic disease risk, real-world effects of sleep deprivation, and public policy implications of poor sleep Contains accessible reviews that point to relevant literature in often-overlooked areas, serving as a helpful guide to all relevant information on this broad topic area

Sensor Technologies Adsensory Financialisation

Adsensory FinancialisationCambridge Scholars Publishing

Practical Internet of Things Security Lippincott Williams & Wilkins

This book provides an overview of the current Internet of Things (IoT) landscape, ranging from the research, innovation and development priorities to enabling technologies in a global context. A successful deployment of IoT technologies requires integration on all layers, be it cognitive and

semantic aspects, middleware components, services, edge devices/machines and infrastructures. It is intended to be a standalone book in a series that covers the Internet of Things activities of the IERC - Internet of Things European Research Cluster from research to technological innovation, validation and deployment. The book builds on the ideas put forward by the European Research Cluster and the IoT European Platform Initiative (IoT-EPI) and presents global views and state of the art results on the challenges facing the research, innovation, development and deployment of IoT in the next years. The IoT is bridging the physical world with virtual world and requires sound information processing capabilities for the "digital shadows" of these real things. The research and innovation in nanoelectronics, semiconductor, sensors/actuators, communication, analytics technologies, cyber-physical systems, software, swarm intelligent and deep learning systems are essential for the successful deployment of IoT applications. The emergence of IoT platforms with multiple functionalities enables rapid development and lower costs by offering standardised components that can be shared across multiple solutions in many industry verticals. The IoT applications will gradually move from vertical, single purpose solutions to multi-purpose and collaborative applications interacting across industry verticals, organisations and people, being one of the essential paradigms of the digital economy. Many of those applications still have to be identified and involvement of end-users including the creative sector in this innovation is crucial. The IoT applications and deployments as integrated building blocks of the new digital economy are part of the accompanying IoT policy framework to address issues of horizontal nature and common interest (i.e. privacy, end-to-end security, user acceptance, societal, ethical aspects and legal issues) for providing trusted IoT solutions in a coordinated and consolidated manner across the IoT activities and pilots. In this, context IoT ecosystems offer solutions beyond a platform and solve important technical challenges in the different verticals and across verticals. These IoT technology ecosystems are instrumental for the deployment of large pilots and can easily be connected to or build upon the core IoT solutions for different applications in order to expand the system of use and allow new and even unanticipated IoT end uses. Technical topics discussed in the book include: IntroductionDigitising industry and IoT as key enabler in the new era of Digital EconomyIoT Strategic Research and Innovation Agenda IoT in the digital industrial context: Digital Single MarketIntegration of heterogeneous systems and bridging the virtual, digital and physical worldsFederated IoT platforms and interoperabilityEvolution from intelligent devices to connected systems of systems by adding new layers of cognitive behaviour, artificial intelligence and

user interfaces. Innovation through IoT ecosystemsTrust-based IoT end-to-end security, privacy framework User acceptance, societal, ethical aspects and legal issuesInternet of Things Applications
Navigating the Digital Age "O'Reilly Media, Inc."

Adsensory technology presupposes a neoliberal entrepreneurial self as an integral feature of its biopolitical financialisation of healthcare regimes. According to Michel Foucault, neoliberalism is indebted to the endeavour of its self-disciplined subjects, investing human capital in a self-regulated, entrepreneurial pursuit of responsible healthcare and well-being. Primarily informed by social network analytics and virtual ethnographic observations, this book identifies the biopolitical basis of adsensory technologies. It argues that a paradoxical feature of adsensory technologies dissimulating “that there is nothing” (Jean Baudrillard) is the proliferation of risk. This is because the dissimulation of nothing opens up the possibility that “everything can be a risk, in so far as the type of event it falls under can be treated according to the principles of insurance technology” (Francois Ewald). Adsensory wearable technologies are called upon as “a strategy of deterrence” (Jean Baudrillard) to indemnify capitalism’s production of signs which dissimulate their simulation. In a context in which much that was certain now feigns its own existence, the insurance professed by adsensory technologies provides for an unrealisable guarantee against indefinable unknowable risks. Based also on case studies of European Court of Justice personal finance insurance rulings, this book engages critically with the neoliberal construct of the entrepreneurial lifestyle insurance subject. Social network analytics are utilised here to map bio-technology onto neoliberal regimes of financialised well-being and healthcare provision. In so doing, the book situates adsensory technologies within the marketising healthcare management programmes that are currently aligning the neoliberal reengineering of health and well-being citizenship with the biopolitical healthcare financialisation of populations. Paradoxically, in their endeavour to actor network virtual well-being health communities, adsensory technologies proliferate the individuating marketised conditions of neoliberal self-regulating entrepreneurialism. This gives rise to aleatory materialist dialectics of financialised surveillance far exceeding the regulatory time and space modalities of Foucauldian panoptics and Mathiesen synoptics. Adsensory technologies are integral to a seismic transformation in the cultural economies of time presently eliding digital advertising and insurantal technologies. Axiomatic with the synchronic times of the adsensory technologies valorised by lifestyle insurance, much riskier asynchronic embodied times, transgressively dissimulating the limits of financialisation, are beginning to emerge.

