Computer Vision& Pattern Recognition Group

(Research and applications)

 Graph theory: creating new shape descriptors and shape analysis methods, graph embedding, manifold learning; complex networks; graph matching and characterisation,...

Graph Representations from images

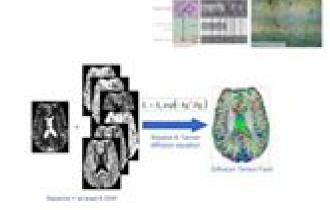


 Face recognition; shape modelling; shape from shading, shape from motion,





Shape analysis for diffusion MR images





Eduardo Bayro-Corrochano

Advanced Biometrics with Deep Learning Andrew Teoh Beng Jin ,Lu Leng,2020-12-28 Biometrics such as fingerprint iris face hand print hand vein speech and gait recognition etc as a means of identity management have become commonplace nowadays for various applications Biometric systems follow a typical pipeline that is composed of separate preprocessing feature extraction and classification Deep learning as a data driven representation learning approach has been shown to be a promising alternative to conventional data agnostic and handcrafted pre processing and feature extraction for biometric systems Furthermore deep learning offers an end to end learning paradigm to unify preprocessing feature extraction and recognition based solely on biometric data This Special Issue has collected 12 high quality state of the art research papers that deal with challenging issues in advanced biometric systems based on deep learning The 12 papers can be divided into 4 categories according to biometric modality namely face biometrics medical electronic signals EEG and ECG voice print and others Computer Vision - ECCV 2016 Bastian Leibe, Jiri Matas, Nicu Sebe, Max Welling, 2016-09-15 The eight volume set comprising LNCS volumes 9905 9912 constitutes the refereed proceedings of the 14th European Conference on Computer Vision ECCV 2016 held in Amsterdam The Netherlands in October 2016 The 415 revised papers presented were carefully reviewed and selected from 1480 submissions The papers cover all aspects of computer vision and pattern recognition such as 3D computer vision computational photography sensing and display face and gesture low level vision and image processing motion and tracking optimization methods physics based vision photometry and shape from X recognition detection categorization indexing matching segmentation grouping and shape representation statistical methods and learning video events activities and surveillance applications. They are organized in topical sections on detection recognition and retrieval scene understanding optimization image and video processing learning action activity and tracking 3D and 9 poster sessions Developments and Applications in SmartRail, Traffic, and Transportation Engineering Limin Jia, Said Easa, Yong Qin, 2024-08-13 This book is a collection of original peer reviewed contributions from the 2023 International Conference on SmartRail Traffic and Transportation Engineering jointly organized by Beijing Jiaotong University China Electrotechnical Society Chinese Institute of Electronics and Central South University It was held on July 28 30 2023 in Changsha China Topics covered includes SmartRail systems autonomous vehicles energy efficiency sustainable transportation big data in transportation and machine learning Speakers discussed innovative technologies and strategies to improve the efficiency reliability and safety of rail networks while exploring the opportunities and challenges of integrating autonomous vehicles into existing transportation networks It provides valuable insights into the latest developments and trends in transportation engineering and technology with a focus on electrification and sustainable transportation It serves as a valuable resource for professionals researchers and students working in the field Recent Advances in Intelligent Image Search and Video Retrieval Chengiun Liu, 2017-04-18 This book initially reviews the major feature representation and

