

GROUND TRUTH / INPUT DRIFT



Ground Truth

Labelled event is compared to the prediction



Cornerstone



Input Drift

Instead of waiting for the labelled event, the train data and recent data are compared statistically



Early warning signs

Ground Truth Ground Truth

**Andreas Fischer, Marcus Liwicki, Rolf
(Jurg) Ingold**



Ground Truth Ground Truth:

Ground Truth Mark L. Hines, 2018-06-21 Expertly crafted and enjoyable transforms the complicated topics of phenology and climate change accessible tangible and actionable Mark D Schwartz editor of Phenology An Integrative Environmental Science Before you read this book grab a notebook go outside and find a nearby patch of nature What do you see hear feel and smell Are there bugs birds squirrels deer lizards frogs or fish and what are they doing What plants are in the vicinity and in what ways are they growing What shape are the rocks what texture is the dirt and what color are the bodies of water Everything you notice write it all down We know that the Earth's climate is changing and that the magnitude of this change is colossal At the same time the world outside is still a natural world and one we can experience on a granular level every day Featuring detailed guidance for keeping records of the plants invertebrates amphibians birds and mammals in your neighborhood this book also ponders the value of everyday observations probes the connections between seasons and climate change and traces the history of phenology the study and timing of natural events and the uses to which it can be put An expansive yet accessible book Ground Truth is a guide to paying attention instead of turning away and to gathering facts from which a fuller understanding of the natural world can emerge A unique DIY manual for becoming attuned to the rhythms of the natural world James T Costa author of Darwin's Backyard How Small Experiments Led to a Big Theory A necessary book Susan J Tweit author of Walking Nature Home A Life's Journey Ground Truth Patrick Joseph Bishop, 2009

Computer Vision Metrics Scott Krig, 2014-06-14 Computer Vision Metrics provides an extensive survey and analysis of over 100 current and historical feature description and machine vision methods with a detailed taxonomy for local regional and global features This book provides necessary background to develop intuition about why interest point detectors and feature descriptors actually work how they are designed with observations about tuning the methods for achieving robustness and invariance targets for specific applications The survey is broader than it is deep with over 540 references provided to dig deeper The taxonomy includes search methods spectra components descriptor representation shape distance functions accuracy efficiency robustness and invariance attributes and more Rather than providing how to source code examples and shortcuts this book provides a counterpoint discussion to the many fine opencv community source code resources available for hands on practitioners Explainable AI: Interpreting, Explaining and Visualizing Deep Learning Wojciech Samek, Grégoire Montavon, Andrea Vedaldi, Lars Kai Hansen, Klaus-Robert Müller, 2019-09-10 The development of intelligent systems that can take decisions and perform autonomously might lead to faster and more consistent decisions A limiting factor for a broader adoption of AI technology is the inherent risks that come with giving up human control and oversight to intelligent machines For sensitive tasks involving critical infrastructures and affecting human well being or health it is crucial to limit the possibility of improper non robust and unsafe decisions and actions Before deploying an AI system we see a strong need to validate its behavior and thus establish guarantees that it will continue to perform as

expected when deployed in a real world environment In pursuit of that objective ways for humans to verify the agreement between the AI decision structure and their own ground truth knowledge have been explored Explainable AI XAI has developed as a subfield of AI focused on exposing complex AI models to humans in a systematic and interpretable manner The 22 chapters included in this book provide a timely snapshot of algorithms theory and applications of interpretable and explainable AI and AI techniques that have been proposed recently reflecting the current discourse in this field and providing directions of future development The book is organized in six parts towards AI transparency methods for interpreting AI systems explaining the decisions of AI systems evaluating interpretability and explanations applications of explainable AI and software for explainable AI

Medical Image Understanding and Analysis Bartłomiej W. Papież, Mohammad Yaqub, Jianbo Jiao, Ana I. L. Namburete, J. Alison Noble, 2021-07-06 This book constitutes the refereed proceedings of the 25th Conference on Medical Image Understanding and Analysis MIUA 2021 held in July 2021 Due to COVID 19 pandemic the conference was held virtually The 32 full papers and 8 short papers presented were carefully reviewed and selected from 77 submissions They were organized according to following topical sections biomarker detection image registration and reconstruction image segmentation generative models biomedical simulation and modelling classification image enhancement quality assessment and data privacy radiomics predictive models and quantitative imaging

