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Internet of Things. User-Centric IoT Raffaele Giaffreda 2015-06-25 The two-volume set LNICST 150 and 151 constitutes the thoroughly refereed post-conference proceedings of the First International Internet of Things Summit, IoT360 2014, held in Rome, Italy, in October 2014. This volume contains 74 full papers carefully reviewed and selected from 118 submissions at the following four conferences: the First International Conference on Cognitive Internet of Things Technologies, COIOTE 2014; the First International Conference on Pervasive Games, PERGAMES 2014; the First International Conference on IoT Technologies for HealthCare, HealthyIoT 2014; and the First International Conference on IoT as a Service, IoTaaS 2014. The papers cover the following topics: user-centric IoT; artificial intelligence techniques for the IoT; the design and deployment of pervasive games for various sectors, such as health and wellbeing, ambient assisted living, smart cities and societies, education, cultural heritage, and tourism; delivery of electronic healthcare; patient care and medical data management; smart objects; networking considerations for IoT; platforms for IoTaaS; adapting to the IoT environment; modeling IoTaaS; machine to machine support in IoT.

Lost and Found Barbara J. Webster 2011-01-01 Coping with life after brain injury is not easy. This practical and user friendly workbook and guide for survivors and their families is packed with everyday strategies, tips and accommodations to address the cognitive challenges of daily life. Based on the author's experience as a survivor and as a facilitator of hundreds of support groups, she presents a philosophy and approach for overcoming challenges, envisioning goals, and continuing their healing process. This is the one book that every survivor of a brain injury and the family should have. It is the most comprehensive, sensitive, insightful and thorough workbook available and is filled with hands on practical strategies aimed at helping the person with a brain injury navigate the complexities of daily life. By focusing on the cognitive changes that are so common after a traumatic brain injury, the author approaches each challenge with practical building blocks and strategies for continued rehabilitation at home and in the community. Her philosophy of problem solving and thinking about "how" to do something when a challenge is encountered is a continuous theme through all the chapters. It comes with a CD that has all the tools -- forms, worksheets, checklists -- so the user can print and use them whenever and wherever needed.

Objects, Components, Models and Patterns Richard F. Paige 2008-07-12 This book constitutes the thoroughly refereed proceedings of the 46th International Conference on Objects, Components, Models and Patterns, TOOLS EUROPE 2008, held in Zurich, Switzerland, in June/July 2008. The 21 papers presented in this book were carefully reviewed and selected from 58 submissions. TOOLS played a major role in the spread of object-oriented and component technologies. It has now broadened its scope beyond the original topics of object technology and component-based development to encompass all modern, practical approaches to software development. At the same time, TOOLS kept its traditional spirit of technical excellence, its acclaimed focus on practicality, its well-proven combination of theory and applications, and its reliance on the best experts from academia and industry.

Masterpieces of Swiss Entrepreneurship Jean-Pierre Jeannet 2021-04-21 This open access book focuses on Switzerland-based medium-sized companies with a longstanding export tradition and a proven dominance in global niche markets. Based upon in-depth documentation and analysis of 36 Swiss companies over their entire history, an expert team of authors presents several parallels in the pathways and success factors which allowed these firms to become dominant and operate from a high-cost location such as Switzerland. The book enhances these insights by providing detailed company profiles documenting the company history, development, and how their relevant global niche positions were reached. Readers will benefit from these profiles as they compile a diverse selection of industries, mainly active within the B2B sector, with mostly mature companies (60 years to older than 100 years since founding) and different types of ownership structures including family firms. 'Masterpieces of Swiss Entrepreneurship' brings unique learning opportunities to owners and leaders of SMEs in Switzerland and elsewhere. Findings are based on detailed bottom-up research of 36 companies -- without any preconceived notions. The book is both conceptual and practical. It fosters understanding for different choices in development pathways and management practices. Matti Alahuhta, Chairman DevCo Partners, ex-CEO Kone, Board member of several global listed companies, Helsinki, Finland Start-up entrepreneurs need proven models from industry which demonstrate the various paths to success. "Masterpieces of Swiss Entrepreneurship" provides deep insights highlighting these models and the important trade-offs entrepreneurial teams must consider when choosing the path of high growth or of maximum control, as they are often mutually exclusive. Gina Domanig, Managing Partner, Emerald Technology Ventures, Zurich

Open Rajiv S. Jhangiani 2017-03-27 Affordable education. Transparent science. Accessible scholarship. These ideals are slowly becoming a reality thanks to the open education, open science, and open access movements. Running separate—if parallel—courses, they all share a philosophy of equity, progress, and justice. This book shares the stories, motives, insights, and practical tips from global leaders in the open movement.

