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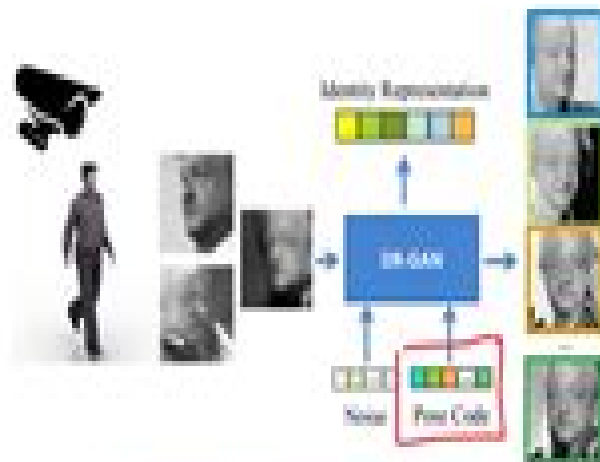

Figure 1: With one or multiple face images as the input, DR-GAN can produce an identity representation that is both discriminative and generative, i.e., the representation demonstrates superior PIFR performance, and can synthesize identity-preserving faces at target poses specified by the pose code.

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：
将人脸解构成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

Aleš Leonardis,Elisa Ricci,Stefan Roth,Olga Russakovsky,Torsten Sattler,Gül Varol

Disentangled Representation Learning Gan For Pose:

Heterogeneous Facial Analysis and Synthesis Yi Li,Huaibo Huang,Ran He,Tieniu Tan,2020-06-24 This book presents a comprehensive review of heterogeneous face analysis and synthesis ranging from the theoretical and technical foundations to various hot and emerging applications such as cosmetic transfer cross spectral hallucination and face rotation Deep generative models have been at the forefront of research on artificial intelligence in recent years and have enhanced many heterogeneous face analysis tasks Not only has there been a constantly growing flow of related research papers but there have also been substantial advances in real world applications Bringing these together this book describes both the fundamentals and applications of heterogeneous face analysis and synthesis Moreover it discusses the strengths and weaknesses of related methods and outlines future trends Offering a rich blend of theory and practice the book represents a valuable resource for students researchers and practitioners who need to construct face analysis systems with deep generative networks **Deep Learning for Crack-Like Object Detection** Kaige Zhang,Heng-Da Cheng,2023-03-20 Computer vision based crack like object detection has many useful applications such as inspecting monitoring pavement surface underground pipeline bridge cracks railway tracks etc However in most contexts cracks appear as thin irregular long narrow objects and often are buried in complex textured background with high diversity which make the crack detection very challenging During the past a few years deep learning technique has achieved great success and has been utilized for solving a variety of object detection problems This book discusses crack like object detection problem comprehensively It starts by discussing traditional image processing approaches for solving this problem and then introduces deep learning based methods It provides a detailed review of object detection problems and focuses on the most challenging problem crack like object detection to dig deep into the deep learning method It includes examples of real world problems which are easy to understand and could be a good tutorial for introducing computer vision and machine learning **Intelligent Computing and Communication** K. Srujan Raju,Roman Senkerik,T. Kishore Kumar,Mathini Sellathurai,Voruganti Naresh Kumar,2025-03-28 This book features a collection of high quality peer reviewed papers presented at the Seventh International Conference on Intelligent Computing and Communication ICICC 2024 organized by CMR Technical Campus CMRTC Hyderabad Telangana India on August 30 31 2024 It focuses on innovation paradigms in system knowledge intelligence and sustainability that can be applied to provide practical solutions to several problems in society the environment and industry Further the book also addresses the deployment of emerging computational and knowledge transfer approaches optimizing solutions in various disciplines of science technology and health care Safety, Security, and Reliability of Robotic Systems Brij B. Gupta,Nadia Nedjah,2020-12-30 With the increasing demand of robots for industrial and domestic use it becomes indispensable to ensure their safety security and reliability Safety Security and Reliability of Robotic Systems Algorithms Applications and Technologies provides a broad and comprehensive coverage of the

