

March 2014 Life Science Paper

Intellectual property (IP) is a key component of the life sciences, one of the most dynamic and innovative fields of technology today. At the same time, the relationship between IP and the life sciences raises new public policy dilemmas. The Research Handbook on Intellectual Property and the Life Sciences comprises contributions by leading experts from academia and industry to provide in-depth analyses of key topics including pharmaceuticals, diagnostics and genes, plant innovations, stem cells, the role of competition law and access to medicines. The Research Handbook focuses on the relationship between IP and the life sciences in Europe and the United States, complemented by country-specific case studies on Australia, Brazil, China, India, Japan, Kenya, South Africa and Thailand to provide a truly international perspective.

Levelling the Playing Field explores the technologies that "trickle down" to the rest of us, those that were once the domain of the wealthy and powerful—and which therefore tended to make them even more wealthy and powerful. Now, though, these technologies—from books to computers to 3D printing and beyond—have become part of a common toolkit, one accessible to almost anyone, or at least to many more than had heretofore had access. This is what happens with most technologies: They begin in the hands of the few, and they end up in the hands of the many. Along the way, they sometimes transform the world.

This book constitutes the thoroughly refereed post-conference proceedings of the Second International Workshop on Data Management and Analytics for Medicine and Healthcare, DMAH 2016, in New Delhi, India, in September 2016, held in conjunction with the 42nd International Conference on Very Large Data Bases, VLDB 2016. The 7 revised full papers presented together with 2 invited papers and 3 keynote abstracts were carefully reviewed and selected from 11 initial submissions. The papers are organized in topical sections on knowledge discovery of biomedical data; managing, querying and processing of medical image data; information extraction and data integration for biomedical data; and health information systems.

An insider's view of China's under-the-radar, globally competitive innovators. Chinese innovators are making their mark globally. Not only do such giants as Alibaba and Huawei continue to thrive and grow through innovation, thousands of younger Chinese entrepreneurs are poised to enter the global marketplace. In this book, Mark Greeven, George Yip, and Wei Wei offer an insider's view of China's under-the-radar, globally competitive innovators. The authors, all experts on Chinese innovation, distinguish four types of innovators in China: pioneers, large companies that are globally known; hidden champions, midsize enterprises that are market leaders in their niches; underdogs, technology-driven ventures with significant intellectual property; and changemakers, newer firms characterized by digital disruption, exponential growth, and cross-industry innovations. They investigate what kinds of innovations these companies develop (product, process, and business model), their competitive strategies, and key drivers of innovation. They identify six typical ways Chinese entrepreneurs innovate, including swarm innovation (collectively pursuing opportunities) and rapid centralized decision making. Finally, they look at how Chinese innovators are going global, whether building R&D networks internationally or exporting disruptive business models. The book includes many examples of Chinese innovators and innovations, drawn from a range of companies—from pioneers to changemakers—including Alibaba, Haier, Hikvision, Malong Technology, Weihua Solar, Mobike, and Cheetaa Mobile. Greeven, Yip, and Wei offer an essential guide to what makes China a heavyweight competitor in the global marketplace.

Understanding Anesthetic Equipment & Procedures

Plasticity of GABAergic Synapses

The Theatrical Professoriate

Professional Nursing and Midwifery Practice [Custom Edition for Monash University]

Modeling, Dynamics, Optimization and Bioeconomics II

150 technical questions and answers for job interview Offshore Drilling Rigs

Global Health Informatics: How Information Technology Can Change Our Lives in a Globalized World discusses the critical role of information and communication technologies in health practice, health systems management and research in increasingly interconnected societies. In a global interconnected world the old standalone institutional information systems have proved to be inadequate for patient-centered care provided by multiple providers, for the early detection and response to emerging and re-emerging diseases, and to guide population-oriented public health interventions. The book reviews pertinent aspects and successful current experiences related to standards for health information systems; digital systems as a support for decision making, diagnosis and therapy; professional and client education and training; health systems operation; and intergovernmental collaboration. Discusses how standalone systems can compromise health care in globalized world Provides information on how information and communication technologies (ICT) can support diagnose, treatment, and prevention of emerging and re-emerging diseases Presents case studies about integrated information and how and why to share data can facilitate governance and strategies to improve life conditions

