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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

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.

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.

New World War: Revolutionary Methods for Political Control Mark M. Rich 2013-05-09 A silent war is taking place in cities all over the planet. It is covered-up by the media, mental health system, NGOs, and our elected officials. Now that the financial elite are finished using the US military and allied forces to conquer nations in their quest for global domination, they're neutralizing individuals and groups of resisters who live among the people. To do this, they have recruited a major portion of the civilian population, which is used as a surrogate force to persecute those who have been identified as enemies. As part of the same agenda, the security forces are conducting psychological operations on civilians and torturing them with directed-energy weapons. The entire operation is in service to some very wealthy psychopaths who rule our society, as part of a global revolution intended to result in a planetary dictatorship, known as the New World Order.

Counseling Addicted Families Gerald A. Juhnke 2013-08-16 In Counseling Addicted Families, Gerald A. Juhnke and William Bryce Hagedorn recognize that even those treatment providers who understand the importance of the familial context of addiction are often stymied by the variety of family treatment theories and their often imperfect fit for cases of addiction. In this book, Juhnke and Hagedorn provide a truly integrated model for assessment and treatment. Based upon the authors' combined twenty-three years of experience in clinical and treatment supervision, the Integrated Family Addictions Model consists of six progressive treatment tiers which organize the relevant family treatment theories into a graduated and coherent sequence, beginning with the briefest and least costly forms of therapy.

Biological & Agricultural Index 1919

A Provider's Introduction to Substance Abuse Treatment for Lesbian, Gay, Bisexual, and Transgender Individuals 2001

Addiction Counseling Competencies United States. Department of Health and Human Services 2011

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

Domain-Specific Conceptual Modeling Dimitris Karagiannis 2016-07-09 This book draws new attention to domain-specific conceptual modeling by presenting the work of thought leaders who have designed and deployed specific modeling methods. It provides hands-on guidance on how to build models in a particular domain, such as requirements engineering, business process modeling or enterprise architecture. In addition to these results, it also puts forward ideas for future developments. All this is enriched with exercises, case studies, detailed references and further related information. All domain-specific methods described in this volume also have a tool implementation within the OMiLAB Collaborative Environment – a dedicated research and experimentation space for modeling method engineering at the University of Vienna, Austria – making these advances accessible to a wider community of further developers and users. The collection of works presented here will benefit experts and practitioners from academia and industry alike, including members of the conceptual modeling community as well as lecturers and students.

Addiction Counseling Competencies 2006

Aaron Marks' Complete Guide to Game Audio Aaron Marks 2017-03-16 Whether trying to land that first big gig or working to perfect the necessary skills to fill a game world with sound, Aaron Marks' Complete Guide to Game Audio 3rd edition will teach the reader everything they need to know about the audio side of the multi-million dollar video game industry. This book builds upon the success of the second edition with even more expert advice from masters in the field and notes current changes within the growing video game industry. The tools of the trade excerpts will showcase what professionals, like Marty O'Donnell, Richard Jacques and Tom Salta, use to create their work and to help newcomers in the field prepare their own sound studios. Sample contracts are reviewed within the text as well as helpful advice about contractual terms and negotiable points. These sample contracts can also be found as a downloadable zip for the reader's convenience. Aaron Marks also explores how to set your financial terms and network efficiently along with examples of how projects can go completely awry and achieving the best results in often complicated situations. Aaron Marks' Complete Guide to Game Audio serves as the ultimate survival guide to navigating an audio career in the video game industry. Key Features New, full color edition with a complete update of information. Added and expanded coverage of field recording for games, creating voiceovers, adaptive and interactive audio and other cutting edge sound creation and implementation techniques used within games. Update/Replacement of interviews. Include interviews/features on international game audio professionals New and expanded interview features from game composers and sound designers of every experience level such as Keith Arem, Bradley Meyer, Christopher Tin and Rodney Gates including many international professionals like Pasi Pitkanen, Henning Nugel and Christos Panayides. Expanded and updated game console coverage of the Wii, Wii U, Xbox 360, Xbox One, PS3 and PS4. Includes new scripting and middleware concepts and techniques and review of powerful tools such as FMOD and Wwise.

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.

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. About the Author Robert R. Perkinson is the clinical director of Keystone Treatment Center in Canton, South Dakota. He is a licensed psychologist; licensed marriage & family therapist; internationally certified alcohol and drug counselor; and a nationally certified gambling counselor and supervisor. In addition to the best-selling Chemical Dependency Counseling: A Practical Guide, Fifth Edition, Dr. Perkinson is the author of The Alcoholism and Drug Abuse Client Workbook, Third Edition and The Gambling Addiction Client Workbook, Third Edition.

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.

