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KEY=YSIS - BURNETT JAZLYN

Health Promotion in Health Care – Vital Theories and Research

Springer This **Open Access** textbook represents a vital contribution to global health education, offering insights into health promotion as part of patient care for bachelor's and master's students in health care (nurses, occupational therapists, physiotherapists, radiotherapists, social care workers etc.) as well as health care professionals, and providing an overview of the field of health science and health promotion for PhD students and researchers. Written by leading experts from seven countries in Europe, America, Africa and Asia, it first discusses the theory of health promotion and vital concepts. It then presents updated evidence-based health promotion approaches in different populations (people with chronic diseases, cancer, heart failure, dementia, mental disorders, long-term ICU patients, elderly individuals, families with newborn babies, palliative care patients) and examines different health promotion approaches integrated into primary care services. This edited scientific anthology provides much-needed knowledge, translating research into guidelines for practice. Today's medical approaches are highly developed; however, patients are human beings with a wholeness of body-mind-spirit. As such, providing high-quality and effective health care requires a holistic physical-psychological-social-spiritual model of health care is required. A great number of patients, both in hospitals and in primary health care, suffer from the lack of a holistic oriented health approach: Their condition is treated, but they feel scared, helpless and lonely. Health promotion focuses on improving people's health in spite of illnesses. Accordingly, health care that supports/promotes patients' health by identifying their health resources will result in better patient outcomes: shorter hospital stays, less re-hospitalization, being better able to cope at home and improved well-being, which in turn lead to lower health-care costs. This scientific anthology is the first of its kind, in that it connects health promotion with the salutogenic theory of health throughout the chapters. The authors here expand the understanding of health promotion beyond health protection and disease prevention. The book focuses on describing and explaining salutogenesis as an umbrella concept, not only as the key concept of sense of coherence.

MARE-WINT

New Materials and Reliability in Offshore Wind Turbine Technology

Springer This book provides a holistic, interdisciplinary overview of offshore wind energy, and is a must-read for advanced researchers. Topics, from the design and analysis of future turbines, to the decommissioning of wind farms, are covered. The scope of the work ranges from analytical, numerical and experimental advancements in structural and fluid mechanics, to novel developments in risk, safety & reliability engineering for offshore wind. The core objective of the current work is to make offshore wind energy more competitive, by improving the reliability, and operations and maintenance (O&M) strategies of wind turbines. The research was carried out under the auspices of the EU-funded project, MARE-WINT. The project provided a unique opportunity for a group of researchers to work closely together, undergo multidisciplinary doctoral training, and conduct research in the area of offshore wind energy generation. Contributions from expert, external authors are also included, and the complete work seeks to bridge the gap between research and a rapidly-evolving industry.

Families and Food in Hard Times

European comparative research

UCL Press Food is fundamental to health and social participation, yet food poverty has increased in the global North. Adopting a realist ontology and taking a comparative case approach, *Families and Food in Hard Times* addresses the global problem of economic retrenchment and how those most affected are those with the least resources. Based on research carried out with low-income families with children aged 11-15, this timely book examines food poverty in the

UK, Portugal and Norway in the decade following the 2008 financial crisis. It examines the resources to which families have access in relation to public policies, local institutions and kinship and friendship networks, and how they intersect. Through 'thick description' of families' everyday lives, it explores the ways in which low income impacts upon practices of household food provisioning, the types of formal and informal support on which families draw to get by, the provision and role of school meals in children's lives, and the constraints upon families' social participation involving food. Providing extensive and intensive knowledge concerning the conditions and experiences of low-income parents as they endeavour to feed their families, as well as children's perspectives of food and eating in the context of low income, the book also draws on the European social science literature on food and families to shed light on the causes and consequences of food poverty in austerity Europe.

Emerging Technologies for Education

Second International Symposium, SETE 2017, Held in Conjunction with ICWL 2017, Cape Town, South Africa, September 20–22, 2017, Revised Selected Papers

Springer This book constitutes the thoroughly refereed post-workshop proceedings of the Second International Symposium, SETE 2017, held in conjunction with ICWL 2017, Cape Town, South Africa, in September 2017. The 52 full and 13 short papers were carefully reviewed and selected from 123 submissions. This symposium attempts to provide opportunities for the crossfertilization of knowledge and ideas from researchers in diverse fields that make up this interdisciplinary research area.

