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Kurume Medical JournalBiostatistics for Animal ScienceEuropean Journal of Pediatric SurgeryWorld Congress on Medical Physics and Biomedical Engineering September 7 - 12, 2009 Munich, GermanyMulti-Treatment Modalities of Liver TumoursMedical Image Computing and Computer-Assisted Intervention - MICCAI 2000Breast Tomosynthesis E-BookEvaluation of carcass and meat quality in ruminantsJournal of the American Medical AssociationOcular Blood FlowOfficial Program BookManagement of Cleft Lip and PalateClinical Methods in Medicine□□□□□□□□□□Minimally Invasive Cancer ManagementPferdeheilkundeWHO Laboratory Manual for the Examination of Human Semen and Sperm-Cervical Mucus InteractionThree-dimensional UltrasoundEffect of Gossypol Intake on Embryo Development and Viability in Vivo and in Vitro and on Plasma Gossypol Concentrations in Superovulated Holstein HeifersEndoscopic UltrasonographyPercutaneous Renal SurgeryCrop Variety Improvement and Its Effect on ProductivityJEEEssential SurfingEndoscopic UltrasoundResearch and Development in Breast UltrasoundFiziologicheskiĭ zhurnal SSSR imeni I.M. SechenovaMedical ImagingEndosonographieDiagnostic UltrasoundJournal of Ultrasound in MedicineSpektërGastroenterologic EndosonographyHepato-gastroenterologyCatalogus CatalogorumComputer Vision Technology in the Food and Beverage IndustriesMedical Image Computing and Computer-Assisted Intervention - MICCAI 2002Izvestiĭa natsionalnoĭ akademii nauk i iskusstv Chuvashskoĭ RespublikiJournal of the National Medical AssociationThyroid Autoimmunity

Kurume Medical Journal

Biostatistics for Animal Science

Livestock production systems will only be sustained in the long term if their products continue to meet the demand of consumers. The quality of ruminant carcasses, meat and meat products is of predominant importance in a competitive market where consumers tend to have a preconceived idea about the criteria that define meat quality such as flavour, tenderness, juiciness, smell, colour and texture. The carcass evaluation could be interesting as a precocious classification of the final quality of meat coming from each carcass. Today the quality characteristics of the meat must be different according to its utilisation (supermarket, butcher, catering, refectory, etc.) and so it is very important to choose very early the final destination of the carcass. Obviously, the carcass classification must correlate with meat quality characteristics required by final consumer. Other important factors that have to be taken into account in order to maintain a demand for ruminant meat are safety and traceability.This book reviews the historical and recent developments for carcass evaluation and grading for meat quality assessment in beef and sheep. It places special emphasis on new concepts and approaches to

define carcass and meat quality and on the use of modern technologies for composition and quality evaluation. A range of technologies are presented such as ultrasounds and colour reflectance, X-ray computerised tomography, spectral and thermal imaging, image analysis and NIRS. The use of phenotypic markers such as the plasma hormones and genetic markers to predict carcass composition and meat quality are also presented.

European Journal of Pediatric Surgery

Want to learn how to use EUS in the treatment of pancreatic cysts? Need a refresher on how to perform EUS fine needle aspiration? This is the book for you! There have been dramatic changes since endoscopic ultrasound (EUS) was first introduced 30 years ago. Advances in technology have meant that as well as being used in the diagnosis of gastrointestinal disorders, EUS is now an accepted therapeutic modality. This second edition covers these exciting changes with new chapters on the emerging field of therapeutic EUS. The book provides a technical how-to approach to learning this advanced endoscopic procedure. The authors guide you, step-by-step, through the fundamentals of EUS with instructions on: the instruments involved sedation procedures how EUS should be performed Each chapter discusses a specific aspect of EUS as it relates to a particular gastrointestinal disorder or organ system. Drawing on the vast experience of the authors, this definitive volume contains clear and practical guidance on the state of the art in EUS practice today.