The Wiley Handbook of Human Computer Interaction Set Kent Norman 2017-12-28 Once, human-computer interaction was limited to a privileged few. Today, our contact with computing technology is pervasive, ubiquitous, and global. Work and study is computer mediated, domestic and commercial systems are computerized, healthcare is being reinvented, navigation is interactive, and entertainment is computer generated. As technology has grown more powerful, so the field of human-computer interaction has responded with more sophisticated theories and methodologies. Bringing these developments together, The Wiley Handbook of Human-Computer Interaction explores the many and diverse aspects of human-computer interaction while maintaining an overall perspective regarding the value of human experience over technology.

Product Lifecycle Management for Digital Transformation of Industries Ramy Harik 2017-03-15 This book constitutes the refereed proceedings of the 13th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2016, held in Columbia, SC, USA, in July 2016. The 57 revised full papers presented were carefully reviewed and selected from 77 submissions. The papers are organized in the following topical

sections: knowledge sharing, re-use and preservation; collaborative development architectures; interoperability and systems integration; lean product development and the role of PLM; PLM and innovation; PLM tools; cloud computing and PLM tools; traceability and performance; building information modeling; big data analytics and business intelligence; information lifecycle management; industry 4.0; metrics, standards and regulation; and product, service and systems.

International Entrepreneurship Robert D. Hisrich 2015-07-06 Combining comprehensive coverage with a wide variety of real-life cases, International Entrepreneurship: Starting, Developing, and Managing a Global Venture gives entrepreneurs the tools they need to successfully launch international ventures in today's hypercompetitive world. Bestselling author Dr. Robert D. Hisrich helps students and entrepreneurs develop global business plans, select international opportunities, and determine the best entry strategy. The text also covers practical considerations such as legal concerns, the global monetary systems, global marketing, and global human resource management for entrepreneurs. The fully updated Third Edition provides increased attention to culture and reflects recent changes in our increasingly globalized world. Readers will also be exposed to new cases featuring international activities of entrepreneurs and ventures throughout the world.

Artificial Intelligence and Inclusive Education Jeremy Knox 2019-06-13 This book brings together the fields of artificial intelligence (often known as A.I.) and inclusive education in order to speculate on the future of teaching and learning in increasingly diverse social, cultural, emotional, and linguistic educational contexts. This book addresses a pressing need to understand how future educational practices can promote equity and equality, while at the same time adopting A.I. systems that are oriented towards automation, standardisation and efficiency. The contributions in this edited volume appeal to scholars and students with an interest in forming a critical understanding of the development of A.I. for education, as well as an interest in how the processes of inclusive education might be shaped by future technologies. Grounded in theoretical engagement, establishing key challenges for future practice, and outlining the latest research, this book offers a comprehensive overview of the complex issues arising from the convergence of A.I. technologies and the necessity of developing inclusive teaching and learning. To date, there has been little in the way of direct association between research and practice in these domains: A.I. has been a predominantly technical field of research and development, and while intelligent computer systems and 'smart' software are being increasingly applied in many areas of industry, economics, social life, and education itself, a specific engagement with the agenda of inclusion appears lacking. Although such technology offers exciting possibilities for education, including software that is designed to 'personalise' learning or adapt to learner behaviours, these developments are accompanied by growing concerns about the in-built biases involved in machine learning techniques driven by 'big data'.