Assessment and Learning

SAGE This book provides a comprehensive overview of assessment that is used to support learning, practice-based theory on assessment for learning, and formative assessment to support individual development and motivate learners. Readers will find research-informed insights from a wide variety of international contexts. The new edition includes chapters on e-assessment, the learner's perspective on assessment and learning, and the influence of assessment on how we value learning.

Multivariate Statistical Modelling Based on Generalized Linear Models

Springer Science & Business Media Concerned with the use of generalised linear models for univariate and multivariate regression analysis, this is a detailed introductory survey of the subject, based on the analysis of real data drawn from a variety of subjects such as the biological sciences, economics, and the social sciences. Where possible, technical details and proofs are deferred to an appendix in order to provide an accessible account for non-experts. Topics covered include: models for multi-categorical responses, model checking, time series and longitudinal data, random effects models, and state-space models. Throughout, the authors have taken great pains to discuss the underlying theoretical ideas in ways that relate well to the data at hand. As a result, numerous researchers whose work relies on the use of these models will find this an invaluable account.

Enhancing Future Skills and Entrepreneurship

3rd Indo-German Conference on Sustainability in Engineering

Springer Nature This open access book presents the proceedings of the 3rd Indo-German Conference on Sustainability in Engineering held at Birla Institute of Technology and Science, Pilani, India, on September 16-17, 2019. Intended to foster the synergies between research and education, the conference is one of the joint activities of the BITS Pilani and TU Braunschweig conducted under the auspices of Indo-German Center for Sustainable Manufacturing, established in 2009. The book is divided into three sections: engineering, education and entrepreneurship, covering a range of topics, such as renewable energy forecasting, design & simulation, Industry 4.0, and soft & intelligent sensors for energy efficiency. It also includes case studies on lean and green manufacturing, and life cycle analysis of ceramic products, as well as papers on teaching/learning methods based on the use of learning factories to improve students' problem-solving and personal skills. Moreover, the book discusses high-tech ideas to help the large number of unemployed engineering graduates looking for jobs become tech entrepreneurs. Given its broad scope, it will appeal to academics and industry professionals alike.

Dealing with Grounded Theory. Discussing, Learning and Practice

Social Innovation in Higher Education

Landscape, Practices, and Opportunities

Springer Nature This open access book offers unique and novel views on the social innovation landscape, tools, practices, pedagogies, and research in the context of higher education. International, multi-disciplinary academics and industry leaders present new developments, research evidence, and practice expertise on social innovation in higher education institutions (HEIs), across academic and professional disciplines. The book includes a selected set of peer-reviewed chapters presenting different perspectives against which relevant actors can identify and analyse social innovation in HEIs. The volume demonstrates how HEIs can respond to societal challenges, support positive social change, and contribute to the development of international public policy discourse. It answers the question 'how does the present higher education system, in different countries, promote social innovation and create social change and impact'. In answering this question, the book identifies factors driving success as well as obstacles. Furthermore, it examines how higher education innovation assists societal challenges and investigates the benefits of effective social innovation engagement by HEIs. The interdisciplinary approach of the volume makes it a must-read for scholars, students, policy-makers, and practitioners of economics, education, business and management, political science, and sociology interested in a better understanding of social innovation.

Exploring and Optimizing Agricultural Landscapes

Springer Nature The book informs about agricultural landscapes, their features, functions and regulatory mechanisms. It characterizes agricultural production systems, trends of their development, and their impacts on the landscape. Agricultural landscapes are multifunctional systems, coupled with all nexus problems of the 21st century. This has led to serious discrepancies between agriculture and environment, and between urban and rural population. The mission, key topics and methods of research in order to understanding, monitoring and controlling processes in rural landscapes is being explained. Studies of international expert teams, many of them from Russia, demonstrate approaches towards both improving agricultural productivity and sustainability, and enhancing ecosystem services of agricultural landscapes. Scientists of different disciplines, decision makers, farmers and further informed people dealing with the evolvement of thriving rural landscapes are the primary audience of this book.