This book argues that today's professoriate has become increasingly theatrical, largely as a result of neoliberal policies in higher education, but also in response to an anti-intellectual scrutiny that has become pervasive throughout the Western world. The Theatrical Professoriate: Contemporary Higher Education and Its Academic Dramas examines how the Western professoriate increasingly finds itself enacting command performances that utilize scripting, characterization, surrogation, and spectacle—the hallmarks of theatricality—toward neoliberal ends. Rowworthy explores how the theatrical nature of today's professoriate and the resultant glut of performances about academia on stage and screen have contributed to a highly ambivalent public fascination with academia. She further documents the "theatrical turn" witnessed in American higher education, as academic institutions use performance to intervene in the diversity issues and disciplinary disparities fueled by neoliberalism. By analyzing academic dramas and their audience reception alongside theoretical approaches, the author reveals how contemporary academia drives the professoriate to perform in what seem like increasingly artificial ways. Ideal for practitioners and students of education, education studies, and performance studies.

In September 2011, scientists announced new experimental findings that would not only threaten the conduct and publication of influenza research, but would have significant policy and intelligence implications. The findings presented a modified variant of the H5N1 avian influenza virus (hereafter referred to as the H5N1 virus) that was transmissible via aerosol between ferrets. These results suggested a worrisome possibility: the existence of a new airborne and highly lethal H5N1 virus that could cause a deadly global pandemic. In response, a series of international discussions on the nature of dual-use life science arose. These discussions addressed the complex social, technical, political, security, and ethical issues related to dual-use research. This Research Topic will be devoted to contributions that explore this matrix of issues from a variety of case study and international perspectives.

The essential guide by one of America's leading doctors to how digital technology enables all of us to take charge of our health A trip to the doctor is almost a guarantee of misery. You'll make an appointment months in advance. You'll probably wait for several hours until you hear "the doctor will see you now"—but only for fifteen minutes! Then you'll wait even longer for lab tests, the results of which you'll likely never see, unless they indicate further (and more invasive) tests, most of which will probably prove unnecessary (much like physicals themselves). And your bill will be astronomical. In The Patient Will See You Now, Eric Topol, one of the nation's top physicians, shows why medicine does not have to be that way. Instead, you could use your smartphone to get rapid test results from one drop of blood, monitor your vital signs both day and night, and use an artificially intelligent algorithm to receive a diagnosis without having to see a doctor, all at a small fraction of the cost imposed by our modern healthcare system. The change is powered by what Topol calls medicine's "Gutenberg moment." Much as the printing press took learning out of the hands of a priestly class, the mobile internet is doing the same for medicine, giving us unprecedented control over our healthcare. With smartphones in hand, we are no longer beholden to an impersonal and paternalistic system in which "doctor knows best." Medicine has been digitized, Topol argues; now it will be democratized. Computers will replace physicians for many diagnostic tasks, citizen science will give rise to citizen medicine, and enormous data sets will give us new means to attack conditions that have long been incurable. Massive, open, online medicine, where diagnostics are done by Facebook-like comparisons of medical profiles, will enable real-time, real-world research on massive populations. There's no doubt the path forward will be complicated: the medical establishment will resist these changes, and digitized medicine inevitably raises serious issues surrounding privacy. Nevertheless, the result—better, cheaper, and more human health care—will be worth it. Provocative and engrossing, The Patient Will See You Now is essential reading for anyone who thinks they deserve better health care. That is, for all of us.

200 technical questions and answers for job interview Offshore Oil & Gas Rigs

DGS III, Porto, Portugal, February 2014, and Bioeconomy VII, Berkeley, USA, March 2014 – Selected Contributions

