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[Climate Change in South Asia](#) - Baniateilang Majaw 2020-07-17

This volume studies the challenges of climate change in South Asia and examines the role of the South Asian Association for Regional Cooperation (SAARC) in addressing them. It highlights the dangers posed by climate change in South Asia and underlines the need to strengthen and intensify regional cooperation to preserve, protect and manage the diverse and fragile eco-systems of the region. The book examines policies and initiatives of the SAARC in tackling these issues and also analyzes their implementation by member countries. Comprehensive and topical, this volume will be useful for scholars and researchers of South Asian Studies, environmental studies, climate change studies, public policy and governance, development studies, international relations, regional cooperation, and political studies. It will also be of importance to policymakers and NGOs working in this field.

**Functional Properties of Advanced Engineering Materials and Biomolecules** - Felipe A. La Porta 2021-05-17

This book shows how a small toolbox of experimental techniques, physical chemistry concepts as well as quantum/classical mechanics and statistical methods can be used to understand, explain and even predict extraordinary applications of these advanced engineering materials and biomolecules. It highlights how improving the material foresight by

design, including the fundamental understanding of their physical and chemical properties, can provide new technological levels in the future.

[Pathogenesis of Dimorphic Fungal Infections](#) - Angel Gonzalez 2022-01-06

[Blumgart's Surgery of the Liver, Biliary Tract and Pancreas, 2-Volume Set - E-Book](#) - William R. Jarnagin 2022-09-13

Balancing basic science with information on everyday clinical practice, Blumgart's Surgery of the Liver, Biliary Tract and Pancreas, 7th Edition, provides you with expert guidance and advances in the field so you can offer patients the most optimal diagnostic and surgical care. In two convenient volumes, Dr. William Jarnagin and his team of internationally recognized surgeons cover exactly what you need to know, including advances in diagnostic and surgical techniques, minimally invasive surgeries, new interventional diagnostic techniques, and all relevant diseases. This comprehensive, practical reference is designed to help you choose and perform the most appropriate procedures that will minimize inpatient hospital time, curtail costs, and reduce overall recovery time for your patients. Presents cutting-edge guidance on pathology, diagnostics, surgery and non-operative intervention of the liver, biliary tract, and pancreas in one highly regarded, authoritative reference. Covers all surgical approaches, both open and minimally invasive. Considers all

worldwide opinions and approaches to management, and includes key data on surgical outcomes to better inform clinical decision-making. Contains 161 chapters with updated references and additional figures—more than 1,500 illustrations in all. The imaging section has been reorganized to reflect a disease-based approach. Includes new and expanded sections on advances in molecular characterization of benign and malignant HPB diseases, perioperative management, interventional techniques, minimally invasive surgery and robotics, and therapeutic advances for malignant disease. Features a section dedicated entirely to operative technique, plus a new historical chapter authored by Professor Jacques Belghitti: “Hepatobiliary and Pancreatic Surgery: Historical Perspective.

**Side Effects of Drugs Annual** - 2018-10-31

Side Effects of Drugs Annual: A Worldwide Yearly Survey of New Data in Adverse Drug Reactions, Volume 40, first published in 1977, and continually published as a yearly update to the voluminous encyclopedia Meyler's Side Effects of Drugs, presents clinicians and medical investigators with a reliable and critical survey of new data and trends in the area of adverse drug reactions and interactions, with an international team of specialists contributing each year. Topics covered in this release include Central Nervous System Stimulants and Drugs that Suppress Appetite, Antidepressant drugs, Lithium, Drugs of abuse, Hypnotics and sedatives, Antipsychotic Drugs, and much more. Provides a critical yearly survey of the new data and trends regarding the side effects of drugs. Authored and reviewed by worldwide pioneers in the clinical and practice sciences. Presents an essential clinical on the side effects of drugs for practitioners and healthcare professionals alike.