World Congress on Medical Physics and Biomedical Engineering September 7 - 12, 2009 Munich, Germany

Multi-Treatment Modalities of Liver Tumours

Endosonography has taken an important place in the diagnosis & staging of gastroenterological tumors. With the increasing application of laparoscopic surgery, EUS should become even more important. This book comprises all key topics of EUS in gastroenterology, featuring a textbook part & an atlas of some 400 photographs. Each of the 20 chapters is divided into sections describing EUS findings, reporting on accuracy & problems of EUS & discussing the potential clinical applications.

Medical Image Computing and Computer-Assisted Intervention - MICCAI 2000

Endosonographie: Systematisch einarbeiten - sicher diagnostizieren! Das didaktische Konzept: Praxisnahe Einarbeitung in die Methode - Einführung in die Gerätetechnik und Gerätefunktion - klinische Entscheidungshilfen sowie Tipps und Tricks - exzellentes Bildmaterial zur Veranschaulichung des Befundspektrums seltener Befunde und Varianten Das ganze

endosonographische Spektrum - praxisnahe Darstellung der Untersuchungstechnik - Stadienbestimmung von Tumoren - endosonographisch gestützte Punktion und Drainage Auf dem neuesten Stand - alle diagnostischen und therapeutischen Möglichkeiten, z.B. Plexus-coeliacus-Blockade zur Schmerztherapie - gezielter Einsatz von Minisonden - Sonoelastographie - kontrastverstärkte Techniken.

Breast Tomosynthesis E-Book

Evaluation of carcass and meat quality in ruminants

The use of tomosynthesis in breast imaging is growing rapidly due to its superior ability to identify and characterize normal findings, benign lesions, and breast cancer, as well as its optimal performance with dense breast tissue. Providing unparalleled coverage of this breakthrough breast imaging modality, Breast Tomosynthesis explains how this new modality can lead to enhanced interpretation and better patient outcomes. This new reference is an indispensable guide for today's practitioner looking to keep abreast of the latest developments with correlative findings, practical interpretation tips, physics, and information on how tomosynthesis differs from conventional 2D FFDM mammography. Over 900 high-quality images offer visual guidance to effectively reading and interpreting this key imaging modality. Includes over 900 high-quality tomosynthesis and mammography images representing the spectrum of breast imaging. Features the latest Breast Imaging Reporting and Data System (or BI-RADS) standards updated in February 2014. Highlights practical tips to interpreting this new modality and how it differs from 2D mammography. Details how integration of tomosynthesis drastically changes lesion work-up and overall workflow in the department. "Tomo Tips" boxes offer tips and pitfalls for expert clinical guidance.

Journal of the American Medical Association

In 1956, three groups independently reported evidence that some thyroid disease appearing spontaneously in humans or experimentally induced in animals are related to autoimmune processes. The interval between these landmark discoveries and the present has witnessed a remarkable and continuing growth of both knowledge and concepts concerning the mechanisms of immune regulation, the pathogenesis of autoimmune thyroid diseases, and their clinical and laboratory manifestations. More importantly knowledge of thyroid autoimmunity has, in many respects, comprised the vanguard of an ever increasing appreciation and understanding of autoimmune diseases in general. On November 24-26 1986, an International Symposium on Thyroid Autoimmunity was held in Pisa. Its purpose was to commemorate the birth of thyroid autoimmunity as a scientific discipline, to summarize current knowledge and concepts in this area, and where possible, to

anticipate areas of opportunity for the future - hence the theme of the Symposium, Memories and Perspectives. To open the meeting, the Magnifico Rettore (Chancellor) of the University of Pisa granted special Awards to Dr. Deborah Doniach, Dr. Ivan Roitt, and Dr. Noel R. Rose, who published the first fundamental studies in the field of thyroid autoimmunity, and to Dr. Duncan G. Adams, whose discovery of the long-acting thyroid stimulator (LATS) opened the door to our current understanding of the pathogenesis of Graves' disease. During the meeting thirty plenary lectures were presented.