Users Guide to Physical Modelling and Experimentation

Experience of the HYDRALAB Network

CRC Press A Users Guide to Hydraulic Modelling and Experimentation provides a systematic, comprehensive summary of the progress made through HYDRALAB III. The book combines the expertise of many of the leading hydraulic experimentalists in Europe and identifies current best practice for carrying out state-of-the-art, modern laboratory investigations. In addition it gives an inventory and reviews recent advances in instrumentation and equipment that drive present and new developments in the subject. The Guide concentrates on four core areas - waves, breakwaters, sediments and the relatively-new (but rapidly-developing) cross-disciplinary area of hydrodynamics/ecology. Progress made through the 'CoMIBBS' component of HYDRALAB III provides the material for a chapter focussed on guidance, principles and practice for composite modelling. There is detailed consideration of scaling and the degree of relevance of laboratory/physical modelling approaches for specific contexts included in each of the individual chapters. The Guide includes outputs from the workshops and several of the innovative transnational access projects that have been supported within HYDRALAB III, as well as the focussed joint research activities SANDS and CoMIBBS. Its primary purpose is to serve as a shared resource to disseminate the outstanding advances achieved within HYDRALAB III but, even more than this, it is a tribute to the human and institutional collaborations that led to and sustained the research advances, the human relationships that were strengthened and initiated through joint participation in the Programme, and the training opportunities that participation provided to the many young researchers engaged in the projects.

Expectations Unfulfilled: Norwegian Migrants in Latin America, 1820-1940

BRILL In Expectations Unfulfilled scholars from Argentina, Belgium, Brazil, Mexico, Norway, Spain and Sweden study the experiences of Norwegian migrants in Latin America between the Wars of Independence and World War II.

Philosophy of Social Science

A New Introduction

Oxford University Press, USA This is a much-needed new introduction to a field that has been transformed in recent years by exciting new subjects, ideas, and methods. It is designed both for students with central interests in philosophy and those planning to concentrate on the social sciences, and it presupposes no particular background in either domain. From the wide range of topics at the forefront of debate in philosophy of social science, the editors have chosen those which are representative of the most important and interesting contemporary work. A team of distinguished experts explore key aspects of the field such as social ontology (what are the things that social science studies?), objectivity, formal methods, measurement, and causal inference. Also included are chapters focused on notable subjects of social science research, such as well-being and climate change. *Philosophy of Social Science* provides a clear, accessible, and up-to-date guide to this fascinating field.

Proceedings of International Conference on Advances in Computing

Springer Science & Business Media This is the first International Conference on Advances in Computing (ICAdC-2012). The scope of the conference includes all the areas of New Theoretical Computer Science, Systems and Software, and Intelligent systems. Conference Proceedings is a culmination of research results, papers and the theory related to all the three major areas of computing mentioned above. Helps budding researchers, graduates in the areas of Computer Science, Information Science, Electronics, Telecommunication, Instrumentation, Networking to take forward their research work based on the reviewed results in the paper by mutual interaction through e-mail contacts in the proceedings.

Taking Stock of Industrial Ecology

Springer How can we design more sustainable industrial and urban systems that reduce environmental impacts while supporting a high quality of life for everyone? What progress has been made towards reducing resource use and waste, and what are the prospects for more resilient, material-efficient economies? What are the environmental and social impacts of global supply chains and how can they be measured and improved? Such questions are at the heart of the emerging discipline of industrial ecology, covered in *Taking Stock of Industrial Ecology*. Leading authors, researchers and practitioners review how far industrial ecology has developed and current issues and concerns, with illustrations of what the industrial ecology paradigm has achieved in public policy, corporate strategy and industrial practice. It provides an introduction for students coming to industrial ecology and for professionals who wish to understand what industrial ecology can offer, a reference for researchers and practitioners and a source of case studies for teachers.

