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The Business of Healthcare Innovation is the first wide-ranging analysis of business trends in the manufacturing segment of the health care industry. In this leading edge volume, Professor Burns focuses on the key role of the 'producers' as the main source of innovation in health systems. Written by professors of the Wharton School and industry executives, this book provides a detailed overview of the pharmaceutical, biotechnology, genomics/proteomics, medical device and information technology sectors. It analyses the market structures of these sectors as well as the business models and corporate strategies of firms operating within them. Most importantly, the book describes the growing convergence between these sectors and the need for executives in one sector to increasingly draw upon trends in the others. It will be essential reading for students and researchers in the field of health management, and of great interest to strategy scholars, industry practitioners and management consultants.

Conditions of the hair and scalp often cause significant psychological distress and sometimes physical discomfort for patients. Similarly, finding the right treatment can prove challenging for the

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physician. *Hair and Scalp Treatments -- A Practical Guide*, focuses on therapy with each chapter briefly describing the disease to the reader and then teaching the step-by-step therapeutic algorithm. Procedures commonly used in the treatment of alopecias are also reviewed and detailed in specific chapters. This book also discusses everyday questions that patients commonly ask doctors and provides practical tips such as how to recommend the best shampoo, conditioner or hair dye for your patient, or how to prescribe the right nutritional supplements. There are additional sections on future treatments on the horizon and how regenerative medicine can be used. *Hair and Scalp Treatments -- A Practical Guide*, is the only book of its kind focused on treatment and addresses topics that are not covered by current titles on hair disorders. Written and edited by leading experts in the field, this practical guide can be used not only by dermatologists but by general practice and family physicians as well.

Published to coincide with the Fourth United Nations Environmental Assembly, UN Environment's sixth Global Environment Outlook calls on decision makers to take bold and urgent action to address pressing environmental issues in order to protect the planet and human health. By bringing together hundreds of scientists, peer reviewers and collaborating institutions and partners, the GEO

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reports build on sound scientific knowledge to provide governments, local authorities, businesses and individual citizens with the information needed to guide societies to a truly sustainable world by 2050. GEO-6 outlines the current state of the environment, illustrates possible future environmental trends and analyses the effectiveness of policies. This flagship report shows how governments can put us on the path to a truly sustainable future - emphasising that urgent and inclusive action is needed to achieve a healthy planet with healthy people. This title is also available as Open Access on Cambridge Core.

Vegetarian and Plant-Based Diets in Health and Disease Prevention examines the science of vegetarian and plant-based diets and their nutritional impact on human health. This book assembles the science related to vegetarian and plant-based diets in a comprehensive, balanced, single reference that discusses both the overall benefits of plant-based diets on health and the risk of disease and issues concerning the status in certain nutrients of the individuals, while providing overall consideration to the entire spectrum of vegetarian diets. Broken into five sections, the first provides a general overview of vegetarian / plant-based diets so that readers have a foundational understanding of the topic. Dietary choices and their relation with nutritional transition and sustainability issues are discussed. The second and third sections provide a comprehensive

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description of the relationship between plant-based diets and health and disease prevention. The fourth section provides a deeper look into how the relationship between plant-based diets and health and disease prevention may differ in populations with different age or physiological status. The fifth and final section of the book details the nutrients and substances whose intakes are related to the proportions of plant or animal products in the diet. Discusses the links between health and certain important characteristics of plant-based diets at the level of food groups Analyzes the relation between plant-based diet and health at the different nutritional levels, i.e. from dietary patterns to specific nutrients and substances Provides a balanced evidence-based approach to analyze the positive and negative aspects of vegetarianism Addresses the different aspects of diets predominantly based on plants, including geographical and cultural variations of vegetarianism

Developed through theoretical thinking and tested by nurse education researchers, the NLN Jeffries Simulation Theory helps to articulate phenomena that exist within clinical simulation. By establishing and communicating known relationships within these phenomena, this theory provides a strong foundation for research and education, and enables future discovery of best practices in simulation. Through rigorous research and literature review, and by

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incorporating the perspectives of nurses immersed in simulation activities, The NLN Jeffries Simulation Theory is an effective guide to implementation and further research.