Team Dog Springer

Designing for Healthy Lifestyles assesses different design approaches to common features of mobile wellness applications and discusses the tradeoffs inherent in those approaches. It also outlines the key challenges that HCI researchers and designers will need to address to move the state of the art for mobile wellness technologies forward.

The Stack Springer Publishing Company

In recent years, microelectromechanical system (MEMS) inertial sensors (3D accelerometers and 3D gyroscopes) have become widely available due to their small size and low cost. Inertial sensor measurements are obtained at high sampling rates and can be integrated to obtain position and orientation information. These estimates are accurate on a short time scale, but suffer from integration drift over longer time scales. To overcome this issue, inertial sensors are typically combined with additional sensors and models. In this tutorial we focus on the signal processing aspects of position and orientation estimation using inertial sensors. We discuss different modeling choices and a selected number of important algorithms. The algorithms include optimization-based smoothing and filtering as well as computationally cheaper extended Kalman filter and complementary filter implementations. The

quality of their estimates is illustrated using both experimental and simulated data.

The Complete Book of Running Springer Nature

Take a complete tour of the Fitbit ecosystem From Fitbit features to the Fitbit app to the social features of Fitbit.com, this approachable book covers everything you need to know to get the most out of your Fitbit wristband or watch. Whether you’re a fitness newcomer, a regular walker, or a long-time exerciser, your Fitbit is a powerful device that can tell you much more than how many steps you take each day. This book offers easy-to-follow, step-by-step instructions for tracking all that data and getting the most out of your Fitbit investment. Go beyond steps to track sleep, heart rate, weight, and more Set up your health and fitness goals — then go for them! Connect to third-party apps such as Strava and Weight Watchers Stay motivated by sharing your activities with friends It’s one thing to simply wear your Fitbit, but it’s quite another to use your Fitbit to reach your personal health goals. Whether that goal is to get fit, lose weight, eat better, or reduce stress, your Fitbit has settings and features that can help you get there. And this book shows you how!

Mobile Forensic Investigations: A Guide to Evidence Collection, Analysis, and Presentation, Second Edition Createspace Independent Publishing Platform

This book focuses on the human aspects of wearable technologies and game design, which are often neglected. It shows how user centered practices can optimize wearable experience, thus improving user acceptance, satisfaction and engagement towards novel wearable gadgets. It describes both research and best practices in the applications of human factors and ergonomics to sensors, wearable technologies and game design innovations, as well as results obtained upon integration of the wearability principles identified by various researchers for aesthetics, affordance, comfort, contextual-awareness, customization, ease of use, ergonomics, intuitiveness, obtrusiveness, information overload, privacy, reliability, responsiveness, satisfaction, subtlety, user friendliness and wearability. The book is based on the AHFE 2018 Conference on Human Factors and Wearable Technologies and the AHFE 2018 Conference on Human Factors in Game Design and Virtual Environments , held on July 21–25, 2018 in Orlando, Florida, and addresses professionals, researchers, and students dealing with the human aspects of wearable, smart and/or interactive technologies and game design research.

Mobile Unleashed IBM Redbooks

The recent digital and mobile revolutions are a minor blip compared to the next wave of technological change, as everything from robot swarms to skin-top embeddable computers and bio printable organs start appearing in coming years. In this collection of inspiring essays, designers, engineers, and researchers discuss their approaches to experience design for groundbreaking technologies. Design not only provides the framework for how technology works and how it’s used, but also places it in a broader context that includes the total ecosystem with which it interacts and the possibility of unintended consequences. If you’re a UX designer or engineer open to complexity and dissonant ideas, this book is a revelation. Contributors include: Stephen Anderson, PoetPainter, LLC Lisa Caldwell, Brazen UX Martin Charlier, Independent Design Consultant Jeff Faneuff, Carbonite Andy Goodman, Fjord US Camille Goudeseune, Beckman Institute, University of Illinois at Urbana-Champaign Bill Hartman, Essential Design Steven Keating, MIT Media Lab, Mediated Matter Group Brook Kennedy, Virginia Tech Dirk Knemeyer, Involution Studios Barry Kudrowitz, University of Minnesota Gershom Kutliroff, Omek Studio at Intel Michal Levin, Google Matt Nish-Lapidus, Normative Erin Rae Hoffer, Autodesk Marco Righetto, SumAll Juhan Sonin, Involution Studios Scott Stropkay, Essential Design Scott Sullivan, Adaptive Path Hunter Whitney, Hunter Whitney and Associates, Inc. Yaron Yanai, Omek Studio at Intel