The Patient Will See You Now

A Practical Approach

Artificial Life and Intelligent Agents

FrontLines

!My favorite book of the year.!!!Doug McMillon, CEO, Wal-Mart Stores Harvard Business School Professor of Strategy Bharat Anand presents an incisive new approach to digital transformation that favors fostering connectivity over focusing exclusively on content. NAMED ONE OF THE BEST BOOKS OF THE YEAR BY BLOOMBERG Companies everywhere face two major challenges today: getting noticed and getting paid. To confront these obstacles, Bharat Anand examines a range of businesses around the world, from The New York Times to The Economist, from Chinese Internet giant Tencent to Scandinavian digital trailblazer Schibsted, and from talent management to the future of education. Drawing on these stories and on the latest research in economics, strategy, and marketing, this refreshingly engaging book reveals important lessons, smashes celebrated myths, and reorients strategy. Success for flourishing companies comes not from making the best content but from recognizing how content enables customers' connectivity; it comes not from protecting the value of content at all costs but from unearthing related opportunities close by; and it comes not from mimicking competitors' best practices but from seeing choices as part of a connected whole. Digital change means that everyone today can reach and interact with others directly. We are all in the content business. But that comes with risks that Bharat Anand teaches us how to recognize and navigate. Filled with conversations with key players and in-depth dispatches from the front lines of digital change, The Content Trap is an essential new playbook for navigating the turbulent waters in which we find ourselves. Praise for The Content Trap iA masterful and thought-provoking book that has reshaped my understanding of content in the digital landscape.!!!Ariel Emanuel, co-CEO, WME | IMG !!!The Content Trap is a book filled with stories of businesses, from music companies to magazine publishers, that missed connections and could never escape the narrow views that had brought them past success. But it is also filled with stories of those who made strategic choices to strengthen the links between content and returns in their new master plans. . . . The book is a call to clear thinking and reassessing why things are the way they are.!!!The Wall Street Journal

This two-volume book unveils trends, strengths, weaknesses and overall dynamics and implications of social entrepreneurship in the Middle East region, whilst identifying both opportunities and threats facing social entrepreneurship and supplements through a wealth of insights and examples inspired from practice and current applications.

Tailoring of biomolecules using protein engineering technology, and host cells culture techniques are among the most sophisticated and elegant achievements of modern applied life sciences in how the classical stepwise host cells culture (mammals, animals, plants, and bacteria) methodology has been changed to fully continuous or partially continuous host cells culture process in order to economise the biopharmaceutical products manufacturing process. In addition this volume narrates a brief history on conceptual development of new thoughts in designing biotechnology industries for commercial production of variety of therapeutic proteins with structural modification on the basis of clinical requirements. The readers will feel excited by going through the latest discovery and development in applied life sciences for designing innovative biomolecules for health care with utmost safe. The most interesting part of this volume is newly developed concept on bioprinting. It explains how to design and fabricate animate objects by fusing or depositing material of interest in the form of powders, solid dusts, metal, liquid or even living cells or tissues by layers to produce 3D objectives. The first volume ends with the latest information on the current trend in biologics market, market dynamic, drives, and opportunities with challenges.

"Louise Stephen's powerful, no-holds-barred demolition of Big Food dissects the profit motive that has filled our food supply with toxic oils and sugar, and shows us how money is destroying our health." DAVID GILLESPIE Our diet has changed radically in the space of 100 years. We have swapped home-cooked food made with whole ingredients for processed food made from sugar, seed oils and refined wheat. Modern-day food is cheap, convenient and accessible, but also hugely destructive to our health. Former business consultant Louise Stephen developed an autoimmune disease in her early thirties, which led to renal failure and a kidney transplant. As a middle-class professional from a wealthy Western country, she was perplexed as to how she had become so ill. She started to investigate, using her business and research skills to find out what she could about diet and how it relates to health. What she uncovered will change the way you think about processed food - frozen dinners, breakfast cereals, packaged snacks, dips, flavoured drinks, bottled sauces - and the industry that is profiting from the commodification and toxication of our food supply. Stephen shows us how Big Food is picking up where Big Tobacco left off, employing skilful marketing to nudge us towards increasingly processed food, while hoping we'll fail to notice the commensurate rise in obesity and decline in health. Stephen reveals how governments and peak health bodies are often powerless to intervene and, even worse, are sometimes complicit in convincing us to ditch our wholesome ingredients for factory-made products. This is not a diet book. Meticulously researched and compellingly argued, Eating Ourselves Sick shines a light on the powerful forces that stand between us and a healthy diet.