Challenges in Cybersecurity and Privacy Jorge Bernal Bernabe 2019-06-30 Cybersecurity and Privacy issues are becoming an important barrier for a trusted and dependable global digital society development.In this context, new holistic approaches, methodologies, techniques and tools are needed to cope with those issues, and mitigate cyberattacks

Applied Cyber-Physical Systems Sang C. Suh 2013-08-13 Applied Cyber-Physical Systems presents the latest methods and technologies in the area of cyber-physical systems including medical and biological applications. Cyber-physical systems (CPS) integrate computing and communication capabilities by monitoring, and controlling the physical systems via embedded hardware and computers. This book brings together unique contributions from renowned experts on cyber-physical systems research and education with applications. It also addresses the major challenges in CPS, and then provides a resolution with various diverse applications as examples. Advanced-level students and researchers focused on computer science, engineering and biomedicine will find this to be a useful secondary text book or reference, as will professionals working in this field.

The Clinician's Guide to the Behavior Assessment System for

Children (BASC) Cecil R. Reynolds 2002-06-04 An indispensable guide for professionals using the popular Behavior Assessment System for Children (BASC), this book provides in-depth coverage of all BASC components, their uses, clinical and research applications, and interpretation. Written by BASC originators Cecil R. Reynolds and Randy W. Kamphaus, the book demonstrates the use of the system in clinical work with children with ADHD, behavior problems, depression, and many other conditions. Important research studies are presented and applications discussed for program evaluation, screening and early intervention research, diagnosis, treatment design, and treatment monitoring. The book contains numerous illustrative case studies. Other invaluable features are tables guiding the interpretation of deviant scores for each scale; several new subscales, including a Frontal Lobe/Executive Function scale; detailed coverage of forensic applications; and useful appendices, including a Spanish-language informational handout for parents.

Cloud Computing Dan C. Marinescu 2013-05-30 Cloud Computing: Theory and Practice provides students and IT professionals with an in-depth analysis of the cloud from the ground up. Beginning with a discussion of parallel computing and architectures and distributed systems, the book turns to contemporary cloud infrastructures, how they are being deployed at leading companies such as Amazon, Google and Apple, and how they can be applied in fields such as healthcare, banking and science. The volume also examines how to successfully deploy a cloud application across the enterprise using virtualization, resource management and the right amount of networking support, including content delivery networks and storage area networks. Developers will find a complete introduction to application development provided on a variety of platforms. Learn about recent trends in cloud computing in critical areas such as: resource management, security, energy consumption, ethics, and complex systems Get a detailed hands-on set of practical recipes that help simplify the deployment of a cloud based system for practical use of computing clouds along with an in-depth discussion of several projects Understand the evolution of cloud computing and why the cloud computing paradigm has a better chance to succeed than previous efforts in large-scale distributed computing
Biological & Agricultural Index 1919

Energy and Sun Ludger Eltrop 2013 Solar energy is in focus worldwide. So is the role of cities and public governments for creating a more sustainable urban future. This volume highlights the role of solar energy and other solar related energy technologies for a low carbon and sustainable energy system, particularly for cities and city regions in the South. The articles refer to solar energy generation technologies, smart city planning concepts, as well as ‚passive' solar building design approaches. Thus, the volume takes a broad and applied approach by analysing projects and different solutions for a more efficient and solar oriented building design and technology implementation.
Blockchain Technology and Applications Pethuru Raj 2020-09-16 Blockchain is emerging as a powerful technology, which has attracted the wider attention of all businesses across the globe. In addition to financial businesses, IT companies and business organizations are keenly analyzing and adapting this technology for improving business processes. Security is the primary enterprise application. There are other crucial applications that include creating decentralized applications and smart contracts, which are being touted as the key differentiator of this pioneering technology. The power of any technology lies in its ecosystem. Product and tool vendors are building and releasing a variety of versatile and robust toolsets and platforms in order to speed up and simplify blockchain application development, deployment and management. There are other infrastructure-related advancements in order to streamline blockchain adoption. Cloud computing, big data analytics, machine and deep learning algorithm, and connected and embedded devices all are driving blockchain application development and deployment. Blockchain Technology and Applications illustrates how blockchain is being sustained through a host of platforms, programming languages, and enabling tools. It examines: Data confidential, integrity, and authentication Distributed consensus protocols and algorithms Blockchain systems design criteria and systems interoperability and

scalability Integration with other technologies including cloud and big data It also details how blockchain is being blended with cloud computing, big data analytics and IoT across all industry verticals. The book gives readers insight into how this path-breaking technology can be a value addition in several business domains ranging from healthcare, financial services, government, supply chain and retail.