*Phytochemistry of Australia's Tropical Rainforest* - Cheryll J. Williams  
2021-12

Rare, unique and irreplaceable – precious native rainforests occupy a precariously small part of Australia while retaining a remarkable level of both biological and chemical diversity unrivalled by any other ecosystem. Australia's ancient history and traditions are intimately intertwined with the rainforest plants that humans have utilised as both food and

medicine. *Phytochemistry of Australia's Tropical Rainforest* is a record of this history and details how our understanding of these plants has led to the discovery of anaesthetics, analgesics, steroids, antimalarials and more. It provides an insight into the habitat, ecology and family associations of hundreds of species and explores their future therapeutic potential, alongside phytochemical studies of the ancient plant lineages. Toxicological evaluations of important poisonous plants are also included. Rainforests provide shelter for unique flora and fauna that are counted among the rarest species on Earth, many of which are illustrated in this book. This comprehensive work is an essential reference for phytochemists, ethnobotanists and those with an interest in rainforests and their medicinal and botanical potential.

**The Fibroblast Growth Factor Signaling Pathway in Metabolic Regulation, Development, Disease and Repair After Injury** -

Zhouguang Wang 2020-11-19

This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: [frontiersin.org/about/contact](https://frontiersin.org/about/contact).

Textbook of Head and Neck Pathology - Margaret S. Brandwein-Weber  
2018-06-27

The second of a four-volume set, this book covers oral cavity and oropharynx pathology. It's goal is to become a “go-to” sign-out resource for head and neck pathology, incorporating anatomy, staging, diagnostic, and prognostic information. This richly illustrated volume has a bullet point format, where appropriate, allowing information to be easily located. This book is aimed at trainee and practicing pathologists in the USA and worldwide, and is also of interest to oral pathologists and oral pathology trainees.

**Big Data Analytics and Knowledge Discovery** - Carlos Ordonez  
2018-08-20

This book constitutes the refereed proceedings of the 20th International Conference on Big Data Analytics and Knowledge Discovery, DaWaK 2018, held in Regensburg, Germany, in September 2018. The 13 revised full papers and 17 short papers presented were carefully reviewed and selected from 76 submissions. The papers are organized in the following topical sections: Graph analytics; case studies; classification and clustering; pre-processing; sequences; cloud and database systems; and data mining.

*Printed Electronics Technologies* - Wei Wu 2022-07-20

This book describes the key printing technologies for printed electronics.

*ECAI 2020* - G. De Giacomo 2020-09-11

This book presents the proceedings of the 24th European Conference on Artificial Intelligence (ECAI 2020), held in Santiago de Compostela, Spain, from 29 August to 8 September 2020. The conference was postponed from June, and much of it conducted online due to the COVID-19 restrictions. The conference is one of the principal occasions for researchers and practitioners of AI to meet and discuss the latest trends and challenges in all fields of AI and to demonstrate innovative applications and uses of advanced AI technology. The book also includes the proceedings of the 10th Conference on Prestigious Applications of Artificial Intelligence (PAIS 2020) held at the same time. A record number of more than 1,700 submissions was received for ECAI 2020, of which 1,443 were reviewed. Of these, 361 full-papers and 36 highlight papers were accepted (an acceptance rate of 25% for full-papers and 45% for highlight papers). The book is divided into three sections: ECAI full papers; ECAI highlight papers; and PAIS papers. The topics of these papers cover all aspects of AI, including Agent-based and Multi-agent Systems; Computational Intelligence; Constraints and Satisfiability; Games and Virtual Environments; Heuristic Search; Human Aspects in AI; Information Retrieval and Filtering; Knowledge Representation and Reasoning; Machine Learning; Multidisciplinary Topics and Applications; Natural Language Processing; Planning and Scheduling; Robotics; Safe,

Explainable, and Trustworthy AI; Semantic Technologies; Uncertainty in AI; and Vision. The book will be of interest to all those whose work involves the use of AI technology.

**Nutritional and Physical Activity Strategies to Boost Immunity, Antioxidant Status and Health** - Mallikarjuna Korivi 2022-02-11

**Journalism in the Age of Virtual Reality** - John V. Pavlik 2019-09-03

With the advent of the internet and handheld or wearable media systems that plunge the user into 360o video, augmented—or virtual reality—technology is changing how stories are told and created. In this book, John V. Pavlik argues that a new form of mediated communication has emerged: experiential news. Experiential media delivers not just news stories but also news experiences, in which the consumer engages news as a participant or virtual eyewitness in immersive, multisensory, and interactive narratives. Pavlik describes and analyzes new tools and approaches that allow journalists to tell stories that go beyond text and image. He delves into developing forms such as virtual reality, haptic technologies, interactive documentaries, and drone media, presenting the principles of how to design and frame a story using these techniques. Pavlik warns that although experiential news can heighten user engagement and increase understanding, it may also fuel the transformation of fake news into artificial realities, and he discusses the standards of ethics and accuracy needed to build public trust in journalism in the age of virtual reality. Journalism in the Age of Virtual Reality offers important lessons for practitioners seeking to produce quality experiential news and those interested in the ethical considerations that experiential media raise for journalism and the public.