Competitive Strategies in Life Sciences

The International Journal of Indian Psychology, Volume 3, Issue 4, No. 67

First International Symposium, ALIA 2014, Bangor, UK, November 5-6, 2014. Revised Selected Papers

Dual-use life science research and biosecurity in the 21st Century: Social, Technical, Policy, and Ethical Challenges

Global Health Informatics

Social Entrepreneurship in the Middle East

This book fills a significant gap in the critical conversation on race in media by extending interrogations of racial colorblindness in American television to the industrial practices that shape what we see on screen. Specifically, it frames the practice of colorblind casting as a potent lens for examining the interdependence of 21st century post-racial politics and popular culture. Applying a production as culture' approach to a series of casting case studies from American primetime drama television, including ABC's Grey's Anatomy and The CW's The Vampire Diaries, Kristen Warner complicates our understanding of the cultural processes that inform casting and expounds the aesthetic and pragmatic industrial viewpoints that perpetuate limiting or downright exclusionary hiring norms. She also examines the material effects of actors of color who knowingly participate in this system and justify their limited roles as a consequence of employment, and finally speculates what alternatives, if any, are available to correct these practices. Warner's insights are a valuable addition to scholarship in media industry studies, critical race theory, ethnic studies, and audience reception, and will also appeal to those with a general interest in race in popular culture.

This book constitutes the refereed proceedings of the First International Symposium on Artificial Life and Intelligent Agents, ALIA 2014, held in Bangor, UK, in November 2014. The 10 revised full papers were carefully reviewed and selected from 20 submissions. The papers are organized in topical sections on learning and evolution; human interaction; robotic simulation.

The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains questions and answers for job interview and as a BONUS web addresses to 100 video movies for a better understanding of the technological process. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry.

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The Future of Medicine Is in Your Hands

Research Handbook on Intellectual Property and the Life Sciences

A Journey Through Music, Performance, and the Science of Time

China Management and Analytics for Medicine and Healthcare

Helping teachers meet the challenge

The endoplasmic reticulum (ER) is a manufacturing unit in eukaryotic cells required for the synthesis of proteins, lipids, metabolites and hormones. Besides supporting cellular signalling networks by its anabolic function, the ER on its own or in communication with other organelles directly initiates signalling processes of physiological significance. Based on the intimate and immediate involvement in stress signalling the ER is considered as sensory organelle on which cells strongly rely to effectively translate environmental cues into adaptive stress responses. The transcellular distribution of the ER providing comprehensive cell-to-cell connections in multicellular organisms probably allows a concerted action of cell alliances and tissue areas towards environmental constraints. At the cellular level, stress adaptation correlates with the capability of the ER machinery to synthesise proteins participating in stress signalling as well as in the activation of ER membrane localised proteins to start cell-protective signalling processes. Importantly, depending on the stress input, the ER either supports protective strategies or initiates cell death programmes. Recent, genetic, molecular and cell biological studies have drawn an initial picture of underlying signalling events activated by ER membrane localised proteins. In this Research Topic, we provided a platform for articles describing research on ER morphology and metabolism with a focus on stress translocation. The Research Topic is sub-divided into the following sections: 1. ER in stress signalling and adaptation 2. ER structure and biosynthetic functions 3. Regulation of protein processing 4. Regulation of programmed cell death Every upcoming frontline is one cutting edge of an economic system and political ideology that is destroying life on earth. Revealing our ecosystems to be under a sustained attack, Nick Meynen finds causes for hope in unconventional places. In his wide-ranging journalism and writing, Nick Meynen has been vividly mapping struggles for justice around the world. His new book is a rich collection of the human stories of those struggles, from resistance to mining in India and Greece, to land grabbing in Uganda, to a landmark climate lawsuit in the Netherlands. The book offers the power of lived experience, and brings out most of the high-stakes policy debates to life, and develops a wide interpretive lens. This Changes Everything Capitalism vs. the Climate

Human Factors and Ergonomics have made a considerable contribution to the research, design, development, operation and analysis of transportation systems which includes road and rail vehicles and their complementary infrastructure, aviation and maritime transportation. This book presents recent advances in the Human Factors aspects of Transportation. These advances include accident analysis, automation of vehicles, comfort, distraction of drivers (including discussion of distraction and how to avoid it), environmental concerns, in-vehicle systems design, intelligent transport systems, methodological developments, new systems and technology, observational and case studies, safety, situation awareness, skill development and training, warnings and workload. This book brings together the most recent human factors work in the transportation domain, including empirical research, human performance and other types of modelling, analysis, and development. The issues facing engineers, scientists, and other practitioners of human factors in transportation research are becoming more challenging and more critical. The common theme across these sections is that they deal with the intersection of the human and the system. Moreover, many of the chapter topics cross section boundaries, for instance by focusing on function allocation in NextGen or the safety benefits of a tower controller tool. This is in keeping with the systemic nature of the problems facing human factors experts in rail and road, aviation and maritime research-it is becoming increasingly important to view problems not as isolated issues that can be extracted from the system environment, but as embedded issues that can only be understood as a part of an overall system.

