Disentangled Representation Learning GAN for Pose-Invariant Face Recognition[1]

Figure 1: With one or multiple face images as the input, DR-GAN can produce an identity representation that is both discriminative and generative, i.e., the representation demonstrates superior PIFR performance, and can synthesize identity-preserving faces at target poses specified by the pose code.

功能：
提出一个框架同时用于
pose-invariant representation (用于识别)
+
face frontalization (生成正立的人脸)

实现：
将人脸解耦成Identity Representation+Pose Code+Noise

[1] Disentangled Representation Learning GAN for Pose-Invariant Face Recognition.
Luan Tran, Xi Yin, Xiaoming Liu. CVPR 2017.

[Disentangled Representation Learning Gan For Pose](#)

Huimin Lu

Disentangled Representation Learning Gan For Pose:

Deep Learning in Biometrics Mayank Vatsa,Richa Singh,Angshul Majumdar,2018-03-05 Deep Learning is now synonymous with applied machine learning Many technology giants e g Google Microsoft Apple IBM as well as start ups are focusing on deep learning based techniques for data analytics and artificial intelligence This technology applies quite strongly to biometrics This book covers topics in deep learning namely convolutional neural networks deep belief network and stacked autoencoders The focus is also on the application of these techniques to various biometric modalities face iris palmprint and fingerprints while examining the future trends in deep learning and biometric research Contains chapters written by authors who are leading researchers in biometrics Presents a comprehensive overview on the internal mechanisms of deep learning Discusses the latest developments in biometric research Examines future trends in deep learning and biometric research Provides extensive references at the end of each chapter to enhance further study

Computer Vision – ECCV 2022 Shai Avidan,Gabriel Brostow,Moustapha Cissé,Giovanni Maria Farinella,Tal Hassner,2022-10-22 The 39 volume set comprising the LNCS books 13661 until 13699 constitutes the refereed proceedings of the 17th European Conference on Computer Vision ECCV 2022 held in Tel Aviv Israel during October 23 27 2022 The 1645 papers presented in these proceedings were carefully reviewed and selected from a total of 5804 submissions The papers deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography neural networks image coding image reconstruction object recognition motion estimation Handbook of Face Recognition Stan Z. Li,Anil K. Jain,Jiankang Deng,2023-12-29 The history of computer aided face recognition dates to the 1960s yet the problem of automatic face recognition a task that humans perform routinely and effortlessly in our daily lives still poses great challenges especially in unconstrained conditions This highly anticipated new edition provides a comprehensive account of face recognition research and technology spanning the full range of topics needed for designing operational recognition systems After a thorough introduction each subsequent chapter focuses on a specific topic reviewing background information up to date techniques and recent results as well as offering challenges and future directions Topics and features Fully updated revised and expanded covering the entire spectrum of concepts methods and algorithms for automated detection and recognition systems Provides comprehensive coverage of face detection alignment feature extraction and recognition technologies and issues in evaluation systems security and applications Contains numerous step by step algorithms Describes a broad range of applications from person verification surveillance and security to entertainment Presents contributions from an international selection of preeminent experts Integrates numerous supporting graphs tables charts and performance data This practical and authoritative reference is an essential resource for researchers professionals and students involved in image processing computer vision biometrics security Internet mobile

devices human computer interface E services computer graphics and animation and the computer game industry