Critical, Transdisciplinary and Embodied Approaches in STEM Education Apress

Physical Activity in Public Health Practice provides the first evidence-based, practical textbook to guide readers through the process of conceptualizing, justifying, implementing, and evaluating physical activity interventions across a broad array of settings and populations. Section One begins with an

overview of epidemiology, measurement, critical milestones, and the importance of moving beyond individual-level physical activity intervention, to interventions aimed at policy-, systems-, and environmental-level changes. Section Two considers planning interventions across a variety of settings and populations, including general concepts for implementation and evaluation, how to build effective coalitions, steps for developing community-, regional- or state-level strategic plans, and effectively translating policy into practice. Section Three addresses how to implement physical activity strategies across a variety of settings, including worksites, faith-based settings, healthcare settings, schools, and parks and recreation. This section also provides guidance on the complexities and challenges of targeting interventions for specific populations, such as families, older adults, persons with disabilities, as well as different strategies for urban and rural populations. Lastly, Section Four outlines effective strategies for how to evaluate interventions depending upon impact, outcome, and cost evaluation, and dissemination models for your intervention. Presented from both a research and a practice perspective while discussing the best available research, this book provides the basis for planning and implementing physical activity programs that work and can build healthier communities. This hands-on text incorporates learning objectives, real-world examples, case studies, and bulleted lists whenever possible so that the content can be digested easily not only in undergraduate and graduate course settings but also by public health workers and other health educators in practice. Written by world experts and augmented by practical applications, this textbook prepares public health students and practitioners to develop effective interventions and spur greater physical activity in their communities. Key Features: Provides effective strategies for properly measuring and increasing physical activity in communities Demonstrates how to carry out physical activity interventions across a variety of settings, including schools, communities, worksites and many more Discusses methods for directing physical activity interventions to specific populations Delivers strategies for building successful partnerships and coalitions Practical group activities, exercises, discussion questions, audio podcast discussions, and a full instructor packet accompany the textbook

Research in Attacks, Intrusions, and Defenses Academic Press

"Planning, Implementing, and Evaluating Health Promotion Programs: A Primer," provides readers with a comprehensive overview of the practical and theoretical skills needed to plan, implement, and evaluate health promotion programs in a variety of settings. The "Fifth Edition" features updated information throughout, including new theories and models such as the Healthy Action Process Approach (HAPA) and the Community Readiness Model (CRM), sections on grant writing and preparing a budget, real-life examples of marketing principles and processes, and a new classification system for evaluation approaches and designs. Health Education, Health Promotion, Health Educators, and Program Planning, Models for Program Planning in Health Promotion, Starting the Planning Process, Assessing Needs, Measurement, Measures, Measurement Instruments and Sampling, Mission Statement, Goals, and Objectives, Theories and Models Commonly Used for Health Promotion Interventions, Interventions, Community Organizing and Community Building, Identification and Allocation of Resources, Marketing: Making Sure Programs Respond to Wants and Needs of Consumers, Implementation: Strategies and Associated Concerns, Evaluation: An Overview, Evaluation Approaches and Designs, Data Analysis and Reporting. Intended for those interested in learning the basics of planning, implementing, and evaluating health promotion programs

Building Resilience for Success Triumph Books

This book provides state-of-the-art contemporary research insights into key applications and processes in open world learning. Open world learning seeks to understand access to education, structures, and the presence of dialogue and support systems. It explores how the application of open world and educational technologies can be used to create opportunities for open and high-quality education. Presenting ground-breaking research from an

award winning Leverhulme doctoral training programme, the book provides several integrated and cohesive perspectives of the affordances and limitations of open world learning. The chapters feature a wide range of open world learning topics, ranging from theoretical and methodological discussions to empirical demonstrations of how open world learning can be effectively implemented, evaluated, and used to inform theory and practice. The book brings together a range of innovative uses of technology and practice in open world learning from 387,134 learners and educators learning and working in 136 unique learning contexts across the globe and considers the enablers and disablers of openness in learning, ethical and privacy implications, and how open world learning can be used to foster inclusive approaches to learning across educational sectors, disciplines and countries. The book is unique in exploring the complex, contradictory and multi-disciplinary nature of open world learning at an international level and will be of great interest to academics, researchers, professionals, and policy makers in the field of education technology, e-learning and digital education.