**Biomedical Applications of Inorganic Materials** - Gareth R Williams  
2021-12-20

This book provides a contemporary research-led overview of the applications of inorganic materials in biomedicine. It begins with a short introduction summarising key concepts in inorganic materials (layered materials, framework materials etc.), and explaining the need for new materials in medicine. It then discusses the key areas in which inorganic

materials have been applied, considering: drug delivery; imaging; diagnostics and theranostics; hard matter restoration; and vaccines. Each chapter gives an overview of the major extant challenges in the research area, before presenting a systematic review of how inorganic materials have been applied to gain traction in the field. A clear focus is maintained on the fate of the applied materials in vivo, clinical considerations, and the path to translation from lab to clinic. With contributions from leading researchers, *Biomedical Applications of Inorganic Materials* will provide a comprehensive introduction for advanced undergraduates, postgraduates and researchers wishing to learn about the topic.

**Springer Handbook of Augmented Reality** - Andrew Yeh Ching Nee  
2023-01-01

The Springer Handbook of Augmented Reality presents a comprehensive and authoritative guide to augmented reality (AR) technology, its numerous applications, and its intersection with emerging technologies. This book traces the history of AR from its early development, discussing the fundamentals of AR and its associated science. The handbook begins by presenting the development of AR over the last few years, mentioning the key pioneers and important milestones. It then moves to the fundamentals and principles of AR, such as photogrammetry, optics, motion and objects tracking, and marker-based and marker-less registration. The book discusses both software toolkits and techniques and hardware related to AR, before presenting the applications of AR. This includes both end-user applications like education and cultural heritage, and professional applications within engineering fields, medicine and architecture, amongst others. The book concludes with the convergence of AR with other emerging technologies, such as Industrial Internet of Things and Digital Twins. The handbook presents a comprehensive reference on AR technology from an academic, industrial and commercial perspective, making it an invaluable resource for audiences from a variety of backgrounds.

*Nasopharyngeal Carcinoma* - Anne W.M. Lee 2019-03-23

*Nasopharyngeal Carcinoma: From Etiology to Clinical Practice* discusses NPC from basic science, to clinical management through the perspective

of members of the Centre for Nasopharyngeal Carcinoma Research in Hong Kong. It encompasses not only the most detailed information about multiple aspects of NPC, but also the modern day research model of scientist-clinician collaboration, focusing on bench-to-bedside approach. Basic science is covered, discussing genetics and genomics in NPC and its epidemiology and the role of Epstein-Barr Virus (EBV). Translational research is also covered, presenting topics such as animal models, plasma EBV DNA, molecular imaging and immunotherapy, amongst other topics. This book is a valuable source for cancer researchers, oncologists, medical oncologists and several members of the biomedical field who are interested in learning more about NPC management from both clinical and research perspectives. Written by members of the Centre for Nasopharyngeal Carcinoma Research Extensively covers various aspects of NPC, including basic science and the clinical advances of both scientists and clinicians Discusses the molecular information gained through laboratory studies to stimulate research on new treatment strategies  
Micro-computed Tomography (micro-CT) in Medicine and Engineering - Kaan Orhan 2019-07-25

This book focuses on applications of micro CT, CBCT and CT in medicine and engineering, comprehensively explaining the basic principles of these techniques in detail, and describing their increasing use in the imaging field. It particularly highlights the scanning procedure, which represents the most crucial step in micro CT, and discusses in detail the reconstruction process and the artifacts related to the scanning processes, as well as the imaging software used in analysis. Written by international experts, the book illustrates the application of micro CT in different areas, such as dentistry, medicine, tissue engineering, aerospace engineering, geology, material engineering, civil engineering and additive manufacturing. Covering different areas of application, the book is of interest not only to specialists in the respective fields, but also to broader audience of professionals working in the fields of imaging and analysis, as well as to students of the different disciplines.

