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Creating New Medical Ontologies for Image Annotation

A Case Study

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Creating New Medical Ontologies For Image Annotation A Case Study Springerbriefs In Electrical And Computer Engineering

Le Zhang,Chen Chen,Zeju Li,Greg Slabaugh

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Creating New Medical Ontologies for Image Annotation Liana Stanescu,Dumitru Dan Burdescu,Marius Brezovan,Cristian Gabriel Mihai,2011-12-16 Creating New Medical Ontologies for Image Annotation focuses on the problem of the medical images automatic annotation process which is solved in an original manner by the authors All the steps of this process are described in detail with algorithms experiments and results The original algorithms proposed by authors are compared with other efficient similar algorithms In addition the authors treat the problem of creating ontologies in an automatic way starting from Medical Subject Headings MESH They have presented some efficient and relevant annotation models and also the basics of the annotation model used by the proposed system Cross Media Relevance Models Based on a text query the system will retrieve the images that contain objects described by the keywords **Semantic and Flexible Query Processing of Medical Images Using Ontologies** Yahia Chabane,2016 Querying efficiently images using an image retrieval system is a long standing and challenging research problem In the medical domain images are increasingly produced in large quantities due their increasing interests for many medical practices such as diagnosis report writing and teaching This thesis proposes a semantic based gastroenterological images annotation and retrieval system based on a new polyp ontology that can be used to support physicians to decide how to deal with a polyp The proposed solution uses a polyp ontology and rests on an adaptation of standard reasonings in description logic to enable semi automatic construction of queries and image annotation A second contribution of this work lies in the proposition of a new approach for computing relaxed answers of ontological queries based on a notion of an edit distance of a given individual w r t a given query Such a distance is computed by counting the number of elementary operations needed to be applied to an ABox in order to make a given individual a correct answer to a given query The considered elementary operations are adding to or removing from an ABox assertions on atomic concept a negation of an atomic concept or an atomic role The thesis proposes several formal semantics for such query approximation and investigates the underlying decision and optimisation problems

Interpretable and Annotation-Efficient Learning for Medical Image Computing Jaime Cardoso,Hien Van Nguyen,Nicholas Heller,Pedro Henriques Abreu,Ivana Isgum,Wilson Silva,Ricardo Cruz,Jose Pereira Amorim,Vishal Patel,Badri Roysam,Kevin Zhou,Steve Jiang,Ngan Le,Khoa Luu,Raphael Sznitman,Veronika Cheplygina,Diana Mateus,Emanuele Trucco,Samaneh Abbasi,2020-10-03 This book constitutes the refereed joint proceedings of the Third International Workshop on Interpretability of Machine Intelligence in Medical Image Computing iMIMIC 2020 the Second International Workshop on Medical Image Learning with Less Labels and Imperfect Data MIL3ID 2020 and the 5th International Workshop on Large scale Annotation of Biomedical data and Expert Label Synthesis LABELS 2020 held in conjunction with the 23rd International Conference on Medical Imaging and Computer Assisted Intervention MICCAI 2020 in

Lima Peru in October 2020 The 8 full papers presented at iMIMIC 2020 11 full papers to MIL3ID 2020 and the 10 full papers presented at LABELS 2020 were carefully reviewed and selected from 16 submissions to iMIMIC 28 to MIL3ID and 12 submissions to LABELS The iMIMIC papers focus on introducing the challenges and opportunities related to the topic of interpretability of machine learning systems in the context of medical imaging and computer assisted intervention MIL3ID deals with best practices in medical image learning with label scarcity and data imperfection The LABELS papers present a variety of approaches for dealing with a limited number of labels from semi supervised learning to crowdsourcing