evolution of robotic systems as well as industrial statistics and future forecasts First it analyzes the safety related parameters of these systems Then it covers security attacks and related countermeasures and how to establish reliability in these systems The later sections of the book then discuss various applications of these systems in modern industrial and domestic settings By the end of this book you will be familiarized with the theoretical frameworks algorithms applications technologies and empirical research findings on the safety security and reliability of robotic systems while the book s modular structure and comprehensive material will keep you interested and involved throughout This book is an essential resource for students professionals and entrepreneurs who wish to understand the safe secure and reliable use of robotics in real world applications It is edited by two specialists in the field with chapter contributions from an array of experts on robotics systems and applications   <u>Recent Trends in Image Processing and Pattern Recognition</u> K. C. Santosh,Bharti Gawali,2021-02-25 This two volume set constitutes the refereed proceedings of the Third International Conference on Recent Trends in Image Processing and Pattern Recognition RTIP2R 2020 held in Aurangabad India in January 2020 The 78 revised full papers presented were carefully reviewed and selected from 329 submissions The papers are organized in topical sections in the two volumes Part I Computer vision and applications Data science and machine learning Document understanding and Recognition Part II Healthcare informatics and medical imaging Image analysis and recognition Signal processing and pattern recognition Image and signal processing in Agriculture   **Computer Vision – ECCV 2018** Vittorio Ferrari,Martial Hebert,Cristian Sminchisescu,Yair Weiss,2018-10-08 The sixteen volume set comprising the LNCS volumes 11205 11220 constitutes the refereed proceedings of the 15th European Conference on Computer Vision ECCV 2018 held in Munich Germany in September 2018 The 776 revised papers presented were carefully reviewed and selected from 2439 submissions The papers are organized in topical sections on learning for vision computational photography human analysis human sensing stereo and reconstruction optimization matching and recognition video attention and poster sessions
    <u>Adversary-Aware Learning Techniques and Trends in Cybersecurity</u> Prithviraj Dasgupta,Joseph B. Collins,Ranjeev Mittu,2021-01-22 This book is intended to give researchers and practitioners in the cross cutting fields of artificial intelligence machine learning AI ML and cyber security up to date and in depth knowledge of recent techniques for improving the vulnerabilities of AI ML systems against attacks from malicious adversaries The ten chapters in this book written by eminent researchers in AI ML and cyber security span diverse yet inter related topics including game playing AI and game theory as defenses against attacks on AI ML systems methods for effectively addressing vulnerabilities of AI ML operating in large distributed environments like Internet of Things IoT with diverse data modalities and techniques to enable AI ML systems to intelligently interact with humans that could be malicious adversaries and or benign teammates Readers of this book will be equipped with definitive information on recent developments suitable for countering adversarial threats in AI ML systems towards making them operate in a safe reliable and seamless manner   **Computer Vision and Image**

Processing Satish Kumar Singh,Partha Roy,Balasubramanian Raman,P. Nagabhushan,2021-03-27 This three volume set CCIS 1367 1368 constitutes the refereed proceedings of the 5th International Conference on Computer Vision and Image Processing CVIP 2020 held in Prayagraj India in December 2020 Due to the COVID 19 pandemic the conference was partially held online The 134 papers papers were carefully reviewed and selected from 352 submissions The papers present recent research on such topics as biometrics forensics content protection image enhancement super resolution restoration motion and tracking image or video retrieval image image video processing for autonomous vehicles video scene understanding human computer interaction document image analysis face iris emotion sign language and gesture recognition 3D image video processing action and event detection recognition medical image and video analysis vision based human GAIT analysis remote sensing and more   **Selfie Biometrics** Ajita Rattani,Reza Derakhshani,Arun Ross,2019-09-21 This book highlights the field of selfie biometrics providing a clear overview and presenting recent advances and challenges It also discusses numerous selfie authentication techniques on mobile devices Biometric authentication using mobile devices is becoming a convenient and important means of verifying identity for secured access and services such as telebanking and electronic transactions In this context face and ocular biometrics in the visible spectrum has gained increased attention from the research community However device mobility and operation in uncontrolled environments mean that facial and ocular images captured with mobile devices exhibit substantial degradation as a result of adverse lighting conditions specular reflections and motion and defocus blur In addition low spatial resolution and the small sensor of front facing mobile cameras further degrade the sample quality reducing the recognition accuracy of face and ocular recognition technology when integrated into smartphones Presenting the state of the art in mobile biometric research and technology and offering an overview of the potential problems in real time integration of biometrics in mobile devices this book is a valuable resource for final year undergraduate students postgraduate students engineers researchers and academics in various fields of computer engineering   Proceedings of the 21st EANN (Engineering Applications of Neural Networks) 2020 Conference Lazaros Iliadis,Plamen Parvanov Angelov,Chrisina Jayne,Elias Pimenidis,2020-05-27 This book gathers the proceedings of the 21st Engineering Applications of Neural Networks Conference which is supported by the International Neural Networks Society INNS Artificial Intelligence AI has been following a unique course characterized by alternating growth spurts and AI winters Today AI is an essential component of the fourth industrial revolution and enjoying its heyday Further in specific areas AI is catching up with or even outperforming human beings This book offers a comprehensive guide to AI in a variety of areas concentrating on new or hybrid AI algorithmic approaches with robust applications in diverse sectors One of the advantages of this book is that it includes robust algorithmic approaches and applications in a broad spectrum of scientific fields namely the use of convolutional neural networks CNNs deep learning and LSTM in robotics machine vision engineering image processing medical systems the environment machine learning and meta learning applied to neurobiological modeling