extraction methods and effective learning and recognition approaches which have broad applications in the context of intelligent image search and video retrieval It subsequently presents novel methods such as improved soft assignment coding Inheritable Color Space InCS and the Generalized InCS framework the sparse kernel manifold learner method the efficient Support Vector Machine eSVM and the Scale Invariant Feature Transform SIFT features in multiple color spaces Lastly the book presents clothing analysis for subject identification and retrieval and performance evaluation methods of video analytics for traffic monitoring Digital images and videos are proliferating at an amazing speed in the fields of science engineering and technology media and entertainment With the huge accumulation of such data keyword searches and manual annotation schemes may no longer be able to meet the practical demand for retrieving relevant content from images and videos a challenge this book addresses This book initially reviews the major feature representation and extraction methods and effective learning and recognition approaches which have broad applications in the context of intelligent image search and video retrieval It subsequently presents novel methods such as improved soft assignment coding Inheritable Color Space InCS and the Generalized InCS framework the sparse kernel manifold learner method the efficient Support Vector Machine eSVM and the Scale Invariant Feature Transform SIFT features in multiple color spaces Lastly the book presents clothing analysis for subject identification and retrieval and performance evaluation methods of video analytics for traffic monitoring Digital images and videos are proliferating at an amazing speed in the fields of science engineering and technology media and entertainment With the huge accumulation of such data keyword searches and manual annotation schemes may no longer be able to meet the practical demand for retrieving relevant content from images and videos a challenge this book addresses Proceedings of the Global AI Congress 2019 Jyotsna Kumar Mandal, Somnath Mukhopadhyay, 2020-04-02 This book gathers high quality research papers presented at the Global AI Congress 2019 which was organized by the Institute of Engineering and Management Kolkata India on 12 14 September 2019 Sharing contributions prepared by researchers practitioners developers and experts in the areas of artificial intelligence the book covers the areas of AI for E commerce and web applications AI and sensors augmented reality big data brain computing interfaces computer vision cognitive radio networks data mining deep learning expert systems fuzzy sets and systems image processing knowledge representation nature inspired computing quantum machine learning reasoning robotics and autonomous systems robotics and the IoT social network analysis speech processing video processing and virtual reality Multimodal Scene Understanding Michael Ying Yang, Bodo Rosenhahn, Vittorio Murino, 2019-07-16 Multimodal Scene Understanding Algorithms Applications and Deep Learning presents recent advances in multi modal computing with a focus on computer vision and photogrammetry It provides the latest algorithms and applications that involve combining multiple sources of information and describes the role and approaches of multi sensory data and multi modal deep learning The book is ideal for researchers from the fields of computer vision remote sensing robotics and photogrammetry thus helping foster interdisciplinary interaction and

collaboration between these realms Researchers collecting and analyzing multi sensory data collections for example KITTI benchmark stereo laser from different platforms such as autonomous vehicles surveillance cameras UAVs planes and satellites will find this book to be very useful Contains state of the art developments on multi modal computing Shines a focus on algorithms and applications Presents novel deep learning topics on multi sensor fusion and multi modal deep learning

Attacks on Artificial Intelligence Kukatlapalli Pradeep Kumar, Boppuru Rudra Prathap, Vinay Jha Pillai, Prasenjit Chatterjee, 2025-09-23 Cyber attacks both on national infrastructures and private companies have ramped up exponentially in recent years AI tools and algorithms can help detect and fend off cyber threats but they can also be used by hackers in their cyber attacks Defensive measures to address cyber attacks are not sufficient for artificial intelligence based architectures which present a new range of challenges This new volume takes these concerns into consideration and examines recent developments and issues in attacks that target AI based systems and cyber infrastructures while also presenting research on using AI technologies to prevent attacks Advanced Sensing in Image Processing and IoT Rashmi Gupta, Arun Kumar Rana, Sachin Dhawan, Korhan Cengiz, 2022-03-27 The book provides future research directions in IoT and image processing based Energy Industry and Healthcare domain and explores the different applications of its associated technologies However the Internet of Things and image processing is a very big field with a lot of subfields which are very important such as Smart Homes to improve our daily life Smart Cities to improve the citizens life Smart Towns to recover the livability and traditions Smart Earth to protect our world and Industrial Internet of Things to create safer and easier jobs This book considers very important research areas in Energy Industry and Healthcare domain with IoT and image processing applications The aim of the book to highlights future directions of optimization methods in various engineering and science applications in various IoT and image processing applications Emphasis is given to deep learning and similar models of neural network based learning techniques employed in solving optimization problems of different engineering and science applications. The role of AI in mechatronics is also highlighted using suitable optimization methods. This book considers very important research areas in Energy Industry and Healthcare It addresses major issues and challenges in Energy Industry and Healthcare and solutions proposed for IoT enabled cellular computer networks routing communication protocols surveillances applications secured data management and positioning approaches It focuses mainly on smart and context aware implementations Key sailing Features The impact of the proposed book is to provide a major area of concern to develop a foundation for the implementation process of new image processing and IoT devices based on Energy Industry and Healthcare related technology The researchers working on image processing and IoT devices can correlate their work with other requirements of advanced technology in Energy Industry and Healthcare domain To make aware of the latest technology like AI and Machine learning in Energy Industry and Healthcare related technology Useful for the researcher to explore new things like Security cryptography and privacy in Energy Industry and Healthcare related technology People who want to start in Energy