The rise of digital health technologies is, for some, a panacea to many of the medical and public health challenges we face today. This is the first book to articulate a critical response to the techno-utopian and entrepreneurial vision of the digital health phenomenon. Deborah Lupton, internationally renowned for her scholarship on the sociocultural and political aspects of medicine and health as well as digital technologies, addresses a range of compelling issues about the interests digital health represents, and its unintended effects on patients, doctors and how we conceive of public health and healthcare delivery. Bringing together social and cultural theory with empirical research, the book challenges apolitical approaches to examine the impact new technologies have on social justice, and the implication for social and economic inequalities. Lupton considers how self-tracking devices change the patient-doctor relationship, and how the digitisation and gamification of healthcare through apps and other software affects the way we perceive and respond to our bodies. She asks which commercial interests enable different groups to communicate more widely, and how the personal data generated from digital encounters are exploited. Considering the lived experience of digital health technologies, including their emotional and sensory dimensions, the book also assesses their broader impact on medical and public health knowledges, power relations and work practices. Relevant to students and researchers interested in medicine and public health across sociology, psychology, anthropology, new media and cultural studies, as well as policy makers and professionals in the field, this is a timely contribution on an important issue.

100 technical questions and answers for job interview Offshore Drilling Rigs

National Security, Public Health: Exceptions to Human Rights?

Levelling the Playing Field

The Cultural Politics of Colorblind TV Casting

273 technical questions and answers for job interview Offshore Drilling Rigs

Uncommon Measure

2017 PROSE Award Honorable Mention The PROSE Awards draw attention to pioneering works of research and for contributions to the conception, production, and design of landmark works in their fields. Featuring peer-reviewed contributions from noted experts in their fields of research, Reproducibility: Principles, Problems, Practices, and Prospects presents state-of-the-art approaches to reproducibility, the gold standard of sound science, from multi- and interdisciplinary perspectives. Including comprehensive coverage for implementing and reflecting the norm of reproducibility in various pertinent fields of research, the book focuses on how the reproducibility of results is applied, how it may be limited, and how such limitations can be understood or even controlled in the natural sciences, computational sciences, life sciences, social sciences, and studies of science and technology. The book presents many chapters devoted to a variety of methods and techniques, as well as their epistemic and ontological underpinnings, which have been developed to safeguard reproducible research and curtail deficits and failures. The book also investigates the political, historical, and social practices that underlie reproducible research in contemporary science studies, including the difficulties of good scientific practice and the ethos of reproducibility in modern innovation societies. Reproducibility: Principles, Problems, Practices, and Prospects is a guide for researchers who are interested in the general and overarching questions behind the concept of reproducibility; for active scientists who are confronted with practical reproducibility problems in their everyday work; and for economic stakeholders and political decision makers who need to better understand the challenges of reproducibility. In addition, the book is a useful in-depth primer for undergraduate and graduate-level courses in scientific methodology and basic issues in the philosophy and sociology of science from a modern perspective. "A comprehensive, insightful treatment of the reproducibility challenge facing science today and the ways in which the scientific community can address them." Kathleen Hall Jamieson, Elizabeth Ware Packard Professor of Communication, University of Pennsylvania "How can we make sure that reproducible research remains a key imperative of scientific communication under increasing commercialization, media attention, and publication pressure? This handbook offers the first interdisciplinary and fundamental treatment of this important question."Torsten Hohorn, Professor of Biostatistics, University of Zurich Harald Atmanspacher, PhD, is Associate Fellow and staff member at Collegium Helveticum, ETH and University Zurich and is also President of the Society for Mind-Matter Research. He has pioneered advances in complex dynamical systems research and in a number of topics concerned with the relation between the mental and physical. Sabine Maassen, PhD, is Professor for Sociology of Science and Director of the Munich Center for Technology in Society (TU Munich) and Associate Fellow at Collegium Helveticum (ETH and University Zurich). Her research focuses on the interface of science, technology, and society, notably with respect to neuroscience and its applications.