Ocular Blood Flow

Designed to cover techniques for analysis of data in the animal sciences, this book provides a complete source of information for students and researchers. The first part of the book provides an overview of the basic principles of statistics so the reader will be able to follow subsequent applications with familiarity and understanding, and without having to switch to another book of introductory statistics. The second half covers more complex applications and detailed procedures for analyzing designs commonly used in research in animal sciences.

Official Program Book

This second edition has been fully updated to provide undergraduates and trainees with the latest advances in clinical examination techniques and diagnosis. Divided into two sections, the first part discusses history taking, systemic symptoms and physical examination of external regions of the body such as the eyes, neck, ear and nose, scalp and skin, and breast. Section two covers systemic examination, describing techniques for investigating and diagnosing internal disorders. The new edition concludes with comprehensive appendices covering topics such as sample collection, chemical analysis of urine, and semen analysis, as well as providing various measurement scales. Key points Fully updated, new edition presenting latest advances in clinical examination techniques In depth coverage of both physical and systemic examination methods Highly illustrated with more than 1250 clinical photographs, diagrams and tables Previous edition published in 2009

Management of Cleft Lip and Palate

The fifth international Conference in Medical Image Computing and Computer Assisted Intervention (MICCAI 2002) was held in Tokyo from September 25th to 28th, 2002. This was the first time that the conference was held in Asia since its foundation in 1998. The objective of the conference is to offer clinicians and scientists the opportunity to collaboratively create and explore the new medical field. Specifically, MICCAI offers a forum for the discussion of the state of art in computer-assisted interventions, medical robotics, and image processing among experts from multi-disciplinary

professions, including but not limited to clinical doctors, computer scientists, and mechanical and biomedical engineers. The expectations of society are very high; the advancement of medicine will depend on computer and device technology in coming decades, as they did in the last decades. We received 321 manuscripts, of which 41 were chosen for oral presentation and 143 for poster presentation. Each paper has been included in these proceedings in eight-page full paper format, without any differentiation between oral and poster papers. Adherence to this full paper format, along with the increased number of manuscripts, surpassing all our expectations, has led us to issue two proceedings volumes for the first time in MICCAI's history. Keeping to a single volume by assigning fewer pages to each paper was certainly an option for us considering our budget constraints. However, we decided to increase the volume to offer authors maximum opportunity to argue the state of art in their work and to initiate constructive discussions among the MICCAI audience.

Clinical Methods in Medicine

The use of computer vision systems to control manufacturing processes and product quality has become increasingly important in food processing. Computer vision technology in the food and beverage industries reviews image acquisition and processing technologies and their applications in particular sectors of the food industry. Part one provides an introduction to computer vision in the food and beverage industries, discussing computer vision and infrared techniques for image analysis, hyperspectral and multispectral imaging, tomographic techniques and image processing. Part two goes on to consider computer vision technologies for automatic sorting, foreign body detection and removal, automated cutting and image analysis of food microstructure. Current and future applications of computer vision in specific areas of the food and beverage industries are the focus of part three. Techniques for quality control of meats are discussed alongside computer vision in the poultry, fish and bakery industries, including techniques for grain quality evaluation, and the evaluation and control of fruit, vegetable and nut quality. With its distinguished editor and international team of expert contributors, Computer vision technology in the food and beverage industries is an indispensible guide for all engineers and researchers involved in the development and use of state-of-the-art vision systems in the food industry. Discusses computer vision and infrared techniques for image analysis, hyperspectral and multispectral imaging, tomographic techniques and image processing Considers computer vision technologies for automatic sorting, foreign body detection and removal, automated cutting and image analysis of food microstructure Examines techniques for quality control and computer vision in various industries including the poultry, fish and bakery, fruit, vegetable and nut industry

