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# Recherche Jfr Radiologie

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Lasers in Medicine

Riemannian Geometric Statistics in Medical Image Analysis

Medical image computing and computer assisted intervention

How Artificial Intelligence Can Make Healthcare Human Again

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10th international conference ; proceedings

Birth, Life and Death of Dopaminergic Neurons in the Substantia Nigra

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A Stereotaxic Atlas of the Grey Lesser Mouse Lemur Brain (*Microcebus Murinus*)

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Encyclopedia of Neuroscience

An International Interdisciplinary Index to the Review Literature of Science, Medicine, Agriculture, Technology, and the Behavioral Sciences

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## **CLARE FRANKLIN**

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*~Laæ recherche en imagerie: notre avenir à tous* Academic Press

This 5000-page masterwork is literally the last word on the topic and will be an essential resource for many. Unique in its breadth and detail, this encyclopedia offers a comprehensive and highly readable guide to a complex and fast-expanding field. The five-volume reference work gathers more than 10,000 entries,

including in-depth essays by internationally known experts, and short keynotes explaining essential terms and phrases. In addition, expert editors contribute detailed introductory chapters to each of 43 topic fields ranging from the fundamentals of neuroscience to fascinating developments in the new, inter-disciplinary fields of Computational Neuroscience and Neurophilosophy. Some 1,000 multi-color illustrations enhance and expand the writings.  
*Lasers in Medicine* Springer Science & Business Media

The use of lasers in medical practice has dramatically increased over the years. Lasers and modern optics have largely been unexplored in medical science. This contributed work is both optimistic and cautionary in its expert evaluation of the state-of-the-art medical use of laser technology. The use of lasers to improve upon conventional practice is highlighted in the foreword by the late Dr. Leon Goldman, widely regarded as the father of laser medicine. Focused on filling a need for a "basic physics" understanding of laser-tissue interactions, Lasers in

Medicine brings together contributions from experts in various medical specialties, including ophthalmology, dermatology, and cardiovascular medicine. Each chapter addresses significant applications of laser technology and offers the author's perspective on the state-of-the-art within that specialty. The discussions convey enough basic information to enable readers to assess a laser's usefulness for a specific purpose and to understand its limitations: A clinical engineer needs to know what laser to use for tattoo removal-Chapter 1 lists laser wavelengths available and pulse characteristics for absorption in tattoo ink to thermally decompose the ink, allowing the body to remove it. An oncologist discovers cancerous tissue in the lining of a bladder-can photodynamic therapy be used to treat it, and what is the success rate? Chapter 10 details treatment and Chapter 6 tells how to find exactly where the cancer is located. A newly graduated ophthalmologist needs to know the advantages a laser can bring to his profession-Chapter 8 can provide the information he needs to know. Lasers have made many advances in medicine-

especially in ophthalmology, dermatology, and cardiology-sparking a wave of enthusiasm. Lasers in Medicine supplies sufficient fundamental knowledge in order to more appropriately assess a laser's usefulness for a specific purpose, and to not attempt to purchase or utilize a laser when it is not the best solution. *Riemannian Geometric Statistics in Medical Image Analysis* CRC Press As with the introduction of x-ray computed tomography, much of the initial development of magnetic resonance applications tended to focus on the central nervous system. The development of magnetic resonance imaging applications to other organ systems such as the chest, abdomen, pelvis and extremities has lagged somewhat behind, awaiting technical improvements, and a broader user base. The past two years have seen a marked increase in imaging applications throughout the body, most notably the musculoskeletal system. It is in this regard, that MRI of the Body is a welcome arrival as a text which describes both basic principles of magnetic resonance imaging and surveys the current status of magnetic resonance imaging applications

throughout the body. The volume is concise, focused, clinically oriented, and abundantly illustrated. In each organ system, the appropriate technical approach is discussed, the normal anatomic features are reviewed, and the range of pathologic appearances which may be encountered are described. The authors of the chapters provide a balanced overview of MR applications and describe both present limitations and future potential of magnetic resonance imaging applications in the organ system described.