My Sleep Log National Academies Press

This is the origin story of technology super heroes: the creators and founders of ARM, the company that is responsible for the processors found inside 95% of the world's mobile devices today. This is also the evolution story of how three companies - Apple, Samsung, and Qualcomm - put ARM technology in the hands of billions of people through smartphones, tablets, music players, and more. It was anything but a straight line from idea to success for ARM. The story starts with the triumph of BBC Micro engineers Steve Furber and Sophie Wilson, who make the audacious decision to design their own microprocessor - and it works the first time. The question becomes, how to sell it? Part I follows ARM as its founders launch their own company, select a new leader, a new strategy, and find themselves partnered with Apple, TI, Nokia, and other companies just as digital technology starts to unleash mobile devices. ARM grows rapidly, even as other semiconductor firms struggle in the dot com meltdown, and establishes itself as a standard for embedded RISC processors. Apple aficionados will find the opening of Part II of interest the moment Steve Jobs returns and changes the direction toward fulfilling consumer dreams. Samsung devotees will see how that firm evolved from its earliest days in consumer electronics and semiconductors through a philosophical shift to innovation. Qualcomm followers will learn much of their history as it plays out from satellite communications to development of a mobile phone standard and emergence as a leading fabless semiconductor company. If ARM could be summarized in one word, it would be "collaboration." Throughout this story, from Foreword to Epilogue, efforts to develop an ecosystem are highlighted. Familiar names such as Google, Intel, Mediatek, Microsoft, Motorola, TSMC, and others are interwoven throughout. The evolution of ARM's first 25 years as a company wraps up with a shift to its next strategy: the Internet of Things, the ultimate connector for people and devices. Research for this story is extensive, simplifying a complex mobile industry timeline and uncovering critical points where ARM and other companies made fateful and sometimes surprising decisions. Rare photos, summary diagrams and tables, and unique perspectives from insiders add insight to this important telling of technology history.

Using Inertial Sensors for Position and Orientation Estimation Benjamin-Cummings Publishing Company

An introduction to marketing concepts, strategies and practices with a balance of depth of coverage and ease of learning. Principles of Marketing keeps pace with a rapidly changing field, focussing on the ways brands create and capture consumer value. Practical content and linkage are at the heart of this edition. Real local and international examples bring ideas to life and new feature 'linking the concepts'

helps students test and consolidate understanding as they go. The latest edition enhances understanding with a unique learning design including revised, integrative concept maps at the start of each chapter, end-of-chapter features summarising ideas and themes, a mix of mini and major case studies to illuminate concepts, and critical thinking exercises for applying skills.

Advances in Human Factors in Wearable Technologies and Game Design "O'Reilly Media, Inc."

Over the past decade, integrated STEM education research has emerged as an international concern, creating around it an imperative for technological and disciplinary innovation and a global resurgence of interest in teaching and learning to code at the K-16 levels. At the same time, issues of democratization, equity, power and access, including recent decolonizing efforts in public education, are also beginning to be acknowledged as legitimate issues in STEM education. Taking a reflexive approach to the intersection of these concerns, this book presents a collection of papers making new theoretical advances addressing two broad themes: Transdisciplinary Approaches in STEM Education and Bodies, Hegemony and Decolonization in STEM Education. Within each theme, praxis is of central concern including analyses of teaching and learning that re-imagines disciplinary boundaries and domains, the relationship between Art and STEM, and the design of learning technologies, spaces and environments. In addition to graduate research seminars at the Masters and PhD levels in Learning Sciences, Science Education, Educational Technology and STEM education, this book could also serve as a textbook for graduate and pre-service teacher education courses.