This book explores how human factors and ergonomic principles are currently transforming healthcare. It reports on the design of systems and devices to improve the quality, safety, efficiency and effectiveness of patient care, and discusses findings on improving organizational outcomes in the healthcare setting, as well as approaches to analyzing and modeling those work aspects that are unique to healthcare. Based on papers presented at the AHFE 2019 International Conference on Human Factors and Ergonomics in Healthcare and Medical Devices, held on July 24–28, 2019, in Washington, DC, USA, the book highlights the physical, cognitive and organizational aspects of human factors and ergonomic applications, and shares various perspectives, including those of clinicians, patients, health organizations, and insurance providers. Given its scope, the book offers a timely reference guide for researchers involved in the design of medical systems, and healthcare professionals managing healthcare settings, as well as healthcare counselors and international health organizations.

Biomass, Biofuels, Biochemical: Circular Bioeconomy: Current Developments and Future Outlook presents the views of experienced

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academicians and researchers working in the area of the circular bioeconomy. This book presents an assortment of Resource recovery, Waste Biorefineries, Bio-electrochemical systems, Biopolymers and Green solvents, Bio-adsorbents, and Technology transfer topics. Environmental engineers, biotechnologists, science graduates, chemical engineers, industrial experts and policymakers working in these areas will find the information on the circular economy and its important part in developing low carbon and resource-productive economies very informative. Methodologies and beneficial strategic approaches to address the usage of wastes from agriculture, co-products, and by-products are also discussed. Provides information on recent developments in technology transfer and global scenarios of circular bioeconomy as a single point of reference for any query regarding circular economies Covers information on the recovery of resources, waste biorefineries and bio-electrochemical systems, and product development surrounding the circular bioeconomy Includes information on the integration of processes and technologies for the production of biofuels and value-added products Presents strategic integrations of various techniques/bioprocess that are essential in establishing a circular biorefinery "The Kawa (Japanese for river) model uses a

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familiar metaphor of nature as an effective medium to translate subjective views of self, life, well-being and the meanings of occupations. The familiarity of the metaphor - to both therapists and clients alike - and the ease with which its framework can be comprehended and applied makes this model an effective and highly relevant tool for an increasingly diverse global clientele." "The Kawa Model will challenge occupational therapy students, practitioners, educators and researchers to comprehend their theory in a critical light and consider how to advance their practice and profession toward a more inclusive and meaningful direction."--BOOK JACKET.

Humans manifest an acute awareness of the passage of time and capacity for mental time travel, i.e., the ability to mentally place oneself in the past or future, as well as in counterfactual or hypothetical situations. The ability to perceive, estimate, and keep track of time involves multiple forms of representation (temporal concepts and frames of reference) and sensory modalities. Temporal cognition plays a critical role in various forms of memory (e.g., autobiographical memory, episodic memory, prospective memory), future-oriented thinking (foresight, planning), self-concepts, and auto-noetic consciousness. This Research Topic addresses the myriad ways that temporal cognition impacts human behavior, how it develops, its clinical

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relevance, and the extent to which aspects of temporal cognition are uniquely human. Papers in this Research Topic focus on the following: 1) Low-level perceptual mechanisms that track durations, intervals, and other temporal features of stimuli. 2) Inter-relatedness of temporal reasoning and language development. 3) Temporal cognition in children with autism. 4) Cross-domain mappings between space and time across visual and auditory modalities. 5) Assessing mental time travel as a uniquely human capacity. 6) Implications of individual differences in temporal processing for health and well-being.

Expand your students' political thinking and put global politics into context with this brand new textbook; created for the 2017 politics specifications. Combining up-to date commentary and analysis with case studies and features, this textbook will help develop an understanding of politics from the local to the international, revealing how political issues affect us all. - Comprehensive coverage of the latest developments in global politics - Analysis of the perspectives of liberalism and realism - Definitions of key terms and concepts to help clarify knowledge and understanding of political language - Exam focus sections at the end of each chapter to test and develop understanding of key topics, offering practice for short and essay questions