*Medical image computing and computer assisted intervention* Basic Books  
 ~Laœ recherche en imagerie: notre avenir à tousJFR 2010 ; 31e journées francophones ; 58e Journées Françaises de Radiologie ; 22 - 26 octobre 2010, Paris ; [livre des résumés]The War LawyersThe United States, Israel, and Juridical WarfareOxford University Press, USA  
How Artificial Intelligence Can Make Healthcare Human Again Springer Science & Business Media

'The story of oncology is not only fascinating but also contains many accounts of dead ends, chance

discoveries, illusions, mistakes and disappointments alongside the few successes.' These words are taken from the introduction to this book. The author, professor emeritus of Medical Oncology, reviews all aspects of the problem of cancer from a historical perspective, from the oldest existing records to the latest scientific and medical advances. It will interest the many people engaged in the treatment of cancer to read how the current therapeutic methods came about, and the book may also provide inspiration for cancer researchers, and for all those directly or indirectly involved with cancer. The layman looking for background information on a particular treatment may find it useful too. The various chapters can be read independently. A glossary and a few explanatory diagrams augment the text. This book grew out of an invitation the author received to lecture on the history of oncology. During his background reading, he discovered that there was no single volume dealing with the entire history of the subject. Fortunately, however, a great deal of information could be found here and there in the literature. As he read, he was struck by the

fascinating stories behind many discoveries, and felt impelled to put them together in a single comprehensive account. The results of his labors are presented in this remarkable volume. The author, Prof. D.J.Th. (Theo) Wagener, was head of the department of Medical Oncology at the Radboud University Nijmegen Medical Centre in the Netherlands from 1982 to 2001, chairman of the Educational Committee of the European Society of Medical Oncology (ESMO), a member of the Educational Committee of the American Society of Clinical Oncology (ASCO) and a member of various international scientific working groups, mainly of the European Organization for Research and Treatment of Cancer (EORTC).

*Science Citation Index* Springer Science & Business Media

The biomaterials sector is rapidly expanding and significant advances have been made in the technology of biomedical coatings and materials, which provide a means to improve the wear of joints, change the biological interaction between implant and host and combine the properties of various materials to

improve device performance. Coatings for biomedical applications provides an extensive review of coating types and surface modifications for biomedical applications. The first part of the book explores a range of coating types and their biomedical applications. Chapters look at hydrophilic, mineral and pyrolytic carbon coatings in and ex vivo orthopaedic applications and finally at surface modification and preparation techniques. Part two presents case studies of orthopaedic and ophthalmic coatings, and biomedical applications including vascular stents, cardiopulmonary by-pass equipment and ventricular assist devices. With its clear structure and comprehensive review of research, *Coatings for biomedical applications* is a valuable resource to researchers, scientists and engineers in the biomedical industry. It will also benefit anyone studying or working within the biomedical sector, particularly those specialising in biomedical coatings. Provides an extensive review of coating types and surface modifications for biomedical applications. Chapters look at hydrophilic coatings for biomedical applications in and ex vivo, mineral

coatings for orthopaedic applications, pyrolytic carbon coating and other commonly-used biomedical coatings Presents case studies of orthopaedic and ophthalmic coatings, and biomedical applications including vascular stents, cardiopulmonary by-pass equipment and ventricular assist devices

*10th international conference ; proceedings* Springer Science & Business Media

This book provides a unique and timely multidisciplinary synthesis of our current knowledge of the anatomy, pharmacology, physiology and pathology of the substantia nigra pars compacta (SNc) dopaminergic neurons. The single chapters, written by top scientists in their fields, explore the life cycle of dopaminergic neurons from their birth to death, the cause of Parkinson's disease, the second most common and disabling condition in the elderly population. Nevertheless, the intracellular cascade of events leading to dopamine cell death is still unknown and, consequently, treatment is symptomatic rather than preventive. The mechanisms by which alterations cause neuronal death, new

therapeutic approaches and the latest evidence of a possible de novo neurogenesis in the SNc are reviewed and singled out in different chapters. This book bridges basic science and clinical practice and will prepare the reader for the next few years, which will surely be eventful in terms of the progress of dopamine research.