Advances in Ergonomics in Design Francisco Rebelo 2020-07-01 This book provides readers with a timely snapshot of ergonomics research and methods applied to the design, development and prototyping—as well as the evaluation, training and manufacturing—of products, systems and services. Combining theoretical contributions, case studies and reports on technical interventions, it covers a wide range of topics in ergonomic design including ecological design; cultural and ethical aspects in design; interface design, user involvement and human–computer interaction in design; as well as design for accessibility and many others. The book particularly focuses on new technologies such as virtual reality, state-of-the-art methodologies in information design, and human–computer interfaces. Based on the AHFE 2020 Virtual Conference on Ergonomics in Design, held on July 10–16, 2020, the book offers a timely guide for both researchers and design practitioners, including industrial designers, human–computer interaction and user experience researchers, production engineers and applied psychologists.

Domain-Specific Modeling Steven Kelly 2008-04-11 "[The authors] are pioneers. . . . Few in our industry have their breadth of knowledge and experience." —From the Foreword by Dave Thomas, Bedarra Labs Domain-Specific Modeling (DSM) is the latest approach to software development, promising to greatly increase the speed and ease of software creation. Early adopters of DSM have been enjoying productivity increases of 500–1000% in production for over a decade. This book introduces DSM and offers examples from various fields to illustrate to experienced developers how DSM can improve software development in their teams. Two authorities in the field explain what DSM is, why it works, and how to successfully create and use a DSM

solution to improve productivity and quality. Divided into four parts, the book covers: background and motivation; fundamentals; in-depth examples; and creating DSM solutions. There is an emphasis throughout the book on practical guidelines for implementing DSM, including how to identify the necessary language constructs, how to generate full code from models, and how to provide tool support for a new DSM language. The example cases described in the book are available the book's Website, www.dsmbook.com, along with, an evaluation copy of the MetaEdit+ tool (for Windows, Mac OS X, and Linux), which allows readers to examine and try out the modeling languages and code generators. Domain-Specific Modeling is an essential reference for lead developers, software engineers, architects, methodologists, and technical managers who want to learn how to create a DSM solution and successfully put it into practice.

Microsoft Azure Security Center Yuri Diogenes 2018-06-04 Discover high-value Azure security insights, tips, and operational optimizations This book presents comprehensive Azure Security Center techniques for safeguarding cloud and hybrid environments. Leading Microsoft security and cloud experts Yuri Diogenes and Dr. Thomas Shinder show how to apply Azure Security Center's full spectrum of features and capabilities to address protection, detection, and response in key operational scenarios. You'll learn how to secure any Azure workload, and optimize virtually all facets of modern security, from policies and identity to incident response and risk management. Whatever your role in Azure security, you'll learn how to save hours, days, or even weeks by solving problems in most efficient, reliable ways possible. Two of Microsoft's leading cloud security experts show how to: • Assess the impact of cloud and hybrid environments on security, compliance, operations, data protection, and risk management • Master a new security paradigm for a world without traditional perimeters • Gain visibility and control to secure compute, network, storage, and application workloads • Incorporate Azure Security Center into your security operations center • Integrate Azure Security Center with Azure AD Identity Protection Center and third-party solutions • Adapt Azure Security Center's built-in

policies and definitions for your organization • Perform security assessments and implement Azure Security Center recommendations • Use incident response features to detect, investigate, and address threats • Create high-fidelity fusion alerts to focus attention on your most urgent security issues • Implement application whitelisting and just-in-time VM access • Monitor user behavior and access, and investigate compromised or misused credentials • Customize and perform operating system security baseline assessments • Leverage integrated threat intelligence to identify known bad actors

Developments in Multidimensional Spatial Data Models Alias Abdul Rahman 2013-04-13 This book presents the latest research developments in geoinformation science, which includes all the sub-disciplines of the subject, such as: geomatic engineering, GIS, remote sensing, digital photogrammetry, digital cartography, etc.

Benton Visual Retention Test Abigail Benton Sivan 1992

Big Data Analytics Anirban Mondal 2018-12-11 This book constitutes the refereed proceedings of the 6th International Conference on Big Data analytics, BDA 2018, held in Warangal, India, in December 2018. The 29 papers presented in this volume were carefully reviewed and selected from 93 submissions. The papers are organized in topical sections named: big data analytics: vision and perspectives; financial data analytics and data streams; web and social media data; big data systems and frameworks; predictive analytics in healthcare and agricultural domains; and machine learning and pattern mining.