Microplastic in the Environment: Pattern and Process

Springer Nature This open access book examines global plastic pollution, an issue that has become a critical societal challenge with implications for environmental and public health. This volume provides a comprehensive, holistic analysis on the plastic cycle and its subsequent effects on biota, food security, and human exposure. Importantly, global environmental change and its associated, systems-level processes, including atmospheric deposition, ecosystem complexity, UV exposure, wind patterns, water stratification, ocean circulation, etc., are all important direct and indirect factors governing the fate, transport and biotic and abiotic processing of plastic particles across ecosystem types. Furthermore, the distribution of plastic in the ocean is not independent of terrestrial ecosystem dynamics, since much of the plastic in marine ecosystems originates from land and should therefore be evaluated in the context of the larger plastic cycle. Changes in species size, distribution, habitat, and food web complexity, due to global environmental change, will likely alter trophic transfer dynamics and the ecological effects of nano- and microplastics. The fate and transport dynamics of plastic particles are influenced by their size, form, shape, polymer type, additives, and overall ecosystem conditions. In addition to the risks that plastics pose to the total environment, the potential impacts on human health and exposure routes, including seafood consumption, and air and drinking water need to be assessed in a comprehensive and quantitative manner. Here I present a holistic and interdisciplinary book volume designed to advance the understanding of plastic cycling in the environment with an emphasis on sources, fate and transport, ecotoxicology, climate change effects, food security, microbiology, sustainability, human exposure and public policy.

The Shaping of Ambient Intelligence and the Internet of

Things

Historico-epistemic, Socio-cultural, Politico-institutional and Eco-environmental Dimensions

Springer Recent advances in ICT have given rise to new socially disruptive technologies: Aml and the IoT, marking a major technological change which may lead to a drastic transformation of the technological ecosystem in all its complexity, as well as to a major alteration in technology use and thus daily living. Yet no work has systematically explored Aml and the IoT as advances in science and technology (S&T) and sociotechnical visions in light of their nature, underpinning, and practices along with their implications for individual and social wellbeing and for environmental health. Aml and the IoT raise new sets of questions: In what way can we conceptualize such technologies? How can we evaluate their benefits and risks? How should science-based technology and society's politics relate? Are science-based technology and society converging in new ways? It is with such questions that this book is concerned. Positioned within the research field of Science and Technology Studies (STS), which encourages analyses whose approaches are drawn from a variety of disciplinary perspectives, this book amalgamates an investigation of Aml and the IoT technologies based on a unique approach to cross-disciplinary integration; their ethical, social, cultural, political, and environmental effects; and a philosophical analysis and evaluation of the implications of such effects. An interdisciplinary approach is indeed necessary to understand the complex issue of scientific and technological innovations that S&T are not the only driving forces of the modern, high-tech society, as well as to respond holistically, knowledgeably, reflectively, and critically to the most pressing issues and significant challenges of the modern world. This book is the first systematic study on how Aml and the IoT applications of scientific discovery link up with other developments in the spheres of the European society, including culture, politics, policy, ethics and ecological philosophy. It situates Aml and the IoT developments and innovations as modernist science-based technology enterprises in a volatile and tense relationship with an inherently contingent, heterogeneous, fractured, conflictual, plural, and reflexive postmodern social world. The issue's topicality results in a book of interest to a wide readership in science, industry, politics, and policymaking, as well as of recommendation to anyone interested in learning the sociology, philosophy, and history of Aml and the IoT technologies, or to those who would like to better understand some of the ethical, environmental, social, cultural, and political dilemmas to what has been labeled the technologies of the 21st century.

Infrasound Monitoring for Atmospheric Studies

Springer Science & Business Media The use of infrasound to monitor the atmosphere has, like infrasound itself, gone largely unheard of through the years. But it has many applications, and it is about time that a book is being devoted to this fascinating subject. Our own involvement with infrasound occurred as graduate students of Prof. William Donn, who had established an infrasound array at the Lamont-Doherty Geological Observatory (now the Lamont-Doherty Earth Observatory) of Columbia University. It was a natural outgrowth of another major activity at Lamont, using seismic waves to explore the Earth's interior. Both the atmosphere and the solid Earth feature velocity (seismic or acoustic) gradients in the vertical which act to refract the respective waves. The refraction in turn allows one to calculate the respective background structure in these mediums, indirectly exploring locations that are hard to observe otherwise. Monitoring these signals also allows one to discover various phenomena, both natural and man-made (some of which have military applications).