Birth, Life and Death of Dopaminergic Neurons in the Substantia Nigra Presses Univ. Septentrion

Over the last 20 years the world's most advanced militaries have invited a small number of military legal professionals into the heart of their targeting operations, spaces which had previously been exclusively for generals and commanders. These professionals, trained and hired to give legal advice on an array of military operations, have become known as war lawyers. The War Lawyers examines the laws of war as applied by military lawyers to aerial targeting operations carried out by the US military in Iraq and Afghanistan, and the Israel military in Gaza. Drawing on interviews with military lawyers and others, this book explains why some lawyers became integrated in the chain of

command whereby military targets are identified and attacked, whether by manned aircraft, drones, and/or ground forces, and with what results. This book shows just how important law and military lawyers have become in the conduct of contemporary warfare, and how it is understood. Jones argues that circulations of law and policy between the US and Israel have bolstered targeting practices considered legally questionable, contending that the involvement of war lawyers in targeting operations enables, legitimises, and sometimes even extends military violence.

*The History of Oncology* Peepee Publishers & Distr

This book reviews the most important traumatic injuries that occur around the knee joint, providing detailed information on mechanisms of injury, diagnosis, and treatment. A wide range of injuries are covered, including jumper's knee, meniscus tears, knee ligament injuries, knee extensor mechanism injuries, and the floating knee. Dislocations of the knee and patella are carefully considered. Osteochondral fractures and fractures of the distal femur and tibial plateau are

discussed in individual chapters that provide clear guidance on treatment. The book closes by reviewing the management of malunion and non-union about the knee. The authors are acknowledged experts in the field and have taken care to ensure that all information is completely up to date. This well-illustrated and instructive book will be of value to orthopedic surgeons, sports medicine specialists, and others who work with patients with traumatic knee injuries.

**The Radon Transform** ~Laœ recherche en imagerie: notre avenir à tousJFR 2010 ; 31e journées francophones ; 58e Journées Françaises de Radiologie ; 22 - 26 octobre 2010, Paris ; [livre des résumés]The War LawyersThe United States, Israel, and Juridical Warfare

The three-volume set LNCS 7510, 7511, and 7512 constitutes the refereed proceedings of the 15th International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI 2012, held in Nice, France, in October 2012. Based on rigorous peer reviews, the program committee carefully selected 252 revised papers from 781 submissions for presentation in three

volumes. The third volume includes 79 papers organized in topical sections on diffusion imaging: from acquisition to tractography; image acquisition, segmentation and recognition; image registration; neuroimage analysis; analysis of microscopic and optical images; image segmentation; diffusion weighted imaging; computer-aided diagnosis and planning; and microscopic image analysis.

**Obsessed by a Dream** Springer Science & Business Media

Alors que l'aide au développement reste obscure dans la plupart des esprits et qu'une grande incompréhension des buts et rouages de la coopération internationale a gagné le large public, l'ouvrage se plonge concrètement au cœur d'un projet francophone destiné à la formation des professionnels de santé et à la diffusion du numérique éducatif. Il ...

*Coatings for Biomedical Applications*

Springer Science & Business Media

The number of patients using social media and the number of applications and solutions used by medical professionals online have been sky-rocketing in the past few years, therefore the rational behind creating a well-designed, clear and tight

handbook of practical examples and case studies with simple pieces of suggestions about different social media platforms is evident. While the number of e-patients is rising, the number of web-savvy doctors who can meet the expectations of these new generations of patients is not, this huge gap can only be closed by providing medical professionals with easily implementable, useful and primarily practical pieces of advice and suggestions about how they should use these tools or at least what they should know about these, so then when an e-patient has an internet-related question, they will know how to respond properly. As all medical professionals regardless of their medical specialties will meet e-patients, this issue with growing importance will affect every medical professionals which means there is a huge need for such a easily understandable handbook.