Earth Observation Data Cubes Gregory Giuliani 2020-03-16 Satellite Earth observation (EO) data have already exceeded the petabyte scale and are increasingly freely and openly available from different data providers. This poses a number of issues in terms of volume (e.g., data volumes have increased 10× in the last 5 years); velocity (e.g., Sentinel-2 is capturing a new image of any given place every 5 days); and variety (e.g., different types of sensors, spatial/spectral resolutions). Traditional approaches to the acquisition, management, distribution, and analysis of EO data have limitations (e.g., data size, heterogeneity, and complexity) that impede their true information potential to be realized. Addressing these big data challenges requires a change of paradigm and a move away from local processing and data distribution methods to lower the barriers caused by data size and related complications in data management. To tackle these issues, EO data cubes (EODC) are a new paradigm revolutionizing the way users can store, organize, manage, and analyze EO data. This Special Issue is consequently aiming to cover the most recent advances in EODC developments and implementations to broaden the use of EO data to larger communities of users, support decision-makers with timely and actionable information converted into meaningful geophysical variables, and ultimately unlock the information power of EO data.

Economic Science Fictions William Davies 2018-05-11 An innovative new anthology exploring how science fiction can motivate new approaches to economics. From the libertarian economics of Ayn Rand to Aldous Huxley's consumerist dystopias, economics and science fiction have often orbited each other. In Economic Science Fictions, editor William Davies has deliberately merged the two worlds, asking how we might harness the power of the utopian imagination to revitalize economic thinking. Rooted in the sense that our current economic reality is no longer credible or viable, this collection treats our economy as a series of fictions and science fiction as a means of anticipating different economic futures. It asks how science fiction can motivate new approaches to economics and provides surprising new syntheses, merging social science with fiction, design with politics, scholarship with experimental forms. With an opening chapter from Ha-Joon Chang as well as theory, short stories, and reflections on design, this book from Goldsmiths Press challenges and changes the notion that economics and science fiction are worlds apart. The result is a wealth of fresh and unusual perspectives for anyone who believes the economy is too important to be left solely to economists. Contributors AUDINT, Khairani Barokka, Carina Brand, Ha-Joon Chang, Miriam Cherry, William Davies, Mark Fisher, Dan Gavshon-Brady and James Pockson, Owen Hatherley, Laura Horn, Tim Jackson, Mark Johnson, Bastien Kerspern, Nora O Murchú, Tobias Revell et al., Judy Thorne, Sherryl Vint, Joseph Walton, Brian Willems

Proceedings of International Conference on Artificial Intelligence, Smart Grid and Smart City Applications L. Ashok Kumar 2020-03-12 Due to the complexity, and heterogeneity of the smart grid and the high volume of information to be processed, artificial intelligence techniques and computational intelligence appear to be some of the enabling technologies for its future development and success. The theme of the book is "Making pathway for the grid of future" with the emphasis on trends in Smart Grid, renewable interconnection issues, planning-operation-control and reliability of grid, real time monitoring and protection, market, distributed generation and power distribution issues, power electronics applications, computer-IT and signal processing applications, power apparatus, power engineering education and industry-institute collaboration. The primary objective of the book is to review the current state of the art of the most relevant artificial intelligence techniques applied to the different issues that arise in the smart grid development.

Evolution's Rainbow Joan Roughgarden 2013-09-14 In this innovative celebration of diversity and affirmation of individuality in animals and humans, Joan Roughgarden challenges accepted wisdom about gender identity and sexual orientation. A distinguished evolutionary biologist, Roughgarden takes on the medical establishment, the Bible, social science—and even Darwin himself. She leads the reader through a fascinating discussion of diversity in gender and sexuality among fish, reptiles, amphibians, birds, and mammals, including primates. Evolution's Rainbow explains how this diversity develops from the action of genes and hormones and how people come to differ from each other in all aspects of body and behavior. Roughgarden reconstructs primary science in light of feminist, gay, and transgender criticism and redefines our understanding of sex, gender, and sexuality. Witty, playful, and daring, this book will revolutionize our understanding of sexuality. Roughgarden argues that principal elements of Darwinian sexual selection theory are false and suggests a new theory that emphasizes social inclusion and control of access to resources and mating opportunity. She disputes a range of scientific and medical concepts,