Entrepreneurship and Small Business Management in the Hospitality Industry

Routledge Small businesses are the backbone of the tourism and hospitality industry and, depending on which statistics one uses, represent somewhere between 75 to 95 percent of all firms globally in this sector. The number of entrepreneurs has dramatically and uniformly increased globally over the last ten years. Divided into four sections, *Entrepreneurship and Small Business Management in the Hospitality Industry* takes an intuitive step-by-step progression through each stage of the entrepreneurial process: context, theoretical perspectives and definitions; Concept to reality; The business plan; Growth and the future. Ideal for students at any level, the chapters of this book invite you to ponder upon your reading through a series of 'reflective practice' activities. These, along with case studies, clearly defined chapter objectives, reflections, role-play activities and experiential exercises, allow you to both think actively about themes, concepts and issues and then apply them to a number of suggested scenarios. Perfect preparation for the up-and-coming entrepreneur!

Human-Centered Software Engineering

7th IFIP WG 13.2 International Working Conference, HCSE 2018, Sophia Antipolis, France, September 3–5, 2018, Revised Selected Papers

Springer This book constitutes the refereed post-conference proceedings of the 7th IFIP WG 13.2 International Conference on Human-Centered Software Engineering, HCSE 2018, held in Sophia Antipolis, France, in September 2018. The 11 full papers and 7 short papers presented together with 5 poster and demo papers were carefully reviewed and selected from 36 submissions. The papers focus on the interdependencies between user interface properties and contribute to the development of theories, methods, tools and approaches for dealing with multiple properties that should be taken into account when developing interactive systems. They are organized in the following topical sections: HCI education and training; model-based and model-driven approaches; task modeling and task-based approaches; tools and tool support; and usability evaluation and UI testing.

Metacognition in Language Learning and Teaching (Open Access)

Routledge The Open Access version of this book, available at <https://www.taylorfrancis.com/books/e/9781351049139>, has been made available under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license. This volume offers an exhaustive look at the latest research on metacognition in language learning and teaching. While other works have explored certain notions of metacognition in language learning and teaching, this book, divided into theoretical and empirical chapters, looks at metacognition from a variety of perspectives, including metalinguistic and multilingual awareness, and language learning and teaching in L2 and L3 settings, and explores a range of studies from around the world. This allows the volume to highlight a diverse set of methodological approaches, including blogging, screen recording software, automatic translation programs, language corpora, classroom interventions, and interviews, and subsequently, to demonstrate the value of metacognition research and how insights from such findings can contribute to a greater understanding of language learning and language teaching processes more generally. This innovative collection is an essential resource for students and scholars in language teaching pedagogy, and applied linguistics.

Genomic Uracil

Evolution, Biology, Immunology and Disease

World Scientific This book describes genomic uracil in evolution, as a DNA constituent in adaptive and innate immune responses and as a mutagenic lesion causing cancer. Genomic uracil is as old as life and may have been a component in self-replicating molecules in the prebiotic era. The first living cells probably contained uracil in DNA, later to be replaced by thymine. The pioneering work of Nobel Laureate, Tomas Lindahl on spontaneous deamination of DNA cytosine to uracil was followed by his discovery of uracil-DNA glycosylase, which initiates repair of genomic uracil in base excision repair (BER). Uracil-DNA glycosylases are found in all forms of life and in DNA viruses, having roles in DNA repair, replication and epigenetics. The surprising discovery of enzymatic DNA cytosine deamination by the AID/APOBEC deaminases subsequently has implicated genomic uracil in the development of human cancer. The aim of the book is to contribute a reference text for graduate students, molecular biologists, immunologists and cancer biologists. Genomic uracil has become a hot research topic of wide interest after the Nobel Prize in Chemistry 2015 was awarded for DNA repair (Paul Modrich, Aziz Sanchar and Tomas Lindahl). Furthermore, genomic uracil has received wide interest among both immunologists and cancer biologists due to its unexpected and fundamental role in adaptive immunity. Genomic uracil, thus, is highly relevant to researchers in different areas of research, but to our knowledge there is no published text that treats genomic uracil in an interdisciplinary way. The authors of this book have in the last three decades worked on genomic uracil and its processing and are among the most highly cited authors in the field.