Cloud-Based Benchmarking of Medical Image Analysis Allan Hanbury,Henning Müller,Georg Langs,2017-05-16 This book is open access under a CC BY NC 2 5 license This book presents the VISCERAL project benchmarks for analysis and retrieval of 3D medical images CT and MRI on a large scale which used an innovative cloud based evaluation approach where the image data were stored centrally on a cloud infrastructure and participants placed their programs in virtual machines on the cloud The book presents the points of view of both the organizers of the VISCERAL benchmarks and the participants The book is divided into five parts Part I presents the cloud based benchmarking and Evaluation as a Service paradigm that the VISCERAL benchmarks used Part II focuses on the datasets of medical images annotated with ground truth created in VISCERAL that continue to be available for research It also covers the practical aspects of obtaining permission to use medical data and manually annotating 3D medical images efficiently and effectively The VISCERAL benchmarks are described in Part III including a presentation and analysis of metrics used in evaluation of medical image analysis and search Lastly Parts IV and V present reports by some of the participants in the VISCERAL benchmarks with Part IV devoted to the anatomy benchmarks and Part V to the retrieval benchmark This book has two main audiences the datasets as well as the segmentation and retrieval results are of most interest to medical imaging researchers while eScience and computational science experts benefit from the insights into using the Evaluation as a Service paradigm for evaluation and benchmarking on huge amounts of data **Integration of Expert Knowledge Into Computer-controlled Image Databases in the Medical Domain** Henry C. Chueh,1989 *Computational Vision and Medical Image Processing* Joao Tavares,R. M. Natal Jorge,2010-11-22 This book contains extended versions of papers presented at the international Conference VIPIMAGE 2009 ECCOMAS Thematic Conference on Computational Vision and Medical Image that was held at Faculdade de Engenharia da Universidade do Porto Portugal from 14th to 16th of October 2009 This conference was the second ECCOMAS thematic conference on computational vision and medical image processing It covered topics related to image processing and analysis medical imaging and computational modelling and simulation considering their multidisciplinary nature The book collects the state of the art research methods and new trends on the subject of computational vision and medical image processing contributing to the development of these knowledge areas

Large-Scale Annotation of Biomedical Data and Expert Label Synthesis and Hardware Aware Learning for

Medical Imaging and Computer Assisted Intervention Luping Zhou,Nicholas Heller,Yiyu Shi,Yiming Xiao,Raphael Sznitman,Veronika Cheplygina,Diana Mateus,Emanuele Trucco,X. Sharon Hu,Danny Chen,Matthieu Chabanas,Hassan Rivaz,Ingerid Reinertsen,2019-11-20 This book constitutes the refereed joint proceedings of the 4th International Workshop on Large Scale Annotation of Biomedical Data and Expert Label Synthesis LABELS 2019 the First International Workshop on Hardware Aware Learning for Medical Imaging and Computer Assisted Intervention HAL MICCAI 2019 and the Second International Workshop on Correction of Brainshift with Intra Operative Ultrasound CuRIOUS 2019 held in conjunction with the 22nd International Conference on Medical Imaging and Computer Assisted Intervention MICCAI 2019 in Shenzhen China in October 2019 The 8 papers presented at LABELS 2019 the 5 papers presented at HAL MICCAI 2019 and the 3 papers presented at CuRIOUS 2019 were carefully reviewed and selected from numerous submissions The LABELS papers present a variety of approaches for dealing with a limited number of labels from semi supervised learning to crowdsourcing The HAL MICCAI papers cover a wide set of hardware applications in medical problems including medical image segmentation electron tomography pneumonia detection etc The CuRIOUS papers provide a snapshot of the current progress in the field through extended discussions and provide researchers an opportunity to characterize their image registration methods on newly released standardized datasets of iUS guided brain tumor resection Advances in Deep Learning for Medical Image Analysis Archana Mire,Vinayak Elangovan,Shailaja Patil,2022-04-26 This reference text introduces the classical probabilistic model deep learning and big data techniques for improving medical imaging and detecting various diseases The text addresses a wide variety of application areas in medical imaging where deep learning techniques provide solutions with lesser human intervention and reduced time It comprehensively covers important machine learning for signal analysis deep learning techniques for cancer detection diabetic cases skin image analysis Alzheimer s disease detection coronary disease detection medical image forensic fetal anomaly detection and plant phytology The text will serve as a useful text for graduate students and academic researchers in the fields of electronics engineering computer science biomedical engineering and electrical engineering *Biomedical Image Understanding* Joo-Hwee Lim,Sim-Heng Ong,Wei Xiong,2015-02-16 A comprehensive guide to understanding and interpreting digital images in medical and functional applications Biomedical Image Understanding focuses on image understanding and semantic interpretation with clear introductions to related concepts in depth theoretical analysis and detailed descriptions of important biomedical applications It covers image processing image filtering enhancement de noising restoration and reconstruction image segmentation and feature extraction registration clustering pattern classification and data fusion With contributions from experts in China France Italy Japan Singapore the United Kingdom and the United States Biomedical Image Understanding Addresses motion tracking and knowledge based systems two areas which are not covered extensively elsewhere in a biomedical context Describes important clinical applications such as virtual colonoscopy ocular disease diagnosis and liver tumor detection Contains twelve