Eating Ourselves SickMacmillan Publishers Aus.

Debates on the human-rights implications of new and emerging technologies have been hampered by the lack of a comprehensive theoretical framework for the complex issues involved. This volume provides that framework, bringing a multidisciplinary and international perspective to the evolution of human rights in the digital and biotechnological era. It delves into the latest frontiers of technological innovation in the life sciences and information technology sectors, such as neurotechnology, robotics, genetic engineering, and artificial intelligence. Leading experts from the technological, medical, and social sciences as well as law, philosophy, and business share their extensive knowledge about the transformation of the rights framework in response to technological innovation. In addition to providing a comprehensive, interdisciplinary, and international state-of-the art descriptive analysis, the volume also offers policy recommendations to protect and promote human rights in the context of emerging socio-technological trends.

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Translational Regenerative Medicine

Stories of Global Environmental Justice

Technical questions and answers for job interview Offshore Oil & Gas Platforms

A Strategist's Guide to Digital Change

The Cambridge Handbook of Information Technology, Life Sciences and Human Rights

Endoplasmic reticulum – shape and function in stress translocation

Citizen science, the active participation of the public in scientific research projects, is a rapidly expanding field in open science and open innovation. It provides an integrated model of public knowledge production and engagement with science. As a growing worldwide phenomenon, it is invigorated by evolving new technologies that connect people easily and effectively with the scientific community. Catalysed by citizens' wishes to be actively involved in scientific processes, as a result of recent societal trends, it also offers contributions to the rise in tertiary education. In addition, citizen science provides a valuable tool for citizens to play a more active role in sustainable development. This book identifies and explains the role of citizen science within innovation in science and society, and as a vibrant and productive science-policy interface. The scope of this volume is global, geared towards identifying solutions and lessons to be applied across science, practice and policy. The chapters consider the role of citizen science in the context of the wider agenda of open science and open innovation, and discuss progress towards responsible research and innovation, two of the most critical aspects of science today. This open access book provides a broad context for the understanding of current problems of science and of the different movements aiming to improve the societal impact of science and research. The author offers insights with regard to ideas, old and new, about science, and their historical origins in philosophy and sociology of science, which is of interest to a broad readership. The book shows that scientifically grounded knowledge is required and helpful in understanding intellectual and political positions in various discussions on the grand challenges of our time and how science makes impact on society. The book reveals why interventions that look good or even obvious, are often met with resistance and are hard to realize in practice. Based on a thorough analysis, as well as personal experiences in aids research, the author offers a realistic narrative about how research is conducted, and how reliable 'objective' knowledge is produced. His idea of science, which draws heavily on American pragmatism, fits in with the global Open Science movement. It is argued that Open Science is a truly and historically unique movement in that it translates the analysis of the problems of science into major institutional actions of system change in order to improve academic culture and the impact of science, engaging all actors in the field of science and academia.

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Toward a Sustainable Future

Citizen Science

Pioneers, Hidden Champions, Changemakers, and Underdogs
Second International Workshop, DMAH 2016, New Delhi, India, September 9, 2016, Revised Selected Papers

Enabling Technologies for Space Exploration

Advances in Human Aspects of Transportation: Part I

Learning and memory are believed to depend on plastic changes of neuronal circuits due to activity-dependent potentiation or depression of specific synapses. During the last two decades, plasticity of brain circuits was hypothesized to mainly rely on the flexibility of glutamatergic excitatory synapses, whereas inhibitory synapses were assumed relatively invariant, to ensure stable and reliable control of the neuronal network. As a consequence, while considerable efforts were made to clarify the main mechanisms underlying plasticity at excitatory synapses, the study of the cellular/molecular mechanisms of inhibitory plasticity has received much less attention. Nevertheless, an increasing body of evidence has revealed that inhibitory synapses undergo several types of plasticity at both pre- and postsynaptic levels. Given the crucial role of inhibitory interneurons in shaping network activities, such as generation of oscillations, selection of cell assemblies and signal integration, modifications of the inhibitory synaptic strength represents an extraordinary source of versatility for the fine control of brain states. This versatility also results from the rich diversity of GABAergic neurons in several brain areas, the specific role played by each inhibitory neuron subtype within a given circuit, and the heterogeneity of the properties and modulation of GABAergic synapses formed by specific interneuron classes. The molecular mechanisms underlying the potentiation or depression of inhibitory synapses are now beginning to be unraveled. At the presynaptic level, retrograde synaptic signaling was demonstrated to modulate GABA release, whereas postsynaptic forms of plasticity involve changes in the number/gating properties of GABAA receptors and/or shifts of chloride gradients. In addition, recent research indicates that GABAergic tonic inhibition can also be plastic, adding a further level of complexity to the control of the excitatory/inhibitory balance in the brain. The present Topic will focus on plasticity of GABAergic synapses, with special emphasis on the molecular mechanisms of plasticity induction and/or expression.