Industry and Healthcare related technology with image processing and IoT world Machine Learning and Knowledge Discovery in Databases Michelangelo Ceci, Jaakko Hollmén, Ljupčo Todorovski, Celine Vens, Sašo Džeroski, 2017-12-29 The three volume proceedings LNAI 10534 10536 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2017 held in Skopje Macedonia in September 2017 The total of 101 regular papers presented in part I and part II was carefully reviewed and selected from 364 submissions there are 47 papers in the applied data science nectar and demo track The contributions were organized in topical sections named as follows Part I anomaly detection computer vision ensembles and meta learning feature selection and extraction kernel methods learning and optimization matrix and tensor factorization networks and graphs neural networks and deep learning Part II pattern and sequence mining privacy and security probabilistic models and methods recommendation regression reinforcement learning subgroup discovery time series and streams transfer and multi task learning unsupervised and semisupervised learning Part III applied data science track nectar track and demo track Person Re-Identification Shaogang Gong, Marco Cristani, Shuicheng Yan, Chen Change Loy, 2014-01-03 The first book of its kind dedicated to the challenge of person re identification this text provides an in depth multidisciplinary discussion of recent developments and state of the art methods Features introduces examples of robust feature representations reviews salient feature weighting and selection mechanisms and examines the benefits of semantic attributes describes how to segregate meaningful body parts from background clutter examines the use of 3D depth images and contextual constraints derived from the visual appearance of a group reviews approaches to feature transfer function and distance metric learning and discusses potential solutions to issues of data scalability and identity inference investigates the limitations of existing benchmark datasets presents strategies for camera topology inference and describes techniques for improving post rank search efficiency explores the design rationale and implementation considerations of building a practical re identification system Human **Re-Identification** Ziyan Wu, 2016-09-08 This book covers aspects of human re identification problems related to computer vision and machine learning Working from a practical perspective it introduces novel algorithms and designs for human re identification that bridge the gap between research and reality The primary focus is on building a robust reliable distributed and scalable smart surveillance system that can be deployed in real world scenarios This book also includes detailed discussions on pedestrian candidates detection discriminative feature extraction and selection dimension reduction distance metric learning and decision ranking enhancement This book is intended for professionals and researchers working in computer vision and machine learning Advanced level students of computer science will also find the content valuable

Person Re-Identification with Limited Supervision Rameswar Panda, Amit K. Roy-Chowdhury, 2022-06-01 Person re identification is the problem of associating observations of targets in different non overlapping cameras Most of the existing learning based methods have resulted in improved performance on standard re identification benchmarks but at the cost of

time consuming and tediously labeled data Motivated by this learning person re identification models with limited to no supervision has drawn a great deal of attention in recent years In this book we provide an overview of some of the literature in person re identification and then move on to focus on some specific problems in the context of person re identification with limited supervision in multi camera environments We expect this to lead to interesting problems for researchers to consider in the future beyond the conventional fully supervised setup that has been the framework for a lot of work in person re identification Chapter 1 starts with an overview of the problems in person re identification and the major research directions We provide an overview of the prior works that align most closely with the limited supervision theme of this book Chapter 2 demonstrates how global camera network constraints in the form of consistency can be utilized for improving the accuracy of camera pair wise person re identification models and also selecting a minimal subset of image pairs for labeling without compromising accuracy Chapter 3 presents two methods that hold the potential for developing highly scalable systems for video person re identification with limited supervision In the one shot setting where only one tracklet per identity is labeled the objective is to utilize this small labeled set along with a larger unlabeled set of tracklets to obtain a re identification model Another setting is completely unsupervised without requiring any identity labels. The temporal consistency in the videos allows us to infer about matching objects across the cameras with higher confidence even withlimited to no supervision Chapter 4 investigates person re identification in dynamic camera networks Specifically we consider a novel problem that has received very little attention in the community but is critically important for many applications where a new camera is added to an existing group observing a set of targets We propose two possible solutions for on boarding new camera's dynamically to an existing network using transfer learning with limited additional supervision Finally Chapter 5 concludes the book by highlighting the major directions for future research Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications Eduardo Bayro-Corrochano, Edwin Hancock, 2014-11-19 Learning-Based Face Analytics Nalini K Ratha, Vishal M. Patel, Rama Chellappa, 2021-08-16 This book provides an overview of different deep learning based methods for face recognition and related problems Specifically the authors present methods based on autoencoders restricted Boltzmann machines and deep convolutional neural networks for face detection localization tracking recognition etc The authors also discuss merits and drawbacks of available approaches and identifies promising avenues of research in this rapidly evolving field Even though there have been a number of different approaches proposed in the literature for face recognition based on deep learning methods there is not a single book available in the literature that gives a complete overview of these methods The proposed book captures the state of the art in face recognition using various deep learning methods and it covers a variety of different topics related to face recognition. This book is aimed at graduate students studying electrical engineering and or computer science Biometrics is a course that is widely offered at both undergraduate and graduate levels at many institutions around the world This book can be used as a textbook for teaching

