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Metric Learning

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**David Fleet,Tomas Pajdla,Bernt
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Metric Learning Amaury Habrard:

    <u>Metric Learning</u> Aurelien Bellet,Amaury Habrard,Marc Sebban,2015-01-01 Similarity between objects plays an important role in both human cognitive processes and artificial systems for recognition and categorization How to appropriately measure such similarities for a given task is crucial to the performance of many machine learning pattern recognition and data mining methods This book is devoted to metric learning a set of techniques to automatically learn similarity and distance functions from data that has attracted a lot of interest in machine learning and related fields in the past ten years In this book we provide a thorough review of the metric learning literature that covers algorithms theory and applications for both numerical and structured data We first introduce relevant definitions and classic metric functions as well as examples of their use in machine learning and data mining We then review a wide range of metric learning algorithms starting with the simple setting of linear distance and similarity learning We show how one may scale up these methods to very large amounts of training data To go beyond the linear case we discuss methods that learn nonlinear metrics or multiple linear metrics throughout the feature space and review methods for more complex settings such as multi task and semi supervised learning Although most of the existing work has focused on numerical data we cover the literature on metric learning for structured data like strings trees graphs and time series In the more technical part of the book we present some recent statistical frameworks for analyzing the generalization performance in metric learning and derive results for some of the algorithms presented earlier Finally we illustrate the relevance of metric learning in real world problems through a series of successful applications to computer vision bioinformatics and information retrieval   **Metric Learning** Aurélien Muise,Amaury Yang,2022-05-31 Similarity between objects plays an important role in both human cognitive processes and artificial systems for recognition and categorization How to appropriately measure such similarities for a given task is crucial to the performance of many machine learning pattern recognition and data mining methods This book is devoted to metric learning a set of techniques to automatically learn similarity and distance functions from data that has attracted a lot of interest in machine learning and related fields in the past ten years In this book we provide a thorough review of the metric learning literature that covers algorithms theory and applications for both numerical and structured data We first introduce relevant definitions and classic metric functions as well as examples of their use in machine learning and data mining We then review a wide range of metric learning algorithms starting with the simple setting of linear distance and similarity learning We show how one may scale up these methods to very large amounts of training data To go beyond the linear case we discuss methods that learn nonlinear metrics or multiple linear metrics throughout the feature space and review methods for more complex settings such as multi task and semi supervised learning Although most of the existing work has focused on numerical data we cover the literature on metric learning for structured data like strings trees graphs and time series In the more technical part of the book we present some recent statistical frameworks for analyzing the generalization performance in metric

learning and derive results for some of the algorithms presented earlier Finally we illustrate the relevance of metric learning in real world problems through a series of successful applications to computer vision bioinformatics and information retrieval Table of Contents Introduction Metrics Properties of Metric Learning Algorithms Linear Metric Learning Nonlinear and Local Metric Learning Metric Learning for Special Settings Metric Learning for Structured Data Generalization Guarantees for Metric Learning Applications Conclusion Bibliography Authors Biographies   *Elements of Dimensionality Reduction and Manifold Learning* Benyamin Ghojogh,Mark Crowley,Fakhri Karray,Ali Ghodsi,2023-02-02 Dimensionality reduction also known as manifold learning is an area of machine learning used for extracting informative features from data for better representation of data or separation between classes This book presents a cohesive review of linear and nonlinear dimensionality reduction and manifold learning Three main aspects of dimensionality reduction are covered spectral dimensionality reduction probabilistic dimensionality reduction and neural network based dimensionality reduction which have geometric probabilistic and information theoretic points of view to dimensionality reduction respectively The necessary background and preliminaries on linear algebra optimization and kernels are also explained to ensure a comprehensive understanding of the algorithms The tools introduced in this book can be applied to various applications involving feature extraction image processing computer vision and signal processing This book is applicable to a wide audience who would like to acquire a deep understanding of the various ways to extract transform and understand the structure of data The intended audiences are academics students and industry professionals Academic researchers and students can use this book as a textbook for machine learning and dimensionality reduction Data scientists machine learning scientists computer vision scientists and computer scientists can use this book as a reference It can also be helpful to statisticians in the field of statistical learning and applied mathematicians in the fields of manifolds and subspace analysis Industry professionals including applied engineers data engineers and engineers in various fields of science dealing with machine learning can use this as a guidebook for feature extraction from their data as the raw data in industry often require preprocessing The book is grounded in theory but provides thorough explanations and diverse examples to improve the reader s comprehension of the advanced topics Advanced methods are explained in a step by step manner so that readers of all levels can follow the reasoning and come to a deep understanding of the concepts This book does not assume advanced theoretical background in machine learning and provides necessary background although an undergraduate level background in linear algebra and calculus is recommended   *ECAI 2020* G. De Giacomo,A. Catala,B. Dilkina,2020-09-11 This book presents the proceedings of the 24th European Conference on Artificial Intelligence ECAI 2020 held in Santiago de Compostela Spain from 29 August to 8 September 2020 The conference was postponed from June and much of it conducted online due to the COVID 19 restrictions The conference is one of the principal occasions for researchers and practitioners of AI to meet and discuss the latest trends and challenges in all fields of AI and to demonstrate innovative applications and uses of advanced AI technology