*2D-Materials for Energy Harvesting and Storage Applications* - Muhammad Ikram 2022-03-01

This authored monograph presents the state-of-the-art improvements in 2D materials, focusing on their most significant achievements, as well as recent emergence and potential applications. The book discusses synthetic protocols as well as the structural chemistry and physical properties of various 2D materials and explores their energy-related utilization. The main energy harvesting applications such as piezoelectric generators, solar cells and hydrogen evolution reactions are analyzed, while special focus is also given to the related energy storage technologies such as rechargeable batteries, supercapacitors and wearable energy storage devices. This volume sheds new light on 2D materials and their applications and will be a useful tool for graduates and academics working in the fields of materials science, materials physics and chemistry.

**Therapeutic Applications of Mesenchymal Stem Cells in Veterinary Medicine** - Mudasir Bashir Gugjoo 2022-08-05

This book reviews the potential therapeutic and reproductive applications of mesenchymal stem cells in veterinary regenerative and reproductive medicine. The systemic approach focuses on musculoskeletal structures like cartilage, bone, muscle, tendon, ligaments and nervous tissues. It also focuses on other body systems like gastrointestinal, cardiovascular, urogenital, respiratory and integumentary system. Besides, the special glands or organs like endocrine glands and eye and its adnexa are also focused. The book chapters discuss the problems and the need for regenerative medicine employing MSCs. It provides an ex vivo basis of MSCs therapeutics and reproductive potential followed by their in vivo applications. The book further provides an understanding on the behavior and mechanisms of action of mesenchymal stem cells. The book also abridges challenges and provides future prospects of mesenchymal stem cells in clinical and reproductive applications. As such, the book offers a valuable resource for students, veterinarians, and scientists working in the regenerative and reproductive sciences in human and veterinary medicine.

**The Epidemiology, Diagnosis and Prevention of Infectious Diseases in Livestock** - Satoshi Sekiguchi 2022-02-24

**Advances in Computer Graphics** - Marina Gavrilova 2019-06-11

This book constitutes the refereed proceedings of the 36th Computer Graphics International Conference, CGI 2019, held in Calgary, AB, Canada, in June 2019. The 30 revised full papers presented together with 28 short papers were carefully reviewed and selected from 231 submissions. The papers address topics such as: 3D reconstruction and rendering, virtual reality and augmented reality, computer animation, geometric modelling, geometric computing, shape and surface modelling, visual analytics, image processing, pattern recognition, motion planning, gait and activity biometric recognition, machine learning for graphics and applications in security, smart electronics, autonomous navigation systems, robotics, geographical information systems, and medicine and art.

Clean Energy and Resource Recovery - Vinay Kumar Tyagi 2021-11-10

Clean Energy and Resource Recovery: Wastewater Treatment Plants as Bio-refineries, Volume 2, summarizes the fundamentals of various treatment modes applied to the recovery of energy and value-added products from wastewater treatment plants. The book addresses the production of biofuel, heat, and electricity, chemicals, feed, and other products from municipal wastewater, industrial wastewater, and sludge. It intends to provide the readers an account of up-to-date information on the recovery of biofuels and other value-added products using conventional and advanced technological developments. The book starts with identifying the key problems of the sectors and then provides solutions to them with step-by-step guidance on the implementation of processes and procedures. Titles compiled in this book further explore related issues like the safe disposal of leftovers, from a local to global scale. Finally, the book sheds light on how wastewater treatment facilities reduce stress on energy systems, decrease air and water pollution, build resiliency, and drive local economic activity. As a compliment to Volume 1: Biomass Waste Based Biorefineries, Clean Energy and Resource Recovery, Volume 2: Wastewater Treatment Plants as Bio-refineries is a comprehensive reference on all aspects of energy and resource recovery from wastewater. The book is going to be a handy reference tool for energy researchers, environmental scientists, and civil, chemical, and

municipal engineers interested in waste-to-energy. Offers a comprehensive overview of the fundamental treatments and methods used in the recovery of energy and value-added products from wastewater. Identifies solutions to key problems related to wastewater to energy/resource recovery through conventional and advanced technologies and explore the alternatives. Provides step-by-step guidance on procedures and calculations from practical field data. Includes successful case studies from both developing and developed countries.