self contained chapters each with an introduction to basic concepts principles and methods and a case study or application With over 150 diagrams and illustrations this bookis an essential resource for the reader interested in rapidly advancing research and applications in biomedical image understanding **Generative Machine Learning Models in Medical Image Computing** Le Zhang,Chen Chen,Zeju Li,Greg Slabaugh,2025-03-12 Generative Machine Learning Models in Medical Image Computing provides a comprehensive exploration of generative modeling techniques tailored to the unique demands of medical imaging This book presents an in depth overview of cutting edge generative models such as GANs VAEs and diffusion models examining how they enable groundbreaking applications in medical image synthesis reconstruction and enhancement Covering diverse imaging modalities like MRI CT and ultrasound it illustrates how these models facilitate improvements in image quality support data augmentation for scarce datasets and create new avenues for predictive diagnostics Beyond technical details the book addresses critical challenges in deploying generative models for healthcare including ethical concerns interpretability and clinical validation With a strong focus on real world applications it includes case studies and implementation guidelines guiding readers in translating theory into practice By addressing model robustness reproducibility and clinical utility this book is an essential resource for researchers clinicians and data scientists seeking to leverage generative models to enhance biomedical imaging and deliver impactful healthcare solutions Combining technical rigor with practical insights it offers a roadmap for integrating advanced generative approaches in the field of medical image computing **Medical Image Reconstruction** Gengsheng Lawrence Zeng,2023-07-04 This textbook introduces the essential concepts of tomography in the field of medical imaging The medical imaging modalities include x ray CT computed tomography PET positron emission tomography SPECT single photon emission tomography and MRI In these modalities the measurements are not in the image domain and the conversion from the measurements to the images is referred to as the image reconstruction The work covers various image reconstruction methods ranging from the classic analytical inversion methods to the optimization based iterative image reconstruction methods As machine learning methods have lately exhibited astonishing potentials in various areas including medical imaging the author devotes one chapter to applications of machine learning in image reconstruction Based on college level in mathematics physics and engineering the textbook supports students in understanding the concepts It is an essential reference for graduate students and engineers with electrical engineering and biomedical background due to its didactical structure and the balanced combination of methodologies and applications **AI for Medical Image Analysis** Najib Ben Aoun,Sadique Ahmad,Mohamed Hammad,2026-01-06 The way doctors identify treat and manage illnesses has been completely transformed by the introduction of artificial intelligence AI into healthcare The application of image processing and computer vision technologies is one of the most impactful advancements which has boosted the accuracy and effectiveness of medical image analysis enhanced treatment planning and enabled more personalized care With the use of these technologies healthcare

professionals may now see beyond the limits of conventional imaging techniques gaining deeper understanding and more thorough analyses both essential for efficient patient care However applying AI techniques for medical image analysis has to be conducted while upholding the ethical considerations to ensure the technology benefits patients and healthcare providers while minimizing potential risks In fact it is essential to establish a thorough framework that incorporates stringent validation on diverse and representative datasets to mitigate bias and guarantee accuracy across different populations AI systems must exhibit transparency and explainability enabling healthcare professionals to comprehend and trust their outputs while accountability measures distinctly delineate responsibility for AI generated judgments In addition AI systems have to support not replace the clinicians guaranteeing that they continue to play a crucial role in decision making The development and deployment of AI based medica image analysis systems have to be guided by ethical oversight committees to address any emerging issues This book AI for Medical Image Analysis reconciling Innovation and ethical considerations delves into the use of AI in medical image analysis while adhering to ethical considerations It will cover the technological advancements applications strategies and ethical considerations around the use of AI in healthcare imaging It presents a holistic perspective on how AI driven computer vision and image processing are reshaping the healthcare landscape and expanding the realm of what is conceivable for medical diagnostics and treatment This book will endif Highlight the efficiency of AI for the medical image analysis and tumor segmentation including machine learning and deep learning models endif Include case studies across many areas of AI in medical imaging data endif Investigate the ethical regulatory and social considerations of AI in medical image analysis Present the current challenges and futures research directions Modern Computational Intelligence Methods for the Interpretation of Medical Images Ryszard Tadeusiewicz,2014-11-02 This work by two accomplished Polish researchers provides medical technicians and researchers alike with detailed descriptions of up to date methods used for computer processing and interpretation of medical images The broad scope of the book takes in images acquisition storing with compression processing analysis recognition and also its automatic understanding The introduction provides a general overview of the computer vision methods designed for medical images *Proceedings - International Symposium on Medical Images and Icons* IEEE Computer Society International Symposium on Medical Images and Icons,