The Climate Change 2007 volumes of the Fourth

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Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) provide the most comprehensive and balanced assessment of climate change available. This IPCC Working Group II volume provides a completely up-to-date scientific assessment of the impacts of climate change, the vulnerability of natural and human environments, and the potential for response through adaptation. Written by the world's leading experts, the IPCC volumes will again prove to be invaluable for researchers, students, and policymakers, and will form the standard reference works for policy decisions for government and industry worldwide. This book explores how human factors and ergonomic principles are currently transforming healthcare. It reports on the design of systems and devices used to improve the quality, safety, efficiency and effectiveness of patient care, and discusses findings on improving organizational outcomes in the healthcare setting, as well as approaches to analyzing and modeling those work aspects that are unique to healthcare. Based on papers presented at the AHFE 2020 Virtual Conference on Human Factors and Ergonomics in Healthcare and Medical Devices, held on July 16–20, 2020, the book highlights the physical, cognitive and organizational aspects of human factors and ergonomic applications, and shares various perspectives, including those of clinicians,

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patients, health organizations and insurance providers. Given its scope, the book offers a timely reference guide for researchers involved in the design of medical systems and healthcare professionals managing healthcare settings, as well as healthcare counselors and international health organizations.

This Handbook aims to support policy-makers, national governments, national and regional public administrations, PPP officers, practitioners and academia in the design, implementation and assessment of appropriate responses to foster PPPs' uptake in the context of developing and emerging economies.

The challenges to global order posed by rapid environmental change are increasingly recognized as defining features of our time. In this groundbreaking work, the concept of innovation is deployed to explore normative and institutional responses in international law to such environmental change by addressing two fundamental themes: first, whether law can foresee, prevent, and adapt to environmental transformations; and second, whether international legal responses to social, economic, and technological innovation can appropriately reflect the evolving needs of contemporary societies at national and international scales. Using a range of case studies, the contributions to this collection track innovation - descriptively, normatively, and as a

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process in and of itself - to explain international environmental law's functionality in the Anthropocene. This book should be read by anyone interested in the critical intersection of environmental and international law.

This book constitutes the proceedings of two events held in conjunction with the CAiSE conferences and related to the areas of enterprise, business-process and information systems modeling: the 18th International Conference on Business Process Modeling, Development and Support, BPMDS 2017, and the 22nd International Conference on Evaluation and Modeling Methods for Systems Analysis and Development, EMMSAD, 2017. They took place in Essen, Germany, in June 2017. The focus theme for BPMDS 2017 papers was "Enabling Business Transformation by Business Process Modeling, Development and Support". From 24 submitted papers, 11 were finally accepted and organized by: Non-functional considerations in business processes; new challenges in business process modeling and support; testing business processes; business process model comprehension; an experience report on teaching business process modeling. The EMMSAD conference focuses on evaluating, exploring and enhancing modeling methods and techniques for the development of information and software systems, enterprises, and business processes. It received 25 submissions,

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from which 9 full and 2 short papers were selected and organized: evaluation and comparison of modeling languages and methods; modeling approaches to support decision making; behavioral specification and business process modeling; and modeling languages and methods in evolving context.

This two-volume set LNCS 10305 and LNCS 10306 constitutes the refereed proceedings of the 14th International Work-Conference on Artificial Neural Networks, IWANN 2017, held in Cadiz, Spain, in June 2017. The 126 revised full papers presented in this double volume were carefully reviewed and selected from 199 submissions. The papers are organized in topical sections on Bio-inspired Computing; E-Health and Computational Biology; Human Computer Interaction; Image and Signal Processing; Mathematics for Neural Networks; Self-organizing Networks; Spiking Neurons; Artificial Neural Networks in Industry ANNI'17; Computational Intelligence Tools and Techniques for Biomedical Applications; Assistive Rehabilitation Technology; Computational Intelligence Methods for Time Series; Machine Learning Applied to Vision and Robotics; Human Activity Recognition for Health and Well-Being Applications; Software Testing and Intelligent Systems; Real World Applications of BCI Systems; Machine Learning in Imbalanced Domains; Surveillance and Rescue Systems and Algorithms

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for Unmanned Aerial Vehicles; End-User Development for Social Robotics; Artificial Intelligence and Games; and Supervised, Non-Supervised, Reinforcement and Statistical Algorithms.