The Network Reshapes the Library

Lorcan Dempsey on Libraries, Services and Networks

American Library Association Since he began posting in 2003, Dempsey has used his blog to explore nearly every important facet of library technology, from the emergence of Web 2.0 as a concept to open source ILS tools and the push to web-scale library management systems.

System Reliability Theory Models and Statistical Methods

John Wiley & Sons A comprehensive introduction to reliability analysis. The first section provides a thorough but elementary prologue to reliability theory. The latter half comprises more advanced analytical tools including Markov processes, renewal theory, life data analysis, accelerated life testing and Bayesian reliability analysis. Features numerous worked examples. Each chapter concludes with a selection of problems plus additional material on applications.

Eighteenth International Seaweed Symposium

Proceedings of the Eighteenth International Seaweed Symposium held in Bergen, Norway, 20 - 25 June 2004

Springer Science & Business Media This book contains the proceedings of the 18th International Seaweed Symposium, which provides an invaluable reference to a wide range of fields in applied phycology. The papers featured in this volume cover topics as diverse as systematics, ecology, commercial applications, carbohydrate chemistry and applications, harvesting biology, cultivation and more. It offers a benchmark of progress in all fields of applied seaweed science and management.

Advances in Safety, Reliability and Risk Management

ESREL 2011

CRC Press Advances in Safety, Reliability and Risk Management contains the papers presented at the 20th European Safety and Reliability (ESREL 2011) annual conference in Troyes, France, in September 2011. The book covers a wide range of topics, including: Accident and Incident Investigation; Bayesian methods; Crisis and Emergency Management; Decision Making

Negotiating Gender Expertise in Environment and Development

Voices from Feminist Political Ecology

Routledge This book casts a light on the daily struggles and achievements of 'gender experts' working in environment and development organisations, where they are charged with advancing gender equality and social equity and aligning this with visions of sustainable development. Developed through a series of conversations convened by the book's editors with leading practitioners from research, advocacy and donor organisations, this text explores the ways gender professionals - specialists and experts, researchers, organizational focal points - deal with personal, power-laden realities associated with navigating gender in everyday practice. In turn, wider questions of epistemology and hierarchies of situated knowledges are examined, where gender analysis is brought into fields defined as largely techno-scientific, positivist and managerialist. Drawing on insights from feminist political ecology and feminist science, technology and society studies, the authors and their collaborators reveal and reflect upon strategies that serve to mute epistemological boundaries and enable small changes to be carved out that on occasions open up promising and alternative pathways for an equitable future. This book will be of great relevance to scholars and practitioners with an interest in environment and development, science and technology, and gender and women's studies more broadly. The Open Access version of this book, available at <https://www.taylorfrancis.com/books/e/9781351175180>, has been made available under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license.

Smart Sustainable Cities of the Future

The Untapped Potential of Big Data Analytics and Context-Aware Computing for Advancing Sustainability

Springer This book is intended to help explore the field of smart sustainable cities in its complexity, heterogeneity, and breadth, the many faces of a topical subject of major importance for the future that encompasses so much of modern

urban life in an increasingly computerized and urbanized world. Indeed, sustainable urban development is currently at the center of debate in light of several ICT visions becoming achievable and deployable computing paradigms, and shaping the way cities will evolve in the future and thus tackle complex challenges. This book integrates computer science, data science, complexity science, sustainability science, system thinking, and urban planning and design. As such, it contains innovative computer-based and data-analytic research on smart sustainable cities as complex and dynamic systems. It provides applied theoretical contributions fostering a better understanding of such systems and the synergistic relationships between the underlying physical and informational landscapes. It offers contributions pertaining to the ongoing development of computer-based and data science technologies for the processing, analysis, management, modeling, and simulation of big and context data and the associated applicability to urban systems that will advance different aspects of sustainability. This book seeks to explicitly bring together the smart city and sustainable city endeavors, and to focus on big data analytics and context-aware computing specifically. In doing so, it amalgamates the design concepts and planning principles of sustainable urban forms with the novel applications of ICT of ubiquitous computing to primarily advance sustainability. Its strength lies in combining big data and context-aware technologies and their novel applications for the sheer purpose of harnessing and leveraging the disruptive and synergetic effects of ICT on forms of city planning that are required for future forms of sustainable development. This is because the effects of such technologies reinforce one another as to their efforts for transforming urban life in a sustainable way by integrating data-centric and context-aware solutions for enhancing urban systems and facilitating coordination among urban domains. This timely and comprehensive book is aimed at a wide audience across science, academia industry, and policymaking. It provides the necessary material to inform relevant research communities of the state-of-the-art research and the latest development in the area of smart sustainable urban development, as well as a valuable reference for planners, designers, strategists, and ICT experts who are working towards the development and implementation of smart sustainable cities based on big data analytics and context-aware computing.