including Wilson's genetic determinism of behavior, evolutionary psychology, the existence of a gay gene, the role of parenting in determining gender identity, and Dawkins's "selfish gene" as the driver of natural selection. She dares social science to respect the agency and rationality of diverse people; shows that many cultures across the world and throughout history accommodate people we label today as lesbian, gay, and transgendered; and calls on the Christian religion to acknowledge the Bible's many passages endorsing diversity in gender and sexuality. Evolution's Rainbow concludes with bold recommendations for improving education in biology, psychology, and medicine; for democratizing genetic engineering and medical practice; and for building a public monument to affirm diversity as one of our nation's defining principles.

Developmental Test of Visual Perception Donald D. Hammill 1998-01-01
Modern Approaches for Intelligent Information and Database Systems Andrzej Sieminski 2018-02-23 This book offers a unique blend of reports on both theoretical models and their applications in the area of Intelligent Information and Database Systems. The reports cover a broad range of research topics, including advanced learning techniques, knowledge engineering, Natural Language Processing (NLP), decision support systems, Internet of things (IoT), computer vision, and tools and techniques for Intelligent Information Systems. They are extended versions of papers presented at the ACIIDS 2018 conference (10th Asian Conference on Intelligent Information and Database Systems), which was held in Dong Hoi City, Vietnam on 19–21 March 2018. What all researchers and students of computer science need is a state-of-the-art report on the latest trends in their respective areas of interest. Over the years, researchers have proposed increasingly complex theoretical models, which provide the theoretical basis for numerous applications. The applications, in turn, have a profound influence on virtually every aspect of human activities, while also allowing us to validate the underlying theoretical concepts.

Innovative Models for Sustainable Development in Emerging African Countries Rajendra Singh Adhikari 2020-10-08 This open access book

explores key issues and presents recent case studies in areas of importance for the transition to a circular model of development in emerging African countries that will minimize resource consumption and waste production. The topics covered include the development of sustainable housing models, energy and environmental issues in building design and technical systems, recycling for a sustainable future, models for humanitarian emergencies, and low-cost and web-based digital tools with applications in architecture and archaeology. The aim is to contribute to a necessary paradigm shift with respect to urban planning and usage of territories, moving from a linear urban metabolism based on the "take, make, dispose" approach to a circular metabolism. Such a change requires a focus on the relationship between the architectural, urban, and physical aspects of new developments, climate, and energy demand, as well as the identification and integration of strategies and infrastructures to achieve a high level of efficiency and self-sufficiency. The book will appeal to all with an interest in sustainable development in the African context. This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.

Handbook of Energy Efficiency and Renewable Energy D. Yogi Goswami 2007-05-07 Brought to you by the creator of numerous bestselling handbooks, the Handbook of Energy Efficiency and Renewable Energy provides a thorough grounding in the analytic techniques and technological developments that underpin renewable energy use and environmental protection. The handbook emphasizes the engineering aspects of energy conservation and renewable energy. Taking a world view, the editors discuss key topics underpinning energy efficiency and renewable energy systems. They provide content at the forefront of the contemporary debate about energy and environmental futures. This is vital information for planning a secure energy future. Practical in approach, the book covers technologies currently available or expected to be ready for implementation in the near future. It sets the stage with a survey of current and future world-wide energy issues, then explores energy policies and incentives for conservation and renewable energy, covers economic assessment methods for conservation and generation technologies, and discusses the environmental costs of various energy generation technologies. The book goes on to examine distributed generation and demand side management procedures and gives a perspective on the efficiencies, economics, and environmental costs of fossil and nuclear technologies. Highlighting energy conservation as the cornerstone of a successful national energy strategy, the book covers energy management strategies for industry and buildings, HVAC controls, co-generation, and advances in specific technologies such as motors, lighting, appliances, and heat pumps. It explores energy storage and generation from renewable sources and underlines the role of infrastructure security and risk analysis in planning future energy transmission and storage systems. These features and more make the Handbook of Energy Efficiency and Renewable Energy the tool for designing the energy sources of the future.