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

Transfer Learning Qiang Yang, Yu Zhang, Wenyuan Dai, Sinno Jialin Pan, 2020-02-13 Transfer learning deals with how systems can quickly adapt themselves to new situations tasks and environments It gives machine learning systems the ability to leverage auxiliary data and models to help solve target problems when there is only a small amount of data available This makes such systems more reliable and robust keeping the machine learning model faced with unforeseeable changes from deviating too much from expected performance At an enterprise level transfer learning allows knowledge to be reused so experience gained once can be repeatedly applied to the real world For example a pre trained model that takes account of user privacy can be downloaded and adapted at the edge of a computer network This self contained comprehensive reference text describes the standard algorithms and demonstrates how these are used in different transfer learning paradigms It offers a solid grounding for newcomers as well as new insights for seasoned researchers and developers

Data Analysis with LLMs

Immanuel Trummer, 2025-05-13 Speed up common data science tasks with AI assistants like ChatGPT and Large Language Models LLMs from Anthropic Cohere Open AI Google Hugging Face and more Data Analysis with LLMs teaches you to use the new generation of AI assistants and Large Language Models LLMs to aid and accelerate common data science tasks Learn how to use LLMs to Analyze text tables images and audio files Extract information from multi modal data lakes Classify cluster transform and query multimodal data Build natural language query interfaces over structured data sources Use LangChain to build complex data analysis pipelines Prompt engineering and model configuration All practical Data Analysis with LLMs takes you from your first prompts through advanced techniques like creating LLM based agents for data analysis and fine tuning existing models You ll learn how to extract data build natural language query interfaces and much more About the technology Large Language Models LLMs can streamline and accelerate almost any data science task Master the techniques in this book and you ll be able to analyze large amounts of text tabular and graph data images videos and more with clear natural language prompts and a few lines of Python code About the book Data Analysis with LLMs shows you exactly how to integrate generative AI into your day to day work as a data scientist In it Cornell professor Immanuel Trummer guides you through a series of engaging projects that introduce OpenAI s Python library tools like LangChain and LlamaIndex and LLMs from Anthropic Cohere and Hugging Face As you go you ll use AI to query structured and unstructured data analyze sound and images and optimize the cost and quality of your data analysis process What s inside Classify cluster transform and query multimodal data Build natural language query interfaces over structured data sources Create LLM based agents for autonomous data analysis Prompt engineering and model configuration About the reader For data scientists and data analysts who know the basics of Python About the author Immanuel Trummer is an associate professor of computer science at Cornell University and a member of the Cornell Database Group Table of Contents Part 1 1 Analyzing data with large language models 2 Chatting with ChatGPT Part 2 3 The OpenAI Python library 4 Analyzing text data 5 Analyzing structured data 6 Analyzing images and videos 7 Analyzing audio data Part 3 8 GPT alternatives 9 Optimizing cost and quality 10 Software frameworks **Performance Characterization in Computer Vision** Reinhard Klette, H. Siegfried Stiehl, Max A. Viergever, Koen L. Vincken, 2013-04-17 This edited volume addresses a subject which has been discussed intensively in the computer vision community for several years Performance characterization and evaluation of computer vision algorithms are of key importance particularly with respect to the configuration of reliable and robust computer vision systems as well as the dissemination of reconfigurable systems in novel application domains Although a plethora of literature on this subject is available for certain areas of computer vision the research community still faces a lack of a well grounded generally accepted and eventually standardized methods The range of fundamental problems encountered passes the value of synthetic images in experimental computer vision the selection of a representative set of real images related to specific domains and tasks the definition of ground truth given different tasks and applications the design of

experimental test beds the analysis of algorithms with respect to general characteristics such as complexity resource consumption convergence stability or range of admissible input data the definition and analysis of performance measures for classes of algorithms the role of statistics based performance measures the generation of data sheets with performance measures of algorithms supporting the system engineer in his configuration problem and the validity of model assumptions for specific applications of computer vision Cognitive Requirements for Information Operations Training (CRIOT) ,1999