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Minimally Invasive Cancer Management

Pferdeheilkunde

Adequate blood supply to the eye is an important prerequisite for normal visual function. Over the past 40 years our knowledge of ocular blood flow regulation has improved significantly. This reader-friendly textbook provides a comprehensive overview of the current knowledge of ocular blood flow. Lavishly illustrated, it evaluates the wide array of methods that have been used to measure ocular blood flow. Furthermore, it not only offers the reader an evidence-based summary of the physiological and pharmacological properties of ocular blood flow regulation, but also demonstrates the ocular blood flow abnormalities in different vascular diseases. This book will enhance the understanding of all who are interested in learning more about ocular blood flow in health and disease.

WHO Laboratory Manual for the Examination of Human Semen and Sperm-Cervical Mucus Interaction

This definitive and essential source of reference has been thoroughly up-dated and revised to meet the requirements of all laboratories involved in the analysis of human semen. The book sets out the fundamental laboratory techniques that should be employed in the diagnosis of male infertility. The text includes descriptions of how to construct a conventional semen profile and provides standardized protocols for performing several optional diagnostic procedures. Such techniques are essential in the evaluation of infertile couples and in assessing fertility in men whose sperm production is suppressed by potential anti-fertility compounds or by toxic agents: they are also of interest in forensic medicine and in connection with artificial insemination. Previous editions of this volume have established themselves as the gold standard in the area of fertility investigation and treatment: this new edition continues that tradition and will be the benchmark for setting more rigorous standards for future years.

Three-dimensional Ultrasound

Effect of Gossypol Intake on Embryo Development and Viability in Vivo and in Vitro and on Plasma Gossypol Concentrations in Superovulated Holstein Heifers

This book clearly explains how to properly handle artifacts, scan safely, and evaluate instrument performance, while also helping students prepare for registry and board examinations in diagnostic ultrasound. Essential topics in physics and

ultrasound have been updated to include the latest imaging techniques, innovations in instrumentation, and cutting-edge scanning technology. Information is presented in a dynamic, visual format, with boxes, tables, and over 1,000 illustrations. This edition contains new and expanded material on contrast agents, harmonic imaging, coded excitation, panoramic imaging, spatial compounding, 3-D imaging, and electronic storage and communication of images external to the diagnostic instruments. Reorganized, rewritten material reflects the digital beam-forming, signal-processing, and image-processing functions of modern instruments. Essential coverage of physics and ultrasound - providing students with the basics that they need New format and size - better for navigation around the text Content updated with new technology included Complicated concepts are simplified to assist the student in the basics of ultrasonography Additional pedagogy - each chapter now has learning objectives and key terms - enhances understanding Illustrations updated - over 90 new illustrations! 40 page colour insert to provide an accurate representation of what students will encounter once they get to the clinical setting Question-and-answer format at the end of each chapter - great for revision and reviewing 3 new appendices have been added.

Endoscopic Ultrasonography

Percutaneous Renal Surgery

This volume reports the findings of a study of the productivity impact of varietal improvement research conducted at a number of international centers affiliated with the Consultative Group on International Agricultural Research. Such centers have been at the forefront of the "Green Revolution" that resulted in the breeding of new crop varieties of the world's staple food crops. Econometric models are used to evaluate the investment in these cases of agricultural research and to analyze impact in selected countries.

Crop Variety Improvement and Its Effect on Productivity

Endoscopic ultrasound has revolutionized the approach to lesions inside and outside the gastrointestinal tract. It has opened the door for gastroenterologists to explore organs outside of the GI lumen, such as the lymph nodes, lung, pancreas, and liver. Endoscopic Ultrasound covers all aspects of endoscopic ultrasound, from the basics to the interventional indications. Richly detailed chapters describe the utility of EUS in different parts of the body and are organized based on body site Pioneers in the field summarize new studies, and the direction of EUS in practice. Endoscopic Ultrasound provides a ready reference that will help physicians and support staff that are beginning EUS, as well as trained ultrasonographers who wish to arm themselves with a comprehensive reference and explore the future of the field.