*Language Learning and Leisure* - Denzye Toffoli 2023-07-03

The study of informal involvement with additional languages has recently emerged as a dynamic research field in SLA. With the rapid development and spread of internet-based technologies, contact with foreign languages outside the classroom has become commonplace. While this can take multiple forms, online contents are a major driving force because they present learners with unprecedented opportunities for exposure to and use of target languages regardless of their physical location. Research from diverse geographical, educational and socio-economic contexts bring a rich variety of perspectives to this book. It explores these phenomena via a range of theoretical frameworks and methodological approaches, focusing particularly on individual differences and language development. The volume proposes that teachers in formal learning settings should seek to support and facilitate the development of these identities and practices, and it indicates means they can adopt to best do so.

**Ackley and Ladwig's Nursing Diagnosis Handbook E-Book** - Mary Beth Flynn Makic 2022-04-14

Create individualized nursing care plans with ease and confidence! Ackley and Ladwig's Nursing Diagnosis Handbook, 13th Edition uses an easy, three-step system to guide you through client assessment, nursing diagnosis, and care planning. Step-by-step instructions show how to implement care and evaluate outcomes, and help you build skills in diagnostic reasoning and critical thinking. To make care planning easier, this handbook allows you to look up nursing diagnoses and care plans for more than 1450 client symptoms, as well as interventions from NIC (Nursing Interventions Classification) and outcomes from NOC (Nursing

Outcomes Classification). Edited by noted nursing educators Mary Beth Flynn Makic and Marina Reyna Martinez-Kratz, this reference provides everything you need to write nursing care plans in just one book! Easy-to-follow Sections I and II guide you through the nursing process and selection of appropriate nursing diagnoses. Step-by-step instructions show how to use the Guide to Nursing Diagnoses and Guide to Planning Care sections to create a unique, individualized plan of care. UNIQUE! Care plans are provided for each NANDA-International© (NANDA-I©) -approved nursing diagnosis. Evolve website includes a care plan template, case studies, review questions, and more! Evidence-based interventions and rationales include research studies and references supporting the use of each intervention. Examples of and suggested NIC interventions and NOC outcomes are presented in each care plan. Quality and safety content emphasizes what must be considered to provide safe patient care, and includes QSEN content in Section I. Pediatric, geriatric, multicultural, and home care interventions are included as appropriate for plans of care. Index of NANDA-I© Diagnoses on the inside back cover of the book provides quick reference to page numbers. Alphabetical thumb tabs allow quick access to specific symptoms and nursing diagnoses. NEW! Updated content is based on the 2021-2023 NANDA-I©-approved nursing diagnoses and reflects new diagnoses, revised diagnoses, and retired diagnoses. NEW! Updated nursing diagnoses include class and domain information as consistent with the current NANDA-I.

**Early Diagnoses and Treatments of Uncommon Breast Cancers** - Veronica Vella 2022-11-21

State of the Art in Neural Networks and Their Applications - Jasjit S. Suri 2022-12-09

State of the Art in Neural Networks and Their Applications, Volume Two presents the latest advances in artificial neural networks and their applications across a wide range of clinical diagnoses. The book provides over views and case studies of advances in the role of machine learning, artificial intelligence, deep learning, cognitive image processing, and suitable data analytics useful for clinical diagnosis and research

applications. The application of neural network, artificial intelligence and machine learning methods in biomedical image analysis have resulted in the development of computer-aided diagnostic (CAD) systems that aim towards the automatic early detection of several severe diseases. State of the Art in Neural Networks and Their Applications is presented in two volumes. Volume One: Neural Networks in Oncology Imaging covers lung cancer, prostate cancer, and bladder cancer. Volume Two: Neural Networks in Brain Disorders and Other Diseases covers autism spectrum disorder, Alzheimer's disease, attention deficit hyperactivity disorder, hypertension, and other diseases. Written by experienced engineers in the field, these two volumes will help engineers, computer scientists, researchers, and clinicians understand the technology and applications of artificial neural networks. Includes applications of neural networks, AI, machine learning, and deep learning techniques to a variety of oncology imaging technologies Provides in-depth technical coverage of computer-aided diagnosis (CAD), including coverage of computer-aided classification, unified deep learning frameworks, 3D MRI, PET/CT, and more Covers deep learning cancer identification from histopathological images, medical image analysis, detection, segmentation and classification via AI