*Social Media in Clinical Practice* Bohn

Stafleu van Loghum

This thoroughly revised and updated reference addresses the drugs and chemicals causing malformations and congenital anomalies in the human fetus-comprehensively reviewing experimental

studies in animals and clinical data on human development, primarily in the organogenesis period. Addressing current public health concerns over teratogens, *Chemically Induced Birth Defects, Third Edition* covers and condenses the 2500 new publications on developmental toxicology that appear every year. Provides comprehensive identification of teratogens by chemical, generic, and trade names. *Chemically Induced Birth Defects, Third Edition* discusses the interrelation of over 4100 chemicals in current use, still in the experimental stage, or now obsolete covers recently available drugs, such as misoprostol and fluconazole utilizes the latest Good Laboratory Practices-conducted studies to evaluate specific agents investigates up-to-the-minute impairments of maternal homeostasis that may lead to teratogenesis surveys chemicals by use, distinguishing medicinals from industrial chemicals elucidates recent research on chemicals linked to endocrine disruption and more Containing over 10,000 citations from the literature, *Chemically Induced Birth Defects, Third Edition* deserves a place on the bookshelves of all toxicologists,

teratologists, pediatricians, obstetricians, gynecologists, environmentalists, biochemists, oncologists, pharmacologists, endocrinologists, and upper-level undergraduate, graduate, and medical school students in these disciplines.

**A Stereotaxic Atlas of the Grey Lesser Mouse Lemur Brain (Microcebus Murinus)** Springer Science & Business Media

One of America's top doctors reveals how AI will empower physicians and revolutionize patient care Medicine has become inhuman, to disastrous effect. The doctor-patient relationship--the heart of medicine--is broken: doctors are too distracted and overwhelmed to truly connect with their patients, and medical errors and misdiagnoses abound. In *Deep Medicine*, leading physician Eric Topol reveals how artificial intelligence can help. AI has the potential to transform everything doctors do, from notetaking and medical scans to diagnosis and treatment, greatly cutting down the cost of medicine and reducing human mortality. By freeing physicians from the tasks that interfere with human connection, AI will create space for the

real healing that takes place between a doctor who can listen and a patient who needs to be heard. Innovative, provocative, and hopeful, *Deep Medicine* shows us how the awesome power of AI can make medicine better, for all the humans involved.

**Radiologic Anatomy of the Brain**  
Elsevier

The effective sterilisation of any material or device to be implanted in or used in close contact with the human body is essential for the elimination of harmful agents such as bacteria. Sterilisation of biomaterials and medical devices reviews established and commonly used technologies alongside new and emerging processes. Following an introduction to the key concepts and challenges involved in sterilisation, the sterilisation of biomaterials and medical devices using steam and dry heat, ionising radiation and ethylene oxide is reviewed. A range of non-traditional sterilisation techniques, such as hydrogen peroxide gas plasma, ozone and steam formaldehyde, is then discussed together with research in sterilisation and decontamination of surfaces by plasma discharges.

Sterilisation techniques for polymers, drug-device products and tissue allografts are then reviewed, together with antimicrobial coatings for 'self-sterilisation' and the challenge presented by prions and endotoxins in the sterilisation of reusable medical devices. The book concludes with a discussion of future trends in the sterilisation of biomaterials and medical devices. With its distinguished editors and expert team of international contributors, *Sterilisation of biomaterials and medical devices* is an essential reference for all materials scientists, engineers and researchers within the medical devices industry. It also provides a thorough overview for academics and clinicians working in this area. Reviews established and commonly used technologies alongside new and emerging processes. Introduces and reviews the key concepts and challenges involved in sterilisation. Discusses future trends in the sterilisation of biomaterials and medical devices.