This book focuses on the technical, cognitive, and behavioral skills needed to implement an extracorporeal membrane oxygenation (ECMO) simulation program. It describes these programs on the individual, team, and hospital system level, and includes the history of ECMO simulation, its evolution to its current state, and future directions of technology and science related to ECMO simulation. Divided into six sections, chapters describe both the theoretical as well as the practical aspects of ECMO simulation, including a pictorial guide to setting up an ECMO simulation circuit and how to recreate ECMO emergencies. It is a pragmatic guide that emphasizes the necessary practical items and discussions necessary to plan, set-up, orchestrate, and debrief ECMO simulations for different types of learners in different Comprehensive Healthcare Simulation: ECMO Simulation - A Theoretical and Practical Guide is part of the Comprehensive Healthcare Simulation Series, and this book is intended for educators, simulation technologists, and providers involved in ECMO programs who recognize the value of simulation to improve ECMO outcomes.

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Occupational health and safety (OHS) is an important focus of governments and organizations throughout the world because there are over 2.78 million fatal and 374 million nonfatal work-related injuries and illnesses experienced by employees every year. Addressing these requires paying attention to the physical organizational, cultural, and social contexts amidst which work is undertaken. A multidisciplinary approach is also necessary in finding effective solutions. Interestingly, countries and regions address different aspects of OHS depending on what OHS hazards and risks are important to them. This book, based on research from Australia, Belgium, Ghana, Malaysia, Turkey, and Slovakia, examines how a range of OHS hazards are addressed in these contexts. We believe that this is an important first step in addressing an age-old OHS problem through a multiregional collaboration.

Developing Game Sense in Physical Education and Sport provides coaches and teachers with practical instructions to help learners develop the skills and understanding they need to effectively play games and sports. It offers instruction in invasion games, striking and fielding games, and net and wall games. Transplantation, Bioengineering, and Regeneration of the Endocrine Pancreas, Volume 1, sets a new standard in transplant and regenerative medicine. The book details the-state-of-the-art in modern

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whole pancreas and islet transplantation, including donor selection, immunosuppression, complications, allograft pathology, and more. As regenerative medicine is changing the premise of solid organ transplantation, this volume catalogs the technologies being developed and the methods being implemented to bioengineer or regenerate the endocrine pancreas in order to more effectively treat diabetes. Edited and authored by unparalleled leaders in the field, this new volume argues for a much needed synergy between organ transplantation and regenerative medicine. Provides comprehensive and cutting-edge knowledge of whole pancreas and islet transplantation Includes sections that address donor selection, immunosuppression, complications, allograft pathology, and more Offers an update on the progress of regenerative medicine research aimed at beta cells replacement in the treatment of diabetes This book highlights the latest research presented at the International Conference on Translational Medicine and Imaging (ICTMI) 2017. This event brought together the world's leading scientists, engineers and clinicians from a wide range of disciplines in the field of medical imaging. Bioimaging has continued to evolve across a wide spectrum of applications from diagnostics and personalized therapy to the mechanistic understanding of biological processes, and as a

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result there is ever-increasing demand for more robust methods and their integration with clinical and molecular data. This book presents a number of these methods.

Hair and Scalp Treatments A Practical Guide Springer
Nature

Follow along as this New York Times bestselling author details the astonishing scientific discovery of the code to unleashing the human immune system to fight in this "captivating and heartbreaking" book (The Wall Street Journal). For decades, scientists have puzzled over one of medicine's most confounding mysteries: Why doesn't our immune system recognize and fight cancer the way it does other diseases, like the common cold? As it turns out, the answer to that question can be traced to a series of tricks that cancer has developed to turn off normal immune responses -- tricks that scientists have only recently discovered and learned to defeat. The result is what many are calling cancer's "penicillin moment," a revolutionary discovery in our understanding of cancer and how to beat it. In *The Breakthrough*, New York Times bestselling author of *The Good Nurse* Charles Graeber guides readers through the revolutionary scientific research bringing immunotherapy out of the realm of the miraculous and into the forefront of twenty-first-century medical science. As advances in the fields of cancer research and the human immune system continue to

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fuel a therapeutic arms race among biotech and pharmaceutical research centers around the world, the next step -- harnessing the wealth of new information to create modern and more effective patient therapies -- is unfolding at an unprecedented pace, rapidly redefining our relationship with this all-too-human disease. Groundbreaking, riveting, and expertly told, *The Breakthrough* is the story of the game-changing scientific discoveries that unleash our natural ability to recognize and defeat cancer, as told through the experiences of the patients, physicians, and cancer immunotherapy researchers who are on the front lines. This is the incredible true story of the race to find a cure, a dispatch from the life-changing world of modern oncological science, and a brave new chapter in medical history.