Wadi Flash Floods Tetsuya Sumi 2021-10-11 This open access book brings together research studies, developments, and application-related flash flood topics on wadi systems in arid regions. The major merit of this comprehensive book is its focus on research and technical papers as well as case study applications in different regions worldwide that cover many topics and answer several scientific questions. The book chapters comprehensively and significantly highlight different scientific research disciplines related to wadi flash floods, including climatology, hydrological models, new monitoring techniques, remote sensing techniques, field investigations, international collaboration projects, risk assessment and mitigation, sedimentation and sediment transport, and groundwater quality and quantity assessment and management. In this book, the contributing authors (engineers, researchers, and professionals) introduce their recent scientific findings to develop suitable, applicable, and innovative tools for forecasting, mitigation, and water management as well as society development under seven main research themes as follows: Part 1. Wadi Flash Flood Challenges and Strategies Part 2. Hydrometeorology and Climate Changes Part 3. Rainfall-Runoff Modeling and Approaches Part 4. Disaster Risk Reduction and Mitigation Part 5. Reservoir Sedimentation and Sediment Yield Part 6. Groundwater Management Part 7. Application and Case Studies The book includes selected high-quality papers from five series of the International Symposium on Flash Floods in Wadi Systems (ISFF) that were held in 2015, 2016, 2017, 2018, and 2020 in Japan, Egypt, Oman, Morocco, and Japan, respectively. These collections of chapters could provide valuable guidance and scientific content not only for academics, researchers, and students but also for decision-makers in the MENA region and worldwide.

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.

Test of Language Development Donald D. Hammill 2020

Designing Audio Effect Plugins in C++ Will C. Pirkle 2019-05-02 Designing Audio Effect Plugins in C++ presents everything you need to know about digital signal processing in an accessible way. Not just another theory-heavy digital signal processing book, nor another dull build-a-generic-database programming book, this book includes fully worked, downloadable code for dozens of professional audio effect plugins and practically presented algorithms. Sections include the basics of audio signal processing, the anatomy of a plugin, AAX, AU and VST3 programming guides; implementation details; and actual projects and code. More than 50 fully coded C++ audio signal-processing objects are included. Start with an intuitive and practical introduction to the digital signal processing (DSP) theory behind audio plug-ins, and quickly move on to plugin implementation, gain knowledge of algorithms on classical, virtual analog, and wave digital filters, delay, reverb, modulated effects, dynamics processing, pitch shifting, nonlinear processing, sample rate conversion and more. You will then be ready to design and implement your own unique plugins on any platform and within almost any host program. This new edition is fully updated and improved and presents a plugin core that allows readers to move freely between application programming interfaces and platforms. Readers are expected to have some knowledge of C++ and high school math.

Annual Review of Cybertherapy and Telemedicine 2010 B. K. Wiederhold 2010 Advanced Technologies in Behavioral Social a. Healthcare systems around the world are moving towards a quantum shift in care delivery. As costs spiral ever higher, cybertherapy the provision of healthcare services using advanced technologies is poised to increase the efficiency and quality of hea

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.

Information Technology for Management Efraim Turban 2013-01-14 This text is an unbound, binder-ready edition. Information Technology for Management by Turban, Volonino Over the years, this leading IT textbook had distinguished itself with an emphasis on illustrating the use of cutting edge business technologies for achieving managerial goals and objectives. The 9th ed continues this tradition with coverage of emerging trends in Mobile Computing and Commerce, IT virtualization, Social Media, Cloud Computing and the Management and Analysis of Big Data along with advances in more established areas of Information Technology. The book prepares students for professional careers in a rapidly changing and competitive environment by demonstrating the connection between IT concepts and practice more clearly than any other textbook on the market today. Each chapter contains numerous case studies and real world examples illustrating how businesses increase productivity, improve efficiency, enhance communication and collaboration, and gain competitive advantages through the use of Information Technologies.

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

The Successful Internship Frederick Sweitzer 2013-04-12 THE SUCCESSFUL INTERNSHIP: PERSONAL, PROFESSIONAL, AND CIVIC DEVELOPMENT, 4th Edition, offers you more than just a resource for how to find a position or how to interview. It addresses the concerns, emotions, needs, and unique personal challenges that are the essence of an internship or field experience, and focuses on the internship as a vehicle for your development as a civic professional. The authors describe in detail the path of change you'll find yourself embarking on and the challenges you'll face along the way. A four-stage model of the internship process--anticipation, exploration, competence, and culmination--places the material in a meaningful framework that lends structure to your understanding of the work you'll be doing. Available with InfoTrac Student Collections http://gocengage.com/infotrac. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Tool Steel Simplified Donald D. Hammill 1998-01-01

Networks on Chip Axel Jantsch 2007-05-08 As the number of processor cores and IP blocks integrated on a single chip is steadily growing, a systematic approach to design the communication infrastructure becomes necessary. Different variants of packed switched on-chip networks have been proposed by several groups during the past two years. This book summarizes the state of the art of these efforts and discusses the major issues from the physical integration to architecture to operating systems and application interfaces. It also provides a guideline and vision about the direction this field is moving to. Moreover, the book outlines the consequences of adopting design platforms based on packet switched network. The consequences may in fact be far reaching because many of the topics of distributed systems, distributed real-time systems, fault tolerance, embedded systems, reliable computer architecture, parallel programming as well as traditional system-on-chip issues will appear relevant but within the constraints of a single chip VLSI implementation.

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 on which to base their research. This book demonstrates 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

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.

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.

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.

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.

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.

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'.

Energy Efficiency in Buildings Josè 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 CO2 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.

Spiritual Emergency Stanislav Grof 1989-09 Argues that many episodes of transformational crisis have been misdiagnosed as mental illness, and explains how to use such a crisis for spiritual development

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.

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

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.

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

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