The advent of battlefield digitization increases the work trainers for live force on force exercises must do to control exercises and provide feedback to units and it will pull trainers at platoon and company level out of the tactical information loop The goal of this study was to describe instrumentation capabilities with the potential for reducing workloads and pulling trainers back into the information loop for exercises at the Army's maneuver combat training centers CTCs and at home stations This study documents the experiences of approximately seventy of the National Training Center NTC observer controllers OCs and analysts that participated in the training of the Army's first digitized brigade during the Force XXI Army warfighting Experiment AWE To gain a better understanding of what is required to support digital training the study team reviewed emerging tactical doctrine from platoon through battalion task force level to develop a sample of potential digital training points and then designed displays that would help a trainer monitor unit performance with respect to these points The team then defined the capabilities a workstation would need to create these displays This report describes defends and illustrates twenty workstation capabilities that support exercise control and feedback for digitized units DTIC **Document Analysis**

Systems V Daniel Lopresti,Jianying Hu,Ramanujan Kashi,2002-08-07 This book constitutes the refereed proceedings of the 5th International Workshop on Document Analysis Systems DAS 2002 held in Princeton NJ USA in August 2002 with sponsorship from IAPR The 44 revised full papers presented together with 14 short papers were carefully reviewed and selected for inclusion in the book All current issues in document analysis systems are addressed The papers are organized in topical sections on OCR features and systems handwriting recognition layout analysis classifiers and learning tables and forms text extraction indexing and retrieval document engineering and new applications *Intelligent Distributed Video*

Surveillance Systems Institution of Electrical Engineers,2006-02-14 There is a growing interest in the development and deployment of intelligent surveillance systems in public and private locations This book consists of a selection of extended versions of presentations made in two symposia on intelligent distributed surveillance systems IDSS and brings together the latest developments in the field *Crystal structure prediction using neural network potential and age-fitness Pareto*

genetic algorithm Sadman Sadeed Omeed,Lai Wei,Ming Hu,Jianjun Hu,2024-03-02 While crystal structure prediction CSP remains a longstanding challenge we introduce ParetoCSP a novel algorithm for CSP which combines a multi objective genetic algorithm GA with a neural network inter atomic potential model to find energetically optimal crystal structures given chemical compositions We enhance the updated multi objective GA NSGA III by incorporating the genotypic age as an

independent optimization criterion and employ the M3GNet universal inter atomic potential to guide the GA search Compared to GN OA a state of the art neural potential based CSP algorithm ParetoCSP demonstrated significantly better predictive capabilities outperforming by a factor of 2 562 across 55 diverse benchmark structures as evaluated by seven performance metrics Trajectory analysis of the traversed structures of all algorithms shows that ParetoCSP generated more valid structures than other algorithms which helped guide the GA to search more effectively for the optimal structures Our implementation code is available at <https://github.com/sadmanomee/ParetoCSP> *Handwritten Historical Document Analysis, Recognition, And Retrieval - State Of The Art And Future Trends* Andreas Fischer, Marcus Liwicki, Rolf (Jurg) Ingold, 2020-11-11

In recent years libraries and archives all around the world have increased their efforts to digitize historical manuscripts To integrate the manuscripts into digital libraries pattern recognition and machine learning methods are needed to extract and index the contents of the scanned images The unique compendium describes the outcome of the HisDoc research project a pioneering attempt to study the whole processing chain of layout analysis handwriting recognition and retrieval of historical manuscripts This description is complemented with an overview of other related research projects in order to convey the current state of the art in the field and outline future trends This must have volume is a relevant reference work for librarians archivists and computer scientists

Advances in Non-Invasive Biomedical Signal Sensing and Processing with Machine Learning Saeed Mian Qaisar, Humaira Nisar, Abdulhamit Subasi, 2023-03-01 This book presents the modern technological advancements and revolutions in the biomedical sector Progress in the contemporary sensing Internet of Things IoT and machine learning algorithms and architectures have introduced new approaches in the mobile healthcare A continuous observation of patients with critical health situation is required It allows monitoring of their health status during daily life activities such as during sports walking and sleeping It is realizable by intelligently hybridizing the modern IoT framework wireless biomedical implants and cloud computing Such solutions are currently under development and in testing phases by healthcare and governmental institutions research laboratories and biomedical companies The biomedical signals such as electrocardiogram ECG electroencephalogram EEG Electromyography EMG phonocardiogram PCG Chronic Obstructive Pulmonary COP Electrooculography EoG photoplethysmography PPG and image modalities such as positron emission tomography PET magnetic resonance imaging MRI and computerized tomography CT are non invasively acquired measured and processed via the biomedical sensors and gadgets These signals and images represent the activities and conditions of human cardiovascular neural vision and cerebral systems Multi channel sensing of these signals and images with an appropriate granularity is required for an effective monitoring and diagnosis It renders a big volume of data and its analysis is not feasible manually Therefore automated healthcare systems are in the process of evolution These systems are mainly based on biomedical signal and image acquisition and sensing preconditioning features extraction and classification stages The contemporary biomedical signal sensing preconditioning features extraction