This book brings together studies broadly addressing human error from different disciplines and perspectives. It discusses topics such as human performance; human variability and reliability analysis; medical, driver and pilot error, as well as automation error; root cause analyses; and the cognitive modeling of human error. In addition, it highlights cutting-edge applications in safety management, defense, security, transportation, process controls, and medicine, as well as more traditional fields of application. Based on the AHFE 2019 International Conference on Human Error, Reliability, Resilience, and Performance, held on

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July 24-28, 2019, Washington D.C., USA, the book includes experimental papers, original reviews, and reports on case studies, as well as meta-analyses, technical guidelines, best practice and methodological papers. It offers a timely reference guide for researchers and practitioners dealing with human error in a diverse range of fields.

Phosphate coatings can improve the corrosion resistance of carbon steel equipment such as carabiners. The specific porosity of the phosphate layer allows the deposition of an elastomer-based paint for absorbing mechanical shocks. The book is relevant for fundamental and applied research in the field of protective phosphate layers and their industrial applications. It also describes how to design and develop phosphating solutions that differ in the type and concentration of metal ions dissolved in phosphoric acid. Keywords: Safety Rings, Carabiners, Phosphate Coatings, Aluminum Alloys, Carbon Steels, Stainless Steels, Structural Characterization, Mechanical Characterization, Corrosion Resistance, Friction Coefficient, Temperature Shock, Mechanical Impact, Design of Carabiners, Coating Technology.

Advances in technology and media have fundamentally changed the way people perceive research, how research studies are conducted, and the ways data are analyzed/how the findings are presented. Emerging internet-enabled technological

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tools have enhanced and transformed research in education and the way educators must adapt to conduct future studies. *Advancing Educational Research With Emerging Technology* provides innovative insights into cutting-edge and long-standing digital tools in educational research and addresses theoretical, methodological, and ethical dimensions in doing research in the digital world. The content within this publication examines such topics as computational linguistics, individualized learning, and mobile technologies. The design of this publication is suited for students, professors, higher education faculty, deans, academicians, researchers, and practitioners looking to expand their research through the use of a broad range of digital tools and resources.

This book discusses the latest findings on ensuring employees' safety, health, and welfare at work. It combines a range of disciplines – e.g. work physiology, health informatics, safety engineering, workplace design, injury prevention, and occupational psychology – and presents new strategies for safety management, including accident prevention methods such as performance testing and participatory ergonomics. The book, which is based on the AHFE 2017 International Conference on Safety Management and Human Factors, held on July 17–21, 2017, in Los Angeles, California, USA, provides readers, including decision makers,

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professional ergonomists and program managers in government and public authorities, with a timely snapshot of the state of the art in the field of safety, health, and welfare management. It also addresses agencies such as the Occupational Safety and Health Administration (OSHA) and the National Institute for Occupational Safety and Health (NIOSH), as well as other professionals dealing with occupational safety and health.

This two-volume set LNCS 12777 and 12778 constitutes the thoroughly refereed proceedings of the 12th International Conference on Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management, DHM 2021, which was held virtually as part of the 23rd HCI International Conference, HCII 2021, in July 2021. The total of 1276 papers and 241 posters included in the 39 HCII 2021 proceedings volumes was carefully reviewed and selected from 5222 submissions. DHM 2021 includes a total of 56 papers; they were organized in topical sections named: Part I, Human Body, Motion and Behavior: Ergonomics, human factors and occupational health; human body and motion modeling; and language, communication and behavior modeling. Part II, AI, Product and Service: Rethinking healthcare; artificial intelligence applications and ethical issues; and digital human modeling in product and service design. Every year roughly 100,000 fatal and injury crashes