topics related to face recognition In addition the work is beneficial to practitioners in industry who are working on biometrics related problems The prerequisites for optimal use are the basic knowledge of pattern recognition machine learning probability theory and linear algebra Advances in Pattern Recognition and Computer Vision, 2014 Machine Learning for Person Re-Identification Hongyang Gu, Yao Ding, Xiaogang Yang, Ruitao Lu, Lei Pu, Siming Han, 2025-11-29 This book delves into the cutting edge field of person re identification ReID a critical area within deep learning and computer vision Addressing key challenges in current ReID models it presents novel research combining automated machine learning AutoML techniques across three core aspects data augmentation network architecture and loss functions Readers will discover five innovative methods designed to overcome specific limitations in existing ReID systems These include automated erasing data augmentation for more effective erased regions two distinct AutoML approaches for optimizing multi scale features in both single branch and multi branch architectures and dynamic and static search methods for refining margin based Softmax losses The book s strength lies in its detailed exposition of search algorithms regularization techniques and reinforcement learning applications all contributing to highly efficient and performant ReID solutions The primary value of this book for readers lies in its comprehensive overview of advanced AutoML strategies tailored for ReID offering practical insights into developing more robust and accurate models It provides a structured exploration of complex concepts empowering researchers and practitioners to push the boundaries of their own work This book is an essential resource for researchers graduate students and engineers in computer vision machine learning and artificial intelligence particularly those focused on person re identification and automated deep learning Recognition in Unconstrained Environments Maria De Marsico, Michele Nappi, Hugo Pedro Proença, 2017-01-09 Human Recognition in Unconstrained Environments provides a unique picture of the complete in the wild biometric recognition processing chain from data acquisition through to detection segmentation encoding and matching reactions against security incidents Coverage includes Data hardware architecture fundamentals Background subtraction of humans in outdoor scenes Camera synchronization Biometric traits Real time detection and data segmentation Biometric traits Feature encoding matching Fusion at different levels Reaction against security incidents Ethical issues in non cooperative biometric recognition in public spaces With this book readers will learn how to Use computer vision pattern recognition and machine learning methods for biometric recognition in real world real time settings especially those related to forensics and security Choose the most suited biometric traits and recognition methods for uncontrolled settings Evaluate the performance of a biometric system on real world data Presents a complete picture of the biometric recognition processing chain ranging from data acquisition to the reaction procedures against security incidents Provides specific requirements and issues behind each typical phase of the development of a robust biometric recognition system Includes a contextualization of the ethical privacy issues behind the development of a covert recognition system which can be used for forensics and security activities

Progress in Pattern Recognition, Image Analysis and Applications Luis Rueda, Domingo Mery, Josef Kittler, 2007-11-13 This book constitutes the refereed proceedings of the 12th Iberoamerican Congress on Pattern Recognition CIARP 2007 held in Valparaiso Chile November 13 16 2007 The 97 revised full papers presented together with four keynote articles were carefully reviewed and selected from 200 submissions The papers cover ongoing research and mathematical methods for pattern recognition image analysis and applications in areas such as computer vision robotics industry and health Advances in Gait-Based Identification Diogo R. M. Bastos, João Manuel R. S. Tavares, 2025-07-01 This book provides a systematic review of gait based person identification categorizing studies into deep learning and non deep learning approaches while analyzing key datasets and performance metrics It explores challenges such as covariant factors e g viewing angles clothing and accessories and highlights advancements in real world gait recognition systems With a structured methodology and transparent review process this work serves as a valuable reference for researchers and a foundation for future developments in biometric identification Advances in Theory an Applications of Pattern Recognition, Image Processing and Computer Vision Eduardo Bayro-Corrochano, 2011

This book delves into Person Re Identification Advances In Computer Vision And Pattern Recognition 2014 01 04. Person Re Identification Advances In Computer Vision And Pattern Recognition 2014 01 04 is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Person Re Identification Advances In Computer Vision And Pattern Recognition 2014 01 04, encompassing both the fundamentals and more intricate discussions.

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Recognition 2014 01 04. The final chapter will summarize the key points that have been discussed throughout the book. This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Person Re Identification Advances In Computer Vision And Pattern Recognition 2014 01 04.

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