The updated and expanded third edition of this book focuses on the multi-disciplinary coupling between flight-vehicle hardware alternatives and enabling propulsion systems. It discusses how to match near-term and far-term aerospace vehicles to missions and provides a comprehensive overview of the subject, directly contributing to the next-generation space infrastructure, from space tourism to space exploration. This holistic treatment defines a mission portfolio addressing near-term to long-term space transportation needs covering sub-orbital, orbital and escape flight profiles. In this context, a vehicle configuration classification is introduced covering alternatives starting from the dawn of space access. A best-practice parametric sizing approach is introduced to correctly design the flight vehicle for the mission. This technique balances required mission with the available vehicle solution space and is an essential capability sought after by technology forecasters and strategic planners alike.

The skills, knowledge and understanding of the subjects involved in STEM (Science, Technology, Engineering and Mathematics) are vital for all young people in an increasingly science- and technology-driven society. This book looks at the purpose and pedagogy of STEM teaching and explores the ways in which STEM subjects can interact in the curriculum to enhance student understanding, achievement and motivation. By reaching outside their own classroom, teachers can collaborate across subjects to enrich learning and help students relate school science, technology and maths to the wider world. Packed with ideas and practical details for teachers of STEM subjects, this book considers what the STEM subjects contribute separately to the curriculum and how they relate to each other in the wider education of secondary school students describes and evaluates different curriculum models for STEM suggests ways in which a critical approach to the pedagogy of the classroom,

laboratory and workshop can support STEM for all students addresses the practicalities of introducing, organising and sustaining STEM-related activities in the secondary school looks to ways schools can manage and sustain STEM approaches in the long-term. This timely new text is essential reading for trainee and practising teachers who wish to make the learning of Science, Technology, Engineering and Mathematics an interesting, motivating and exciting experience for their students. This new edition presents practising and trainee anaesthesiologists with the latest advances and guidelines in their field. Beginning with an introduction to the history of anaesthesia, basic physics, and medical gases, the following sections cover the anaesthesia machine, airway and monitoring equipment, and apparatus for central neuraxial and regional blocks. The final chapters discuss interpretation of radiological images, simulators in anaesthesia, maintenance, safety and cleaning, and more. The second edition has been fully revised to provide up to date information and a clear understanding of practices and techniques for anaesthesia. The book features clinical photographs and diagrams and includes two interactive DVD ROMs demonstrating and explain day to day anaesthetic procedures. Key points Fully revised, new edition presenting latest techniques and information in anaesthesia Covers all different aspects of equipment in depth Includes DVD ROMs demonstrating anaesthetic procedures Previous edition (9789351521242) published in 2014

Eating Ourselves Sick
How Information Technology Can Change Our Lives in a Globalized World
Volume 2
The Content Trap
Critical and Cross-Disciplinary Perspectives
Reproducibility

Translational Regenerative Medicine is a reference book that outlines the life cycle for effective implementation of discoveries in the dynamic field of regenerative medicine. By addressing science, technology, development, regulatory, manufacturing, intellectual property, investment, financial, and clinical aspects of the field, this work takes a holistic look at the translation of science and disseminates knowledge for practical use of regenerative medicine tools, therapeutics, and diagnostics. Incorporating contributions from leaders in the fields of translational science across academia, industry, and government, this book establishes a more fluid transition for rapid translation of research to enhance human health and well-being. Provides formulaic coverage of the landscape, process development, manufacturing, challenges, evaluation, and regulatory aspects of the most promising regenerative medicine clinical applications Covers clinical aspects of regenerative medicine related to skin, cartilage, tendons, ligaments, joints, bone, fat, muscle, vascular system, hematopoietic /immune system, peripheral nerve, central nervous system, endocrine system, ophthalmic system, auditory system, oral system, respiratory system, cardiac system, renal system, hepatic system, gastrointestinal system, genitourinary system Identifies effective, proven tools and metrics to identify and pursue clinical and commercial regenerative medicine