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occur in the United States involving large trucks and buses. The Federal Motor Carrier Safety Administration (FMCSA) in the U.S. Department of Transportation works to reduce crashes, injuries, and fatalities involving large trucks and buses. FMCSA uses information that is collected on the frequency of approximately 900 different violations of safety regulations discovered during (mainly) roadside inspections to assess motor carriers' compliance with Federal Motor Carrier Safety Regulations, as well as to evaluate their compliance in comparison with their peers. Through use of this information, FMCSA's Safety Measurement System (SMS) identifies carriers to receive its available interventions in order to reduce the risk of crashes across all carriers. Improving Motor Carrier Safety Measurement examines the effectiveness of the use of the percentile ranks produced by SMS for identifying high-risk carriers, and if not, what alternatives might be preferred. In addition, this report evaluates the accuracy and sufficiency of the data used by SMS, to assess whether other approaches to identifying unsafe carriers would identify high-risk carriers more effectively, and to reflect on how members of the public use the SMS and what effect making the SMS information public has had on reducing crashes.

This book focuses on emerging issues in usability, interface design, human computer interaction and

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user experience, with a special emphasis on the research aimed at understanding human-interaction and usability issues with products, services and systems for improved experience. It covers modeling as well as innovative design concepts, with a special emphasis to user-centered design, and design for special populations, particularly the elderly. Virtual reality, digital environments, heuristic evaluation and feedback of devices' interfaces (visual and haptic) are also among the topics covered in this book. Based on the AHFE 2017 Conference on Usability & User Experience, held on July 17-21, 2017, in Los Angeles, California, USA, the book describes new findings, research methods and user-centered evaluation approaches.

As digital life stories continue to assume more and more significance across a range of institutions, so too does their potential to bring into focus once marginalised and neglected voices. Breaking new ground by reframing multimedia life stories as a resource for education, public health, and policy, this book challenges policymakers, professionals, and researchers to reimagine how they find out about and respond to people's daily lives and experiences of health, disability, and well-being. The book develops theoretical, methodological, and practical resources for listening to digital stories through a series of carefully selected international case studies, from dementia care education to campaigns

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in the UN to ban cluster munitions. The case studies explore and illuminate different ways that digital stories have – and have not – been listened to in the past. The authors expose the great potential as well as the complexity of using powerful personal stories in practice. Together, the case studies highlight that processes of listening to, learning from, and making use of digital stories involve unavoidable processes of reinterpretation, recontextualisation, and translation which have significant ethical and political implications for storytellers, listeners, and society. In mapping and theorising the movement of stories into new contexts of policy and practice, the book offers a critical lens on the widely celebrated democratising potential of digital storytelling and its capacity to amplify marginalised voices. *Digital Storytelling in Health and Social Policy* develops an authoritative and original re-conceptualisation of digital life stories and their use for social justice ends, and will be important reading for researchers and practitioners from a range of backgrounds, including social policy, digital media, communication, education, disability, and public health.

Multidisciplinary treatment of the urgent issues surrounding urban pollution worldwide Written by some of the top experts on the subject in the world, this book presents the diverse, complex and current themes of the urban pollution debate across the built environment, urban development and management

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continuum. It uniquely combines the science of urban pollution with associated policy that seeks to control it, and includes a comprehensive collection of international case studies showing the status of the problem worldwide. *Urban Pollution: Science and Management* is a multifaceted collection of chapters that address the contemporary concomitant issues of increasing urban living and associated issues with contamination by offering solutions specifically for the built environment. It covers: the impacts of urban pollution; historical urban pollution; evolution of air quality policy and management in urban areas; ground gases in urban environments; bioaccessibility of trace elements in urban environments; urban wastewater collection, treatment, and disposal; living green roofs; light pollution; river ecology; greywater recycling and reuse; containment of pollution from urban waste disposal sites; bioremediation in urban pollution mitigation; air quality monitoring; urban pollution in China and India; urban planning in sub-Saharan Africa and more. Deals with both the science and the relevant policy and management issues Examines the main sources of urban pollution Covers both first-world and developing world urban pollution issues Integrates the latest scientific research with practical case studies Deals with both legacy and emerging pollutants and their effects The integration of physical and environmental sciences, combined with social, economic and political

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sciences and the use of case studies makes *Urban Pollution: Science and Management* an incredibly useful resource for policy experts, scientists, engineers and those interested in the subject.