optimization state of the art hybrid systems and the algorithmic foundations of artificial neural networks **Proceedings of International Conference on Data Science and Applications** Mukesh Saraswat,Chandreyee Chowdhury,Chintan Kumar Mandal,Amir H. Gandomi,2023-02-06 This book gathers outstanding papers presented at the International Conference on Data Science and Applications ICDSA 2022 organized by Soft Computing Research Society SCRS and Jadavpur University Kolkata India from 26 to 27 March 2022 It covers theoretical and empirical developments in various areas of big data analytics big data technologies decision tree learning wireless communication wireless sensor networking bioinformatics and systems artificial neural networks deep learning genetic algorithms data mining fuzzy logic optimization algorithms image processing computational intelligence in civil engineering and creative computing **Computer Vision – ECCV 2020** Andrea Vedaldi,Horst Bischof,Thomas Brox,Jan-Michael Frahm,2020-11-02 The 30 volume set comprising the LNCS books 12346 until 12375 constitutes the refereed proceedings of the 16th European Conference on Computer Vision ECCV 2020 which was planned to be held in Glasgow UK during August 23 28 2020 The conference was held virtually due to the COVID 19 pandemic The 1360 revised papers presented in these proceedings were carefully reviewed and selected from a total of 5025 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 Computer Vision – ECCV 2024 Aleš Leonardis,Elisa Ricci,Stefan Roth,Olga Russakovsky,Torsten Sattler,Gül Varol,2024-11-23 The multi volume set of LNCS books with volume numbers 15059 up to 15147 constitutes the refereed proceedings of the 18th European Conference on Computer Vision ECCV 2024 held in Milan Italy during September 29 October 4 2024 The 2387 papers presented in these proceedings were carefully reviewed and selected from a total of 8585 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 motion estimation Computer Vision in the Infrared Spectrum Michael Teutsch,Angel D. Sappa,Riad I. Hammoud,2022-06-01 Human visual perception is limited to the visual optical spectrum Machine vision is not Cameras sensitive to the different infrared spectra can enhance the abilities of autonomous systems and visually perceive the environment in a holistic way Relevant scene content can be made visible especially in situations where sensors of other modalities face issues like a visual optical camera that needs a source of illumination As a consequence not only human mistakes can be avoided by increasing the level of automation but also machine induced errors can be reduced that for example could make a self driving car crash into a pedestrian under difficult illumination conditions Furthermore multi spectral sensor systems with infrared imagery as one modality are a rich source of information and can provably increase the