Open World Learning Packt Publishing Ltd

Sensor Technologies: Healthcare, Wellness and Environmental Applications explores the key aspects of sensor technologies, covering wired, wireless, and discrete sensors for the specific application domains of healthcare, wellness and environmental sensing. It discusses the social, regulatory, and design considerations specific to these domains. The book provides an application-based approach using real-world examples to illustrate the application of sensor technologies in a practical and experiential manner. The book guides the reader from the formulation of the research question, through the design and validation process, to the deployment and management phase of sensor applications. The processes and examples used in the book are primarily based on research carried out by Intel or joint academic research programs. "Sensor Technologies: Healthcare, Wellness and Environmental Applications provides an extensive overview of sensing technologies and their applications in healthcare, wellness, and environmental monitoring. From sensor hardware to system applications and case studies, this book gives readers an in-depth understanding of the technologies and how they can be applied. I would highly recommend it to students or researchers who are interested in wireless sensing technologies and the associated applications." Dr. Benny Lo Lecturer, The Hamlyn Centre, Imperial College of London "This timely addition to the literature on sensors covers the broad complexity of sensing, sensor types, and the vast range of existing and emerging applications in a very clearly written and accessible manner. It is particularly good at capturing the exciting possibilities that will occur as sensor networks merge with cloud-based 'big data' analytics to provide a host of new applications that will impact directly on the individual in ways we cannot fully predict at present. It really brings this home through the use of carefully chosen case studies that bring the overwhelming concept of 'big data' down to the personal level of individual life and health." Dermot Diamond Director, National Centre for Sensor Research, Principal Investigator, CLARITY Centre for Sensor Web Technologies, Dublin City University "Sensor Technologies: Healthcare, Wellness and Environmental Applications takes the reader on an end-to-end journey of sensor technologies, covering the fundamentals from an engineering perspective, introducing how the data gleaned can be both processed and visualized, in addition to offering exemplar case studies in a number of application domains. It is a must-read for those studying any undergraduate course that involves sensor technologies. It also provides a thorough foundation for those involved in the research and development of applied sensor systems. I highly recommend it to any engineer who wishes to broaden their knowledge in this area!" Chris Nugent Professor of Biomedical Engineering, University of Ulster

Age of Context Springer Nature

Welcome to the all-new second edition of Navigating the Digital Age. This edition brings together more than 50 leaders and visionaries from business, science, technology, government, academia, cybersecurity, and law enforcement. Each has contributed an exclusive chapter designed to make us think in depth about the ramifications of this digital world we are creating. Our purpose is to shed light on the vast possibilities that digital technologies present for us, with an emphasis on solving the existential challenge of cybersecurity. An important focus of the book is centered on doing business in the Digital Age-particularly around the need to foster a mutual understanding between technical and non-technical executives when it comes to the existential issues surrounding cybersecurity. This book has come together in three parts. In Part 1, we focus on the future of threat and risks. Part 2 emphasizes lessons from today's world, and Part 3 is designed to help you ensure you are covered today. Each part has its own flavor and personality, reflective of its goals and purpose. Part 1 is a bit more futuristic, Part 2 a bit more experiential, and Part 3 a bit more practical. How we work together, learn from our mistakes, deliver a secure and safe digital future-those are the elements that make up the core thinking behind this book. We cannot afford to be complacent. Whether you are a leader in business, government, or education, you should be knowledgeable, diligent, and action-oriented. It is our sincerest hope that this book provides answers, ideas, and inspiration. If we fail on the cybersecurity front, we put all of our hopes and aspirations at risk. So we start this book with a simple proposition: When it comes to cybersecurity, we must succeed.

Designing Interfaces Verso Books

The world is being transformed physically and politically. Technology is the handmaiden of much of this change. But since the current sweep of global change is transforming the face of warfare, Special Operations Forces (SOF) must adapt to these circumstances. Fortunately, adaptation is in the SOF DNA. This book examines the changes affecting SOF and offers possible solutions to the complexities that are challenging many long-held assumptions. The chapters explore what has changed, what stays the same, and what it all means for U.S. SOF. The authors are a mix of leading experts in technology, business, policy, intelligence, and geopolitics, partnered with experienced special operators who either cowrote the chapters or reviewed them to ensure accuracy and relevance for SOF. Our goal is to provide insights into the changes around us and generate ideas about how SOF can adapt and succeed in the emerging operational environment.

IBM Software-Defined Storage Guide McGraw Hill Professional

This book provides a collection of comprehensive research articles on data analytics and applications of wearable devices in healthcare. This Special Issue presents 28 research studies from 137 authors representing 37 institutions from 19 countries. To facilitate the understanding of the research articles, we have organized the book to show various aspects covered in this field, such as eHealth, technology-integrated research, prediction models, rehabilitation studies, prototype systems, community health studies, ergonomics design systems, technology acceptance model evaluation studies, telemonitoring systems, warning systems, application of sensors in sports studies, clinical systems, feasibility studies, geographical location based systems, tracking systems, observational studies, risk assessment studies, human activity recognition systems, impact measurement systems, and a systematic review. We would like to take this opportunity to invite high quality research articles for our next Special Issue entitled "Digital Health and Smart Sensors for Better Management of Cancer and Chronic Diseases" as a part of Sensors journal.