This electronic version has been made available under a Creative Commons (BY-NC-ND) open access license. This book is available as an open access ebook under a CC-BY-NC-ND licence. *Vaccinating Britain* shows how the British public has played a central role in the development of vaccination policy since the Second World War. It explores the relationship between the public and public health through five key vaccines – diphtheria, smallpox, poliomyelitis, whooping cough and measles-mumps-rubella (MMR). It reveals that while the British public has embraced vaccination as a safe, effective and cost-efficient form of preventative medicine, demand for vaccination and trust in the authorities that provide it has ebbed and flowed according to historical circumstances. It is the first book to offer a long-term perspective on vaccination across different vaccine types. This history provides context for students and researchers interested in present-day controversies surrounding public health immunisation programmes. Historians of the post-war British welfare state will find valuable insight into changing public attitudes towards institutions of government and vice versa.

Approaches to Water Sensitive Urban Design: Potential, Design, Ecological Health, Economics, Policies and Community Perceptions covers all aspects on the implementation of sustainable storm water systems for urban and suburban areas whether they are labeled as WSUD, Low Impact Development (LID), Green Infrastructure (GI), Sustainable Urban Drainage Systems (SUDS) or the Sponge City Concept. These systems and approaches are becoming

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an integral part of developing water sensitive cities as they are considered very capable solutions in addressing issues relating to urbanization, climate change and heat island impacts in dealing with storm water issues. The book is based on research conducted in Australia and around the world, bringing in perspectives in an ecosystems approach, a water quality approach, and a sewer based approach to stormwater, all of which are uniquely covered in this single resource. Presents a holistic examination of the current knowledge on WSUD and storm water, including water quality, hydrology, social impacts, economic impacts, ecosystem health, and implementation guidelines Includes additional global approaches to WSUD, including SUDS, LID, GI and the Sponge City Concept Covers the different perspectives from Australia (ecosystem based), the USA (water quality based) and Europe (sewer based) Addresses storm water management during the civil construction stage when much of the ecological damage can be done Modern technology has impacted healthcare and interactions between patients and healthcare providers through a variety of means including the internet, social media, mobile devices, and the internet of things. These new technologies have empowered, frustrated, educated, and confused patients by making educational materials more widely available and allowing patients to monitor their own vital signs and self-diagnose. Further analysis of these and future technologies is needed in order to provide new approaches to empowerment, reduce mistakes, and improve overall healthcare. Impacts of Information Technology on Patient Care and Empowerment is a critical scholarly resource that delves into patient access to information and the effect that access has on their relationship with healthcare providers and their health outcomes. Featuring a range of topics such as gamification, mobile computing, and risk analysis, this book is ideal for

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healthcare practitioners, doctors, nurses, surgeons, hospital staff, medical administrators, patient advocates, researchers, academicians, policymakers, and healthcare students.

This book focuses on novel design and systems engineering approaches, including theories and best practices, for promoting a better integration of people and engineering systems. It covers a range of hot topics related to: development of activity-centered and user-centered systems; interface design and human-computer interaction; usability and user experience; cooperative, participatory and contextual models; emergent properties of human behavior; innovative materials in manufacturing, and many more.

Particular emphasis is placed on applications in sports, healthcare, and medicine. The book, which gathers selected papers presented at the 1st International Conference on Human Systems Engineering and Design: Future Trends and Applications (IHSED 2018), held on October 25-27, 2018, at CHU-Université de Reims Champagne-Ardenne, France, provides researchers, practitioners and program managers with a snapshot of the state-of-the-art and current challenges in the field of human systems engineering and design.

This 2-volume set constitutes the refereed proceedings of the 9th Iberian Conference on Pattern Recognition and Image Analysis, IbPRIA 2019, held in Madrid, Spain, in July 2019.

The 99 papers in these volumes were carefully reviewed and selected from 137 submissions. They are organized in topical sections named: Part I: best ranked papers; machine learning; pattern recognition; image processing and representation. Part II: biometrics; handwriting and document analysis; other applications.

This volume, developed by the Observatory together with OECD, provides an overall conceptual framework for understanding and applying strategies aimed at improving quality of care. Crucially, it summarizes available evidence on

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different quality strategies and provides recommendations for their implementation. This book is intended to help policy-makers to understand concepts of quality and to support them to evaluate single strategies and combinations of strategies.

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