*Future Perspectives of Sentinel Node Mapping in Gynecological Oncology* - Angela Santoro 2022-11-23

*Inflammatory Immune Disease: Molecular Mechanisms, Translational Approaches and Therapeutics* - Tao Xu 2022-07-05

**Chitosan in Biomedical Applications** - Md Saquib Hasnain 2021-12-13

Chitosan in Biomedical Applications provides a thorough insight into the complete chitosan chemistry, collection, chemical modifications, characterization and applications of chitosan in biomedical applications and healthcare fields. Chitosan, a biopolymer of natural origin, has been explored for its variety of applications in biomedical research, medical diagnostic aids and material science. It is the second most abundant natural biopolymer after cellulose, and considered as an excellent

excipient because of its non-toxic, stable, biodegradable properties. Several research innovations have been made on applications of chitosan in biomedical applications. The book explores key topics, such as molecular weight, degree of deacetylation, and molecular geometry, along with an emphasis on recent advances in the field written by academic, industry, and clinical researchers. Chitosan in Biomedical Applications will be of interest to those in biomedical fields including the biomaterials and tissue engineering community investigating and developing biomaterials for biomedical applications, particularly graduate students, young faculty and others exploring chitosan-based materials. Provides methodology for the design, development and selection of chitosan in biomedical applications for particular therapeutic applications Includes illustrations demonstrating the mechanism of biological interaction of chitosan Discusses the regulatory aspects and demonstrates the clinical efficacy of chitosan

*Carbon Based Electronic Devices* - Alberto Tagliaferro 2020-02-14

For more than 50 years, silicon has dominated the electronics industry. However, this growth will come to an end, due to resources limitations. Thus, research developments need to focus to alternative materials, with higher performance and better functionality. Current research achievements have indicated that carbon is one of the promising candidates for its exploitation in the electronics industry. Whereas the physical properties of graphite and diamond have been investigated for many years, the potential for electronic applications of other allotropes of carbon (fullerenes, carbon nanotubes, carbon nanofibres, carbon films, carbon balls and beads, carbon fibers, etc), has only been appreciated relatively recently. Carbon-based materials offer a number of exciting possibilities for new applications of electronic devices, due to their unique thermal and electrical properties. However, the success of carbon-based electronics depends on the rapid progress of the fabrication, doping and manipulation techniques. In this Special Issue, we focus on both insights and advancements in carbon-based electronics. We will also cover various topics ranging from synthesis, functionalisation, and characterisation of carbon-based materials, for their use in electronic devices, including

advanced manufacturing techniques, such as 3D printing, ink-jet printing, spray-gun technique, etc.

Tumor Microenvironment - Peter P. Lee 2020-03-25

This book addresses the biological processes relevant to the immune phenotypes of cancer and their significance for immune responsiveness, based on the premise that malignant cells manipulate their surroundings through an evolutionary process that is controlled by interactions with innate immune sensors as well as the adaptive recognition of self/non-self. Checkpoint inhibitor therapy is now an accepted new form of cancer treatment. Other immuno-oncology approaches, such as adoptive cell therapy and metabolic inhibitors, have also shown promising results for specific indications. Immune resistance is common, however, limiting the efficacy of immunotherapy in many common cancer types. The reasons for such resistance are diverse and peculiar to the immune landscapes of individual cancers, and to the treatment modality used. Accordingly, approaches to circumvent resistance need to take into account context-specific genetic, biological and environmental factors that may affect the cancer immune cycle, and which can best be understood by studying the target tissue and correlated systemic immune markers. Understanding the major requirements for the evolutionary process governing human cancer growth in the immune-competent host will guide effective therapeutic choices that are tailored to the biology of individual cancers.