and intelligent machine and deep learning based classification algorithms are described Each chapter starts with the importance problem statement and motivation A self sufficient description is provided Therefore each chapter can be read independently To the best of the editors knowledge this book is a comprehensive compilation on advances in non invasive biomedical signal sensing and processing with machine and deep learning We believe that theories algorithms realizations applications approaches and challenges which are presented in this book will have their impact and contribution in the design and development of modern and effective healthcare systems

Cross Reality and Data Science in Engineering

Michael E. Auer, Dominik May, 2020-08-20 Today online technologies are at the core of most fields of engineering and society as a whole This book discusses the fundamentals applications and lessons learned in the field of online and remote engineering virtual instrumentation and other related technologies like Cross Reality Data Science Big Data Internet of Things Industrial Internet of Things Industry 4 0 Cyber Security and M2M Smart Objects Since the first Remote Engineering and Virtual Instrumentation REV conference in 2004 the event has focused on the use of the Internet for engineering tasks as well as the related opportunities and challenges In a globally connected world interest in online collaboration teleworking remote services and other digital working environments is rapidly increasing In this context the REV conferences discuss fundamentals applications and experiences in the field of Online and Remote Engineering as well as Virtual Instrumentation Furthermore the conferences focus on guidelines and new concepts for engineering education in higher and vocational education institutions including emerging technologies in learning MOOCs MOOLs and open resources This book presents the proceedings of REV2020 on Cross Reality and Data Science in Engineering which was held as the 17th in series of annual events It was organized in cooperation with the Engineering Education Transformations Institute and the Georgia Informatics Institutes for Research and Education and was held at the College of Engineering at the University of Georgia in Athens GA USA from February 26 to 28 2020

Compiler Construction

Albert Cohen, 2014-03-21 This book constitutes the proceedings of the 23rd International Conference on Compiler Construction CC 2014 which was held as part of the European Joint Conferences on Theory and Practice of Software ETAPS 2014 which took place in Grenoble France in April 2014 The 10 full papers and 4 tool papers included in this volume were carefully reviewed and selected from 47 submissions the book also contains one invited talk The papers are organized in topical sections named program analysis and optimization parallelism and parsing and new trends in compilation

Stochastic Modeling for Medical Image Analysis

Ayman El-Baz, Georgy Gimel'farb, Jasjit S. Suri, 2015-11-18 Stochastic Modeling for Medical Image Analysis provides a brief introduction to medical imaging stochastic modeling and model guided image analysis Today image guided computer assisted diagnostics CAD faces two basic challenging problems The first is the computationally feasible and accurate modeling of images from different modalities to obt

Complex Networks & Their Applications XIII

Hocine Cherifi, Murat Donduran, Luis M. Rocha, Chantal Cherifi, Onur Varol, 2025-03-27 This book highlights cutting edge research in network science offering

scientists researchers students and practitioners a unique update on the latest advances in theory and a multitude of applications It presents the peer reviewed proceedings of the XIII International Conference on Complex Networks and their Applications COMPLEX NETWORKS 2024 The carefully selected papers cover a wide range of theoretical topics such as network embedding and network geometry community structure network dynamics diffusion epidemics and spreading processes machine learning and graph neural networks as well as all the main network applications including social and political networks networks in finance and economics biological networks and technological networks **Information and Communications Security** Debin Gao,Qi Li,Xiaohong Guan,Xiaofeng Liao,2021-09-17 This two volume set LNCS 12918 12919 constitutes the refereed proceedings of the 23rd International Conference on Information and Communications Security ICICS 2021 held in Chongqing China in September 2021 The 49 revised full papers presented in the book were carefully selected from 182 submissions The papers in Part II are organized in the following thematic blocks machine learning security multimedia security security analysis post quantum cryptography applied cryptography

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