Cell Viability Assays Daniel F. Gilbert 2017-05-03 This volume provides an overview of commonly used methods and protocols for cell fitness indicators. Chapters detail biochemical, fluorescence and luminescence-based strategies, computational, and label-free methodologies for assaying cellular viability by means of e.g. viscoelastic properties, impedance and multiphoton microscopy. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Cell Viability Assays: Methods and Protocols aims to ensure successful results in the further study of this vital field.

Serious Games Bobbie Fletcher 2021-10-04 This book constitutes the refereed proceedings of the 7th Joint International Conference on Serious Games, JCSG 2021, as virtual event, in January 2022. The 17 full papers presented together with 3 short papers were carefully reviewed and selected from 28 submissions. JSCG 2021 is dedicated to serious games and its interdisciplinary characteristics combining game concepts

and technologies required in the different application domains.

Assessment and Diagnosis of Personality Disorders Armand W. Loranger 1997-04-17 The vital guide to reliable diagnosis and assessment of personality disorders internationally.

The Routledge Handbook of Health Communication Teresa L. Thompson 2011-08-24 The Routledge Handbook of Health Communication brings together the current body of scholarly work in health communication. With its expansive scope, it offers an introduction for those new to this area, summarizes work for those already learned in the area, and suggests avenues for future research on the relationships between communicative processes and health/health care delivery. This second edition of the Handbook has been organized to reflect the goals of health communication: understanding to make informed decisions and to promote formal and informal systems of care linked to health and well-being. It emphasizes work in such areas as barriers to disclosure in family conversations and medical interactions, access to popular media and advertising, and individual searches online for information and support to guide decisions and behaviors with health consequences. This edition also adds an overview of methods used in health communication and the unique challenges facing health communication researchers applying traditional methods to efforts to gain reliable and valid evidence about the role of communication for health. It introduces the promise of translational research being conducted by health communication researchers from multiple disciplines to form transdisciplinary theories and teams to increase the well-being of not only humans but the systems of care within their nations. Arguably the most comprehensive scholarly resource available for study in this area, the Routledge Handbook of Health Communication serves an invaluable role and reference for students, researchers, and scholars doing work in health communication.

Energy Positive Neighborhoods and Smart Energy Districts Antonello Monti 2016-09-21 Energy Positive Neighborhoods and Smart Energy Districts: Methods, Tools, and Experiences from the Field is a comprehensive guide to this highly interdisciplinary topic. Monti et. al's combined experience make them the most qualified team of editors to explore the processes and tools involved in creating Energy Positive Neighborhoods and Smart Energy Districts in an urban setting. Tools include: A complete simulation library to quickly support the implementation of a model of the scenario A set of possible approaches to neighborhood energy optimization An open, extensible information model for neighbourhood asset description The structure of this book offers different reading paths to appeal to the very varied audience it addresses. It describes the process of adaption and the challenges faced by the decision makers, and also how simulation, optimisation, ICT approaches and business models are combined in a holistic and pragmatic way. It also offers possible business models and a means to quantify them to complete the development process. This book is suitable for students on muti-disciplinary energy engineering courses, energy practitioners, ICT vendors aiming to develop new services to target the building industry, and decision makers aiming to structure an urban renovation program. Delivers a significant amount of exclusive knowledge on the topics of energy positive neighborhoods and smart energy districts Allows readers to grasp the complexity of this interdisciplinary topic by providing access to well-structured processes and tools Includes real life examples of the transformation of two demonstration sites that illustrate the concepts discussed to add context and value to their implementation

Advances in Autism Research Antonio Narzisi 2021-06-08 This book represents one of the most up-to-date collections of articles on clinical practice and research in the field of Autism Spectrum Disorders (ASD). The scholars who contributed to this book are experts in their field, carrying out cutting edge research in prestigious institutes worldwide (e.g., Harvard Medical School, University of California, MIND Institute, King's College, Karolinska Institute, and many others). The book addressed many topics, including (1) The COVID-19 pandemic; (2) Epidemiology and prevalence; (3) Screening and early behavioral markers; (4) Diagnostic and phenotypic profile; (5) Treatment and intervention; (6) Etiopathogenesis (biomarkers, biology, and genetic, epigenetic, and risk factors); (7) Comorbidity; (8) Adulthood; and (9)

Broader Autism Phenotype (BAP). This book testifies to the complexity of performing research in the field of ASD. The published contributions underline areas of progress and ongoing challenges in which more certain data is expected in the coming years. It would be desirable that experts, clinicians, researchers, and trainees could have the opportunity to read this updated text describing the challenging heterogeneity of Autism Spectrum Disorder.