**Gamma Knife Neurosurgery in the Management of Intracranial Disorders II** - Mikhail F. Chernov 2021-07-24

The articles in this volume cover the various radiosurgical techniques used to treat benign and malignant intracranial tumors, cavernous malformations, and functional disorders, as well as a wide array of specific details on medical physics, neuroimaging, and anesthetic support. Particular emphasis is put on the optimal combination of microneurosurgery and radiosurgery for attaining the best functional results in patients with vestibular schwannomas, craniopharyngiomas, and pituitary adenomas, and on the most effective methods of treatment planning and radiation dosimetry in cases of metastatic brain tumors. The highlighted clinical aspects include indications for radiosurgery and the

prediction of patients' prognosis, along with analysis of outcomes in comparison with results achieved by other modalities in the context of multifaceted therapeutic strategies. In addition, possible options for applying advanced treatment using such modern devices as Leksell Gamma Knife Perfexion™ and Icon™ are presented in depth. This information will interest both radiosurgical practitioners and neurosurgeons, and help them to provide optimal care and to achieve the greatest benefit of their patients. This book will serve as an excellent companion for the previous publication "Gamma Knife Neurosurgery in the Management of Intracranial Disorders" (Acta Neurochirurgica Supplement, Volume 116, Springer, 2013).

Long-Term Care in Europe - Ulrich Becker 2018-03-05

This book provides a comprehensive overview on the long-term care systems in 12 EU member states and Norway. Focusing on the legal background and its main principles, it includes a comparative analysis which highlights the principal dissimilarities between European long term care benefits, but at the same time also a variety of features in common. It also discusses the increasingly transnational dimension of long-term as a result of migrants returning to their country of origin in old age, and the still-unsolved legal problem of entitlement to long-term care benefits in another EU-member state.

**Quality, Reliability, Security and Robustness in Heterogeneous Systems** - Xingliang Yuan 2021-11-16

This book constitutes the refereed post-conference proceedings of the 17th EAI International Conference on Quality, Reliability, Security and Robustness in Heterogeneous Networks, QShine 2021, held in November 2020. Due to COVID-19 pandemic the conference was held virtually. The 20 revised full papers were carefully reviewed and selected from 43 submissions. The papers are organized thematically in tracks Machine Learning in Distributed Networks; 5G Networks and Security; IoT Security and Lightweight Cryptography; Network Security; and Privacy-preserving Emerging Networked Applications.

**Medical Image Computing and Computer Assisted Intervention - MICCAI 2021** - Marleen de Bruijne 2021-09-22



The eight-volume set LNCS 12901, 12902, 12903, 12904, 12905, 12906, 12907, and 12908 constitutes the refereed proceedings of the 24th International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI 2021, held in Strasbourg, France, in September/October 2021.\* The 531 revised full papers presented were carefully reviewed and selected from 1630 submissions in a double-blind review process. The papers are organized in the following topical sections: Part I: image segmentation Part II: machine learning - self-supervised learning; machine learning - semi-supervised learning; and machine learning - weakly supervised learning Part III: machine learning - advances in machine learning theory; machine learning - attention models; machine learning - domain adaptation; machine learning - federated learning; machine learning - interpretability / explainability; and machine learning - uncertainty Part IV: image registration; image-guided interventions and surgery; surgical data science; surgical planning and simulation; surgical skill and work flow analysis; and surgical visualization and mixed, augmented and virtual reality Part V: computer aided diagnosis; integration of imaging with non-imaging biomarkers; and outcome/disease prediction Part VI: image reconstruction; clinical applications - cardiac; and clinical applications - vascular Part VII: clinical applications - abdomen; clinical applications - breast; clinical applications - dermatology; clinical applications - fetal imaging; clinical applications - lung; clinical applications - neuroimaging - brain development; clinical applications - neuroimaging - DWI and tractography; clinical applications - neuroimaging - functional brain networks; clinical applications - neuroimaging - others; and clinical applications - oncology Part VIII: clinical applications - ophthalmology; computational (integrative) pathology; modalities - microscopy; modalities - histopathology; and modalities - ultrasound \*The conference was held virtually.