The Art of Co-Creation

A Guidebook for Practitioners

Springer This book illustrates how to design and implement co-creation, a powerful form of collective creativity that harnesses the potential of teams and can generate breakthrough insights. Skilled leaders and facilitators can utilize this approach to unleash the creative potential of their organizations. Drawing from years of applied research, the authors bring together insights from the fields of design and organizational development into an evocative and pragmatic “how-to” guidebook. Taking a human-centred rather than process oriented perspective, the book argues that experience design separates true co-creation from other forms of collective efforts and design thinking. Collective moments of creative insight emerge from the space between, an experience of flow and synchronicity from which new ideas spring forth. How to create and hold this space is the secret to the art of co-creation. Collective breakthroughs require stakeholders to undergo a journey from the world of their existing expertise into spaces of new potential. It requires leaders moving from a position of dominating space to holding the space for others, and developing core capacities such as empathy and awareness so that teams can engage each other co-creatively. This book uncovers the secrets of this journey, enabling process designers to develop more effective programs.

Practical Machinery Vibration Analysis and Predictive Maintenance

Elsevier Machinery Vibration Analysis and Predictive Maintenance provides a detailed examination of the detection, location and diagnosis of faults in rotating and reciprocating machinery using vibration analysis. The basics and underlying physics of vibration signals are first examined. The acquisition and processing of signals is then reviewed followed by a discussion of machinery fault diagnosis using vibration analysis. Hereafter the important issue of rectifying faults that have been identified using vibration analysis is covered. The book also covers the other techniques of predictive maintenance such as oil and particle analysis, ultrasound and infrared thermography. The latest approaches and equipment used together with the latest techniques in vibration analysis emerging from current research are also highlighted. Understand the basics of vibration measurement Apply vibration analysis for different machinery faults Diagnose machinery-related problems with vibration analysis techniques

Communication in Turbulent Times

Exploring Issue Arenas and Crisis Communication to Enhance Organisational Resilience

Vos & Schoemaker This book is characterised by a broad approach towards corporate communication, emphasising change and crisis. The focus is not on crises as an exceptional situation but rather on broader volatility in the environment. The purpose of this book is to increase the understanding of multi-stakeholder communication

concerning organisational issues and crises. From the perspective of organisational management, this book clarifies how communication contributes to organisational resilience—the ability to adapt to a changing environment and mitigate emergency crises. In today's world, change is not the exception but a constant presence. Moreover, issues and risks occur that may grow to become crises. Coping with change and unexpected events, is what the concept of 'resilience' is about. Organisational resilience is the basis for the long-term viability of organisations in a turbulent environment. Communication, in various ways, is a bridging activity that supports the capacity of the organisation to function despite risks and disruptive incidents.

Gendered Innovations in Science and Engineering

This volume, which includes essays by women scientists, researchers, journalists, and administrators, investigates how gender analysis can spark creativity in science and engineering.

University Dynamics and European Integration

Springer Science & Business Media This book explores the visions underlying the attempts to reform the European University as well as two European integration processes. It presents a framework for analyzing ongoing modernization reforms and reform debates that take place at various governance levels and a long-term research agenda. It convincingly argues why the knowledge basis under the current University reforms in Europe should be considerably strengthened.

Conservation and Sustainable Use

A Handbook of Techniques

Oxford University Press A practical and integrated approach to carrying out research on the conservation status of exploited species, from data collection to long-term management. Wildlife conservation and sustainable use have recently become centrepieces in conservation and development research.