Introduction to Microwave Remote Sensing Iain H. Woodhouse 2017-07-12 Introduction to Microwave Remote Sensing offers an extensive overview of this versatile and extremely precise technology for technically oriented undergraduates and graduate students. This textbook emphasizes an important shift in conceptualization and directs it toward students with prior knowledge of optical remote sensing: the author dispels any linkage between microwave and optical remote sensing. Instead, he constructs the concept of microwave remote sensing by comparing it to the process of audio perception, explaining the workings of the ear as a metaphor for microwave instrumentation. This volume takes an "application-driven" approach. Instead of describing the technology and then its uses, this textbook justifies the need for measurement then explains how microwave technology addresses this need. Following a brief summary of the field and a history of the use of microwaves, the book explores the physical properties of microwaves and the polarimetric properties of electromagnetic waves. It examines the interaction of microwaves with matter, analyzes passive atmospheric and passive surface measurements, and describes the operation of altimeters and scatterometers. The textbook concludes by explaining how high resolution images are created using radars, and how techniques of interferometry can be applied to both passive and active sensors.

Digital Transformation Reimund Neugebauer 2019-05-14 With the exception of written letters and personal conversations, digital technology forms the basis of nearly every means of communication and information that we use today. It is also used to control the essential elements of economic, scientific, and public and private life: security, production, mobility, media, and healthcare. Without exaggerating it is possible to say that digital technology has become one of the foundations of our technologically oriented civilization. The benefits of modern data technology are so impressive and the potential for future applications so enormous that we cannot fail to promote its development if we are to retain our leading role in the competitive international marketplace. In this process, security plays a vital role in each of the areas of application of digital technology — the more technological sectors are entrusted to data systems technology, the more important their reliability becomes to us. Developing digital systems further while simultaneously ensuring that they always act and respond in the best interests of people is a central goal of the technological research and development propagated and conducted by Fraunhofer.

Energy Efficiency in Buildings José Manuel Andújar 2020-04-28 Buildings are one of the main causes of the emission of greenhouse gases in the world. Europe alone is responsible for more than 30% of emissions, or about 900 million tons of CO_2 per year. Heating and air conditioning are the main cause of greenhouse gas emissions in buildings. Most buildings currently in use were built with poor energy efficiency criteria or, depending on the country and the date of construction, none at all. Therefore, regardless of whether construction regulations are becoming stricter, the real challenge nowadays is the energy rehabilitation of existing buildings. It is currently a priority to reduce (or, ideally, eliminate) the waste of energy in buildings and, at the same time, supply the necessary energy through renewable sources. The first can be achieved by improving the architectural design, construction methods, and materials used, as well as the efficiency of the facilities and systems; the second can be achieved through the integration of renewable energy (wind, solar, geothermal, etc.) in buildings. In any case, regardless of whether the energy used is renewable or not, the efficiency must always be taken into account. The most profitable and clean energy is that which is not consumed.

Chemical Dependency Counseling Robert R. Perkinson 2016-08-11 The best-selling Chemical Dependency Counseling: A Practical Guide

provides counselors and front-line mental health professionals with the information and skills they need to use evidence-based treatments, including motivational enhancement, cognitive behavioral therapy, skills training, medication, and 12-step facilitation. Guiding the counselor step by step through treatment, author Robert R. Perkinson presents state-of-the-art tools, forms, and tests necessary for client success while meeting the highest standards demanded by accrediting bodies. The Fifth Edition of this landmark text has been updated to include coverage of current topics of concern for counselors, including full compliance with DSM-5, new coverage of steps 6 – 12 in 12-step facilitation, discussions on synthetic and designer drugs, new psychotherapeutic medications, new survey data on patterns of use and abuse, a list of online recovery support groups for clients, and a new section on Recommendations for a Successful First Year in Recovery.