JEE

Essential Surfing

Endoscopic Ultrasound

Present Your Research to the World! The World Congress 2009 on Medical Physics and Biomedical Engineering – the triennial scientific meeting of the IUPESM - is the world’s leading forum for presenting the results of current scientific work in health-related physics and technologies to an international audience. With more than 2,800 presentations it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009! Medical physics, biomedical engineering and bioengineering have been driving forces of innovation and progress in medicine and healthcare over the past two decades. As new key technologies arise with significant potential to open new options in diagnostics and therapeutics, it is a multidisciplinary task to evaluate their benefit for medicine and healthcare with respect to the quality of performance and therapeutic output. Covering key aspects such as information and communication technologies, micro- and nanosystems, optics and biotechnology, the congress will serve as an inter- and multidisciplinary platform that brings together people from basic research, R&D, industry and medical application to discuss these issues. As a major event for science, medicine and technology the congress provides a comprehensive overview and in–depth, first-hand information on new developments, advanced technologies and current and future applications. With this Final Program we would like to give you an overview of the dimension of the congress and invite you to join us in Munich! Olaf Dössel Congress President Wolfgang C.

Research and Development in Breast Ultrasound

Fiziologicheskiĭ zhurnal SSSR imeni I.M. Sechenova

In previous work [6], we presented a novel information theoretic approach for calculating fMRI activation maps. The information-theoretic approach is - pealing in that it is a principled methodology requiring few assumptions about the structure of the fMRI signal. In that approach, activation was quanti'ed by measuring the mutual information (MI) between the protocol signal and the fMRI time-series at a givenvoxel.This measureis capable of detecting unknown nonlinear and higher-order statistical dependencies. Furthermore, it is relatively straightforward to implement. In practice,activation

decisions at eachvoxelareindependent of neighboring voxels. Spurious responses are then removed by ad hoc techniques (e.g. morp- logicaloperators).Inthispaper,wedescribeanautomaticmaximumaposteriori (MAP) detection method where the well-known Ising model is used as a spatial prior.The Isingspatialpriordoes not assumethat the time-seriesofneighboring voxelsareindependentofeachother.Furthermore,removalofspuriousresponses is an implicit component of the detection formulation. In order to formulate the calculation of the activation map using this technique we ?rst demonstrate that the information-theoretic approach has a natural interpretation in the hypo- esis testing framework and that, speci'cally, our estimate of MI approximates the log-likelihood ratio of that hypothesis test. Consequently, the MAP det- tion problem using the Ising model can be formulated and solved exactly in polynomial time using the Ford and Fulkerson method [4]. We compare the results of our approach with and without spatial priors to an approachbased on the general linear model (GLM) popularized by Fristonet al [3]. We present results from three fMRI data sets. The data sets test motor, auditory, and visual cortex activation, respectively.

Medical Imaging

Endosonographie

Cancer is one of the major health problems of our time and liver cancer is responsible for over one million deaths per year world-wide, making it the fourth most common cause of death from cancer. Surgical resection of the tumour(s) is the treatment of choice and offers the only chance of prolonged survival. Yet the best attempts are often frustrated by either advanced or co-existent disease that renders the patient non-resectable. This book tackles the many options available to doctors and patients in an attempt to combat this desperate disease.