Usage-Based Perspectives on Second Language Learning

Walter de Gruyter GmbH & Co KG This edited volume brings together perspectives that find mutual kinship in a view of language as an embodied, semiotic, symbolic tool used for communicative and interactional purposes and an understanding of language use as the preeminent condition for language learning - perspectives that we conjoin under the umbrella term of usage based perspectives.

Kampf- und Paarungsverhalten, Soziale Rangordnung und Aktivitätsperiodik Beim Rothirsch

(De)coding Modality

The Case of Must, May, Måste, and Kan

Lund University Press

Gene Expression Data Analysis

A Statistical and Machine Learning Perspective

CRC Press Development of high-throughput technologies in molecular biology during the last two decades has contributed to the production of tremendous amounts of data. Microarray and RNA sequencing are two such widely used high-throughput technologies for simultaneously monitoring the expression patterns of thousands of genes. Data produced from such experiments are voluminous (both in dimensionality and numbers of instances) and evolving in nature. Analysis of huge amounts of data toward the identification of interesting patterns that are relevant for a given biological question requires high-performance computational infrastructure as well as efficient machine learning algorithms. Cross-communication of ideas between biologists and computer scientists remains a big challenge. *Gene Expression Data Analysis: A Statistical and Machine Learning Perspective* has been written with a multidisciplinary audience in mind. The book discusses gene expression data analysis from molecular biology, machine learning, and statistical perspectives. Readers will be able to acquire both theoretical and practical knowledge of methods for

identifying novel patterns of high biological significance. To measure the effectiveness of such algorithms, we discuss statistical and biological performance metrics that can be used in real life or in a simulated environment. This book discusses a large number of benchmark algorithms, tools, systems, and repositories that are commonly used in analyzing gene expression data and validating results. This book will benefit students, researchers, and practitioners in biology, medicine, and computer science by enabling them to acquire in-depth knowledge in statistical and machine-learning-based methods for analyzing gene expression data. **Key Features:** An introduction to the Central Dogma of molecular biology and information flow in biological systems A systematic overview of the methods for generating gene expression data Background knowledge on statistical modeling and machine learning techniques Detailed methodology of analyzing gene expression data with an example case study Clustering methods for finding co-expression patterns from microarray, bulkRNA, and scRNA data A large number of practical tools, systems, and repositories that are useful for computational biologists to create, analyze, and validate biologically relevant gene expression patterns Suitable for multidisciplinary researchers and practitioners in computer science and the biological sciences

Digital Techniques for Documenting and Preserving Cultural Heritage

ARC - Collection Development, Cultural Heritage, and Digital Humanities **This book presents interdisciplinary approaches to the examination and documentation of material cultural heritage, using non-invasive spatial and spectral optical technologies.**

Preclinical MRI of the Kidney Methods and Protocols

Humana **This Open Access volume provides readers with an open access protocol collection and wide-ranging recommendations for preclinical renal MRI used in translational research. The chapters in this book are interdisciplinary in nature and bridge the gaps between physics, physiology, and medicine. They are designed to enhance training in renal MRI sciences and improve the reproducibility of renal imaging research. Chapters provide guidance for exploring, using and developing small animal renal MRI in your laboratory as a unique tool for advanced in vivo phenotyping, diagnostic imaging, and research into potential new therapies. 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. Cutting-edge and thorough, Preclinical MRI of the Kidney: Methods and Protocols is a valuable resource and will be of importance to anyone interested in the preclinical aspect of renal and cardiorenal diseases in the fields of physiology, nephrology, radiology, and cardiology. This publication is based upon work from COST Action PARENCHIMA, supported by European Cooperation in Science and Technology (COST). COST (www.cost.eu) is a funding agency for research and innovation networks. COST Actions help connect research initiatives across Europe and enable scientists to grow their ideas by sharing them with their peers. This boosts their research, career and innovation. PARENCHIMA (renalMRI.org) is a community-driven Action in the COST program of the European Union, which unites more than 200 experts in renal MRI from 30 countries with the aim to improve the reproducibility and standardization of renal MRI biomarkers.**