Shape Analysis in Medical Image Analysis Shuo Li,João Manuel R. S. Tavares,2016-08-27 This book contains thirteen contributions from invited experts of international recognition addressing important issues in shape analysis in medical image analysis including techniques for image segmentation registration modelling and classification and applications in biology as well as in cardiac brain spine chest lung and clinical practice This volume treats topics such as for example anatomic and functional shape representation and matching shape based medical image segmentation shape registration statistical shape analysis shape deformation shape based abnormity detection shape tracking and longitudinal shape analysis machine learning for shape modeling and analysis shape based computer aided diagnosis shape based medical navigation

benchmark and validation of shape representation analysis and modeling algorithms This work will be of interest to researchers students and manufacturers in the fields of artificial intelligence bioengineering biomechanics computational mechanics computational vision computer sciences human motion mathematics medical imaging medicine pattern recognition and physics **Computer Vision Approaches to Medical Image Analysis** ,2006 **Big Data in Medical Image Processing** R. Suganya,A. Sheik Abdullah,2018 The field of medical imaging seen rapid development over the last two decades and has consequently revolutionized the way in which modern medicine is practiced Diseases and their symptoms are constantly changing therefore continuous updating is necessary for the data to be relevant Diseases fall into different categories even a small difference in symptoms may result in categorising it in a different group altogether Thus analysing data accurately is of critical importance This book concentrates on diagnosing diseases like cancer or tumor from different modalities of images This book is divided into the following domains Importance of big data in medical imaging pre processing image registration feature extraction classification and retrieval It is further supplemented by the medical analyst for a continuous treatment process The book provides an automated system that could retrieve images based on user s interest to a point of providing decision support It will help medical analysts to take informed decisions before planning treatment and surgery It will also be useful to researchers who are working in problems involved in medical imaging

Supporting Engineering Design of Additively Manufactured Medical Devices with Knowledge Management Through Ontologies Thomas Hagedorn,2018 Medical environments pose a substantial challenge for engineering designers They combine significant knowledge demands with large investment for new product development and severe consequences in the case of design failure Engineering designers must contend with an often chaotic environment to which they have limited access and familiarity a user base that is difficult to engage and highly diverse in many attributes and a market structure that often pits stakeholders against one another As medical care in general moves towards personalized models and surgical tools towards less invasive options emerging manufacturing technologies in additive manufacturing offer significant potential for the design of highly innovative medical devices At the same time however these same technologies also introduce yet more challenges to the design process This dissertation presents a knowledge based approach to addressing the existing and emerging challenges of medical device design The approach aims to address these challenges using knowledge captured in a suite of modular ontologies modeling knowledge domains that must be considered in medical device design These include ontologies for understanding clinical context human factors regulation enterprise and manufacturability Together these ontologies support design ideation knowledge capture and design verification These ontologies are subsequently used to formulate a comprehensive knowledge framework for medical device design and to enable an innovative design process Case studies analyzing the design of surgical tools in several medical specialties are used to assess the capabilities of this approach **Large-scale Medical Image Annotation with Quality-controlled**

Crowdsourcing Eric Heim,2018 Medical Image Segmentation Using Cellular Automata: a Gpu Case Study for the Efficient Implementation of a Denoising Algorithm and Seeded Speculation MANUEL A. SANCHEZ,2014

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