Computer Vision – ACCV 2020 Hiroshi Ishikawa,Cheng-Lin Liu,Tomas Pajdla,Jianbo Shi,2021-02-24 The six volume set of LNCS 12622 12627 constitutes the proceedings of the 15th Asian Conference on Computer Vision ACCV 2020 held in Kyoto Japan in November December 2020 The total of 254 contributions was carefully reviewed and selected from 768 submissions during two rounds of reviewing and improvement The papers focus on the following topics Part I 3D computer vision segmentation and grouping Part II low level vision image processing motion and tracking Part III recognition and detection optimization statistical methods and learning robot vision Part IV deep learning for computer vision generative models for computer vision Part V face pose action and gesture video analysis and event recognition biomedical image analysis Part VI applications of computer vision vision for X datasets and performance analysis The conference was held virtually   *3D Image Technologies, Robotics and Control Engineering* Lakhmi C. Jain,Roumiana Kountcheva,Wenfeng Wang,Srikanta Patnaik,2025-03-16 This book features a collection of high quality peer reviewed research papers presented at Third World Conference on Intelligent and 3D Technologies WCI3DT 2024 held in China during May 24 26 2024 The book provides an opportunity to researchers and academia as well as practitioners from industry to publish their ideas and recent research development work on all aspects of 3D imaging technologies and artificial intelligence their applications and other related areas The book presents ideas and the works of scientists engineers educators and students from all over the world from institutions and industries   **Artificial Intelligence and Robotics** Huimin Lu,2025-03-10 This book constitutes the refereed proceedings of the 9th International Symposium Conference on Artificial Intelligence and Robotics ISAIR 2024 in Guilin China in September 27 30 2024 The 61 full papers presented were carefully reviewed and selected from a total of 164 submissions The ISAIR 2024 focuses on three important areas of pattern recognition artificial intelligence robotics and Internet of Things covering various technical aspects   **Artificial Neural Networks and Machine Learning – ICANN 2019: Workshop and Special Sessions** Igor V. Tetko,Věra Kůrková,Pavel Karpov,Fabian Theis,2019-09-10 The proceedings set LNCS 11727 11728 11729 11730 and 11731 constitute the proceedings of the 28th International Conference on Artificial Neural Networks ICANN 2019 held in Munich Germany in September 2019 The total of 277 full papers and 43 short papers presented in these proceedings was carefully reviewed and selected from 494 submissions They were organized in 5 volumes focusing on theoretical neural computation deep learning image processing text and time series and workshop and special sessions   **Multi-Dimensional Disentangled Representation Learning for Emotion Embedding Generation** Evan Czyzycki,2022 In the natural language processing NLP research community disentangled representation learning hasbecome commonplace in text style transfer and sentiment analysis Previous studies have demonstrated the utility of extracting style from text corpora in order to augment context dependent downstream tasks such as text generation Within sentiment analysis specifically disentangled representation learning has been shown to produce latent representations that can be used

to improve downstream classification tasks In this study we build upon this existing framework by 1 investigating disentangled representation learning in the multidimensional task of emotion detection 2 testing the robustness of this methodology over varying datasets and 3 exploring the interpretability of the produced latent representations We discover that closely following existing disentangled representation learning methods for sentiment analysis in a multi class setting performance decreases significantly and we are unable to effectively distinguish content and style in our learned latent representations Further work is necessary to determine the effectiveness of style disentanglement for text in multi class settings using adversarial training   *Disentangled Representation with Dual-stage Feature Learning for Face Anti-spoofing* Yu yun Wang,2021   **Real-time Feedback Via Pose Estimation and Representation Learning for a Tai-Chi Chuan Assisted Learning System** 林禾堃,2024   **Disentangled Representations in Neural Models** William F. Whitney (M. Eng),2016 Representation learning is the foundation for the recent success of neural network models However the distributed representations generated by neural networks are far from ideal Due to their highly entangled nature they are difficult to reuse and interpret and they do a poor job of capturing the sparsity which is present in real world transformations In this paper I describe methods for learning disentangled representations in the two domains of graphics and computation These methods allow neural methods to learn representations which are easy to interpret and reuse yet they incur little or no penalty to performance In the Graphics section I demonstrate the ability of these methods to infer the generating parameters of images and rerender those images under novel conditions In the Computation section I describe a model which is able to factorize a multitask learning problem into subtasks and which experiences no catastrophic forgetting Together these techniques provide the tools to design a wide range of models that learn disentangled representations and better model the factors of variation in the real world   **Generative Adversarial Networks Projects** Kailash Ahirwar,2018-10-31 Explore various Generative Adversarial Network architectures using the Python ecosystem Key Features Use different datasets to build advanced projects in the Generative Adversarial Network domain Implement projects ranging from generating 3D shapes to a face aging application Explore the power of GANs to contribute in open source research and projects Book Description Generative Adversarial Networks GANs have the potential to build next generation models as they can mimic any distribution of data Major research and development work is being undertaken in this field since it is one of the rapidly growing areas of machine learning This book will test unsupervised techniques for training neural networks as you build seven end to end projects in the GAN domain Generative Adversarial Network Projects begins by covering the concepts tools and libraries that you will use to build efficient projects You will also use a variety of datasets for the different projects covered in the book The level of complexity of the operations required increases with every chapter helping you get to grips with using GANs You will cover popular approaches such as 3D GAN DCGAN StackGAN and CycleGAN and you ll gain an understanding of the architecture and functioning of generative models through their practical implementation By the end of

this book you will be ready to build train and optimize your own end to end GAN models at work or in your own projects What you will learn Train a network on the 3D ShapeNet dataset to generate realistic shapes Generate anime characters using the Keras implementation of DCGAN Implement an SRGAN network to generate high resolution images Train Age cGAN on Wiki Cropped images to improve face verification Use Conditional GANs for image to image translation Understand the generator and discriminator implementations of StackGAN in Keras Who this book is for If you re a data scientist machine learning developer deep learning practitioner or AI enthusiast looking for a project guide to test your knowledge and expertise in building real world GANs models this book is for you   *Disentanglement, Compositionality, Specification* Tobias Hinz,2021

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