**Medicinal Chemistry** - 2020-02-10

Medicinal Chemistry, Volume 75, the latest release in the Advances in Inorganic Chemistry series, presents timely and informative summaries on current progress in a variety of subject areas. This acclaimed serial features reviews written by experts in the field, serving as an

indispensable reference to advanced researchers that empowers readers to pursue new developments in each field. Users will find this to be a comprehensive overview of recent findings and trends from the last decade that covers various kinds of inorganic topics, from theoretical oriented supramolecular chemistry, to the quest for accurate calculations of spin states in transition metals. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Inorganic Chemistry series Includes the latest information on medicinal chemistry

*Open Source Intelligence and Cyber Crime* - Mohammad A. Tayebi  
2020-07-31

This book shows how open source intelligence can be a powerful tool for combating crime by linking local and global patterns to help understand how criminal activities are connected. Readers will encounter the latest advances in cutting-edge data mining, machine learning and predictive analytics combined with natural language processing and social network analysis to detect, disrupt, and neutralize cyber and physical threats. Chapters contain state-of-the-art social media analytics and open source intelligence research trends. This multidisciplinary volume will appeal to students, researchers, and professionals working in the fields of open source intelligence, cyber crime and social network analytics. Chapter Automated Text Analysis for Intelligence Purposes: A Psychological Operations Case Study is available open access under a Creative Commons Attribution 4.0 International License via [link.springer.com](https://link.springer.com).  
[Encyclopedia of Polymer Applications, 3 Volume Set](#) - Munmaya Mishra  
2018-12-17

Undoubtedly the applications of polymers are rapidly evolving. Technology is continually changing and quickly advancing as polymers are needed to solve a variety of day-to-day challenges leading to improvements in quality of life. The Encyclopedia of Polymer Applications presents state-of-the-art research and development on the applications of polymers. This groundbreaking work provides important overviews to help stimulate further advancements in all areas of polymers. This comprehensive multi-volume reference includes articles contributed from

a diverse and global team of renowned researchers. It offers a broad-based perspective on a multitude of topics in a variety of applications, as well as detailed research information, figures, tables, illustrations, and references. The encyclopedia provides introductions, classifications, properties, selection, types, technologies, shelf-life, recycling, testing and applications for each of the entries where applicable. It features critical content for both novices and experts including, engineers, scientists (polymer scientists, materials scientists, biomedical engineers, macromolecular chemists), researchers, and students, as well as interested readers in academia, industry, and research institutions.

**Comprehensive Biotechnology** - 2019-07-17

Comprehensive Biotechnology, Third Edition unifies, in a single source, a huge amount of information in this growing field. The book covers scientific fundamentals, along with engineering considerations and applications in industry, agriculture, medicine, the environment and socio-economics, including the related government regulatory overviews. This new edition builds on the solid basis provided by previous editions, incorporating all recent advances in the field since the second edition was published in 2011. Offers researchers a one-stop shop for information on the subject of biotechnology Provides in-depth treatment of relevant topics from recognized authorities, including the contributions of a Nobel laureate Presents the perspective of researchers in different fields, such

as biochemistry, agriculture, engineering, biomedicine and environmental science

Transanal Minimally Invasive Surgery (TAMIS) and Transanal Total Mesorectal Excision (taTME) - Sam Atallah 2019-04-23

This book captures cornerstone developments in a new body of knowledge and provides an expert resource on a “hot topic” in rectal surgery. Transanal minimally invasive surgery (TAMIS) was designed for local excision of select rectal neoplasms, however soon it became realized that the TAMIS technique could be used for applications beyond local excision, most notably for transanal total mesorectal excision (taTME). This new operative technique has revolutionized our approach to the distal rectum by allowing for improved access, especially in obese male patients with an android pelvis, and by minimizing abdominal wall access trauma. The endpoints of improved oncologic resection, as defined by mesorectal envelope completeness, negative circumferential resection margins, and negative distal margin, are assessed. This book details controversies, pitfalls, and future directions of taTME and TAMIS. Chapters are authored by those on the forefront of innovation with TAMIS and taTME, and each is considered an authority on the topic. Transanal Minimally Invasive Surgery (TAMIS) and Transanal Total Mesorectal Excision (taTME) is a must-have reference for surgeons who are performing this operation and fellows in training who want to completely understand the various nuances of TAMIS and taTME.