Diagnostic Ultrasound

Journal of Ultrasound in Medicine

Spektër

Gastroenterologic Endosonography

As minimal access approaches to cancer diagnosis, staging, and therapy become more widely used, it is vital for general surgeons, along with laparoscopists, surgical oncologists and medical oncologists, to stay up to date. The editors, a team consisting of a renowned surgical oncologist and a laparoscopic specialist, aim to provide a resource for the practicing general surgeon using basic minimally invasive techniques. The book discusses diagnosis including biopsy with microinstrumentation, staging, and palliative and curative resection. Specific tumor sites are addressed, including esophagus, stomach, spleen, small bowel, pancreato-biliary, hepatic resection, and colo-rectal resection. Minimally invasive approaches to the thoracic and retroperitoneal areas are included. The book provides a thorough overview of basic cancer biology, instrumentation, and ultrasound. Additionally, Greene and Heniford explore controversial issues such as port-site recurrence and the effect of pneumoperitoneum on the spread of cancer cells in the abdomen. Many photographs and line drawings, including 16 in full color, illustrate the principles discussed in the text. A must-have for every practicing general surgeon, laparoscopic fellow, and general surgery resident.

Hepato-gastroenterology

Catalogus Catalogorum

Percutaneous Renal Surgery will provide surgeons and urologists/nephrologists with a well-illustrated, full-colour expert guide to performing these complex and difficult surgical procedures safely and effectively. Focus throughout is on percutaneous management of three major conditions: large renal calculi (percutaneous nephrolithotomy), transitional cell cancer (percutaneous resection of tumor) and renal cell cancer (percutaneous cryotherapy and radiofrequency ablation). For each of these conditions, leading surgeons and urologists will cover: Epidemiology of the disease Evolution of evidence-based outcomes for percutaneous management Patient selection and informed consent Instrumentation Surgical technique 10 high-quality videos of surgery in action will provide an excellent visual guide to best practice and tips/tricks while performing surgery, making this a perfect multi-media teaching tool.

Computer Vision Technology in the Food and Beverage Industries

This volume provides an understanding of the technology and clinical uses of three-dimensional ultrasound. The aim of the text is to assist radiologists in asking the right questions in choosing the ultrasound equipment to buy for their hospitals. The authors explain volume imaging and volume sonography technology and current information on acquisition and display methods, visualization, and quantitative analysis. The advantages of different types of acquisition and display are discussed to assist radiologists in comparing different types of equipment.

Medical Image Computing and Computer-Assisted Intervention - MICCAI 2002

Izvestiĭa natsionalnoĭ akademii nauk i iskusstv Chuvashskoĭ Respubliki

Journal of the National Medical Association

This book was planned in order to announce the contents discussed in the 13th International Congress on the Ultrasound Examination of the Breast. Breast ultrasound has become a indispensable method for the diagnosis of cancer of the breast. Breast ultrasound will become more convenient and precise diagnostic method according to the development of the device. In addition, application to breast screening or medical check has started, on the other hand the interventional method has also developed.

Thyroid Autoimmunity

This book the successor to Advances in the Management of Cleft Palate edited by Margaret Edwards and Tony Watson and published in 1980 but it is different enough for its publishers and editors to feel that its name should be changed. The aim of this present book is to provide an up-to-date review of all aspects of the management of clefts. There are an increased number of chapters and the contributors represent a wider range of professions associated with the care of cleft lip and palate. There are new chapters on genetics, associated conditions and syndromes. Contents: The Nature of Cleft Lip and Palate Embryology, incidence and aetiology Classification Anatomy and function Facial Growth Speech characteristics cleft condition Associated conditions and syndromes Management of the Infant and Young Child with a Cleft Lip and/or Palate Prenatal diagnosis-abnormalities of the fetal lip and palate Prenatal, perinatal and postnatal counselling The role of the paediatrician Early feeding management Presurgical orthopaedics Primary surgery and nursing care Speech development and early intervention Hearing and ENT management Management of the Older Child, Adolescent and Adult Speech assessment and therapy Assessment and surgical management of velopharyngeal function Secondary surgery of lip and nose deformities and palatal fistulae Orthodontics Alveolar bone grafting Orthognathic surgery Restorative dental treatment Growing up with a cleft: the impact on the child Role of parent support groups Choosing the best treatment for the child with a cleft