The War Lawyers Springer Nature

Despite all recent advances, the most important progress in neuroradiology has been in our knowledge of the anatomy of

the nervous system. DANDY'S injection of ventricles and cisterns with air, SICARD'S studies of the epidural and subarachnoid space with lipiodol, MONIZ'S work on cerebral arteries and veins, and, more recently, DJINDJIAN'S and DI CHIRO'S investigations of spinal arteries, have modified, refined and expanded current knowledge of anatomy of the central nervous system. As described by LINDGREN, "the neuroradiologist dissects the region of interest with x-rays like a surgeon with a scalpel". In fact, neuroradiologic examination is nothing less than an anatomic survey in vivo, using multiple orthogonal projections. The authors of this book are convinced that frequent reference to normal anatomy is currently the most useful and rewarding means of understanding neuroradiologic problems. Arteries and veins of the brain may be considered in terms of the sulci, gyri, cisterns, ventricles, basal nuclei, and cortical centers. In this book, efforts have been made to match anatomic elements of the ventricles, cisterns, and vessels to the region being studied. The foundation of this book lies in the detailed anatomico-radiologic correlations, demonstrated by

numerous photographs of dissected specimens, radiographs of injected specimens, anatomic drawings, diagrams, and normal cerebral angiograms and encephalograms. Indeed, there is no region in the central nervous system which cannot be delineated by its relationships with arteries, veins, cisterns, and ventricles.

*Proceedings of the Royal Society of London* Springer Science & Business Media Vols. for 1964- have guides and journal lists.

*Encyclopedia of Neuroscience* Oxford University Press, USA

The first edition of this book has been out of print for some time and I have decided to follow the publisher's kind suggestion to prepare a new edition. Many examples with explicit inversion formulas and range terms have been added, and the group-theoretic viewpoint emphasized. For example, the integral geometric viewpoint of the Poisson integral for the disk leads to interesting analogies with the X-ray transform in Euclidean 3-space. To preserve the introductory flavor of the book the short and self-contained Chapter Von Schwartz' distributions has been



added. Here §5 provides proofs of the needed results about the Riesz potentials while §§3-4 develop the tools from Fourier analysis following closely the account in Hormander's books (1963] and [1983]. There is some overlap with my books (1984] and [1994b] which however rely heavily on Lie group theory. The present book is much more elementary. I am indebted to Sine Jensen for a critical reading of parts of the manuscript and to Hilgert and Schlichtkrull for concrete contributions mentioned at specific places in the text. Finally I thank Jan Wetzel and Bonnie Friedman for their patient and skillful preparation of the manuscript. *An International Interdisciplinary Index to the Review Literature of Science, Medicine, Agriculture, Technology, and the Behavioral Sciences* Oxford University Press  
Semiannual. "An international

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**The War Lawyers** Springer Nature  
This Open Access biography chronicles the life and achievements of the Norwegian engineer and physicist Rolf Widerøe. Readers who meet him in the pages of this book will wonder why he isn't better known. The first of Widerøe's many pioneering contributions in the field of accelerator physics was the betatron. He later went on to build the first radiation therapy machine, an advance that would

eventually revolutionize cancer treatment. Hospitals worldwide installed his machine, and today's modern radiation treatment equipment is based on his inventions. Widerøe's story also includes a fair share of drama, particularly during World War II when both Germans and the Allies vied for his collaboration. Widerøe held leading positions in multinational industry groups and was one of the consultants for building the world's largest nuclear laboratory, CERN, in Switzerland. He gained over 200 patents, received several honorary doctorates and a number of international awards. The author, a professional writer and maker of TV documentaries, has gained access to hitherto restricted archives in several countries, which provided a wealth of new material and insights, in particular in relation to the war years. She tells here a gripping and illuminating story.