The concepts and techniques presented in this volume originated from the fields of dynamics, statistics, control theory, computer science and informatics, and are applied to novel and innovative real-world applications. Over the past few decades, the use of dynamic systems, control theory, computing, data mining, machine learning and simulation has gained the attention of numerous researchers from all over the world. Admirable scientific projects using both model-free and model-based methods coevolved at today 's research centers and are introduced in conferences around the world, yielding new scientific advances and helping to solve important real-world problems. One important area of progress is the bioeconomy, where advances in the life sciences are used to produce new products in a sustainable and clean manner. In this book, scientists from all over the world share their latest insights and important findings in the field. The majority of the contributed papers for this volume were written by participants of the 3rd International Conference on Dynamics, Games and Science, DGSIII, held at the University of Porto in February 2014, and at the Berkeley Bioeconomy Conference at the University of California at Berkeley in March 2014. The aim of the project of this book " Modeling, Dynamics, Optimization and Bioeconomics II " follows the same aim as its companion piece, " Modeling, Dynamics, Optimization and Bioeconomics I, " namely, the exploration of emerging and cutting-edge theories and methods for modeling, optimization, dynamics and bioeconomy.

This custom book was compiled by the School of Nursing and Midwifery at Monash University for undergraduate nursing students undertaking NUR1110, NUR1111 and NUR1113. It includes handpicked content from the following bestselling nursing titles: Communication: Core Interpersonal Skills for Health Professionals, 3rd Edition Psychology for Health Professionals, 2nd Edition Patient and Person: Interpersonal Skills in Nursing, 5th Edition The Clinical Placement: An essential guide for nursing students, 3rd Edition Potter and Perry's Fundamentals of Nursing - ANZ, 5th Edition Contexts of Nursing: An Introduction, 4th Edition Introduction to Public Health, 3rd Edition Essentials of Law for Health Professionals, 4th Edition NEW YORK TIMES EDITORS' CHOICE A virtuosic debut from a gifted violinist searching for a new mode of artistic becoming How does time shape consciousness and consciousness, time? Do we live in time, or does time live in us? And how does music, with its patterns of rhythm and harmony, inform our experience of time? Uncommon Measure explores these questions from the perspective of a young Korean American who dedicated herself to perfecting her art until performance anxiety forced her to give up the dream of becoming a concert solo violinist. Anchoring her story in illuminating research in neuroscience and quantum physics, Hodges traces her own passage through difficult family dynamics, prejudice, and enormous personal expectations to come to terms with the meaning of a life reimagined—one still shaped by classical music but moving toward the freedom of improvisation. The Democratization of Technology

Contemporary Higher Education and Its Academic Dramas
Lessons from China's Innovators
The Entrepreneurship Movement and the University
Innovation in Open Science, Society and Policy
Principles, Problems, Practices, and Prospects

The book deals with the complicated relationships between national security and human rights, and between public health and human rights. Its premise is the fact that national security and public health are both included in human rights instruments as 'exceptions' to the human rights therein sanctioned, yet they can arguably be considered as human rights themselves and be equally valuable. The book therefore asks to what extent the protection of the individual could – or should – be overridden to enable the protection of the national security or public health of the general public. Both practice and case law have shown that human rights risk being set aside when they clash with the protection of national security or public health. Through theoretical analysis and practical examples, the book addresses the conflicts that arise when the concepts of national security and public health are used – and abused – and other rights, including freedom of speech, procedural freedoms, individual health, are violated as a consequence. It provides many interesting findings on the values that states are ready to protect – and forego – to ensure their safety, which can contribute to the ongoing debate on the protection of human rights. This book was originally published as a special issue of The International Journal of Human Rights. Entrepreneurship is widely embraced today in political discourse, popular culture, and economic policy prescriptions. Several groups actively promote entrepreneurial thinking and practices in higher education. This book examines how this 'Entrepreneurship Movement' impacts higher education in Canada and the United States.

Future Spacecraft Propulsion Systems and Integration
Open Science: the Very Idea

Digital Health
Geoscience for the Public Good and Global Development
Military Review

Teaching STEM in the Secondary School