robustness of many autonomous systems Applications that can benefit from utilizing infrared imagery range from robotics to automotive and from biometrics to surveillance In this book we provide a brief yet concise introduction to the current state of the art of computer vision and machine learning in the infrared spectrum Based on various popular computer vision tasks such as image enhancement object detection or object tracking we first motivate each task starting from established literature in the visual optical spectrum Then we discuss the differences between processing images and videos in the visual optical spectrum and the various infrared spectra An overview of the current literature is provided together with an outlook for each task Furthermore available and annotated public datasets and common evaluation methods and metrics are presented In a separate chapter popular applications that can greatly benefit from the use of infrared imagery as a data source are presented and discussed Among them are automatic target recognition video surveillance or biometrics including face recognition Finally we conclude with recommendations for well fitting sensor setups and data processing algorithms for certain computer vision tasks We address this book to prospective researchers and engineers new to the field but also to anyone who wants to get introduced to the challenges and the approaches of computer vision using infrared images or videos Readers will be able to start their work directly after reading the book supported by a highly comprehensive backlog of recent and relevant literature as well as related infrared datasets including existing evaluation frameworks Together with consistently decreasing costs for infrared cameras new fields of application appear and make computer vision in the infrared spectrum a great opportunity to face nowadays scientific and engineering challenges *Biometric Recognition* Wei Jia,Wenxiong Kang,Zaiyu Pan,Xianye Ben,Zhengfu Bian,Shiqi Yu,Zhaofeng He,Jun Wang,2023-12-01 This book constitutes the proceedings of the 17th Chinese Conference CCBR 2023 held in Xuzhou China during December 1 3 2023 The 41 full papers included in this volume were carefully reviewed and selected from 79 submissions The volume is divided in topical sections named Fingerprint Palmprint and Vein Recognition Face Detection Recognition and Tracking Affective Computing and Human Computer Interface Trustworthy Privacy and Personal Data Security Medical and Other Applications <u>Facial Multi-characteristics And Applications</u> Bob Zhang,Qijun Zhao,David Zhang,2018-11-19 What features or information can we observe from a face and how can these information help us to understand the person concerned in terms of their well being and what can we learn about and from each given feature This book answers these questions by first dividing a face s multiple characteristics into two main categories original or physiological features and features that change over a lifetime The first category original features may be further divided into two sub classes features special or unique to an individual and features common to a particular group The second changed features can also be subdivided into two groups features altered due to disease or features altered by other external factors From these four sub categories four different applications facial identification using original and special features beauty analysis using original common features facial diagnosis by disease changed features and expression recognition through affect changed features are identified The book will benefit

researchers professionals and graduate students working in the field of computer vision pattern recognition security clinical practice and beauty analysis and will also be useful for interdisciplinary research   Security and Artificial Intelligence Lejla Batina,Thomas Bäck,Ileana Buhan,Stjepan Picek,2022-04-07 AI has become an emerging technology to assess security and privacy with many challenges and potential solutions at the algorithm architecture and implementation levels So far research on AI and security has looked at subproblems in isolation but future solutions will require sharing of experience and best practice in these domains The editors of this State of the Art Survey invited a cross disciplinary team of researchers to a Lorentz workshop in 2019 to improve collaboration in these areas Some contributions were initiated at the event others were developed since through further invitations editing and cross reviewing This contributed book contains 14 invited chapters that address side channel attacks and fault injection cryptographic primitives adversarial machine learning and intrusion detection The chapters were evaluated based on their significance technical quality and relevance to the topics of security and AI and each submission was reviewed in single blind mode and revised   *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   *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   **Advanced Methods and Deep Learning in Computer Vision** E. R. Davies,Matthew Turk,2021-11-09 Advanced Methods and Deep Learning in Computer Vision presents advanced computer vision methods emphasizing machine and deep learning techniques that have emerged during the past 5 10 years The book provides clear explanations of principles and algorithms supported with applications Topics covered include

machine learning deep learning networks generative adversarial networks deep reinforcement learning self supervised learning extraction of robust features object detection semantic segmentation linguistic descriptions of images visual search visual tracking 3D shape retrieval image inpainting novelty and anomaly detection This book provides easy learning for researchers and practitioners of advanced computer vision methods but it is also suitable as a textbook for a second course on computer vision and deep learning for advanced undergraduates and graduate students Provides an important reference on deep learning and advanced computer methods that was created by leaders in the field Illustrates principles with modern real world applications Suitable for self learning or as a text for graduate courses

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Table of Contents Disentangled Representation Learning Gan For Pose

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