The book also includes the proceedings of the 10th Conference on Prestigious Applications of Artificial Intelligence PAIS 2020 held at the same time A record number of more than 1 700 submissions was received for ECAI 2020 of which 1 443 were reviewed Of these 361 full papers and 36 highlight papers were accepted an acceptance rate of 25% for full papers and 45% for highlight papers The book is divided into three sections ECAI full papers ECAI highlight papers and PAIS papers The topics of these papers cover all aspects of AI including Agent based and Multi agent Systems Computational Intelligence Constraints and Satisfiability Games and Virtual Environments Heuristic Search Human Aspects in AI Information Retrieval and Filtering Knowledge Representation and Reasoning Machine Learning Multidisciplinary Topics and Applications Natural Language Processing Planning and Scheduling Robotics Safe Explainable and Trustworthy AI Semantic Technologies Uncertainty in AI and Vision The book will be of interest to all those whose work involves the use of AI technology

Computer Vision -- ECCV 2014 David Fleet,Tomas Pajdla,Bernt Schiele,Tinne Tuytelaars,2014-08-14 The seven volume set comprising LNCS volumes 8689 8695 constitutes the refereed proceedings of the 13th European Conference on Computer Vision ECCV 2014 held in Zurich Switzerland in September 2014 The 363 revised papers presented were carefully reviewed and selected from 1444 submissions The papers are organized in topical sections on tracking and activity recognition recognition learning and inference structure from motion and feature matching computational photography and low level vision vision segmentation and saliency context and 3D scenes motion and 3D scene analysis and poster sessions

Machine Learning: ECML 2007 Joost N. Kok,Jacek Koronacki,Ramon Lopez de Mantaras,Stan Matwin,Dunja Mladenic,2007-09-08 This book constitutes the refereed proceedings of the 18th European Conference on Machine Learning ECML 2007 held in Warsaw Poland September 2007 jointly with PKDD 2007 The 41 revised full papers and 37 revised short papers presented together with abstracts of four invited talks were carefully reviewed and selected from 592 abstracts submitted to both ECML and PKDD The papers present a wealth of new results in the area and address all current issues in machine learning **Machine Learning and Knowledge Discovery in Databases** Annalisa Appice,Pedro Pereira Rodrigues,Vítor Santos Costa,Carlos Soares,João Gama,Alípio Jorge,2015-08-28 The three volume set LNAI 9284 9285 and 9286 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2015 held in Porto Portugal in September 2015 The 131 papers presented in these proceedings were carefully reviewed and selected from a total of 483 submissions These include 89 research papers 11 industrial papers 14 nectar papers and 17 demo papers They were organized in topical sections named classification regression and supervised learning clustering and unsupervised learning data preprocessing data streams and online learning deep learning distance and metric learning large scale learning and big data matrix and tensor analysis pattern and sequence mining preference learning and label ranking probabilistic statistical and graphical approaches rich data and social and graphs Part III is structured in industrial track nectar track and demo track   Federated Learning Qiang Yang,Yang Liu,Yong Cheng,Yan

Kang,Tianjian Chen,Han Yu,2022-06-01 How is it possible to allow multiple data owners to collaboratively train and use a shared prediction model while keeping all the local training data private Traditional machine learning approaches need to combine all data at one location typically a data center which may very well violate the laws on user privacy and data confidentiality Today many parts of the world demand that technology companies treat user data carefully according to user privacy laws The European Union s General Data Protection Regulation GDPR is a prime example In this book we describe how federated machine learning addresses this problem with novel solutions combining distributed machine learning cryptography and security and incentive mechanism design based on economic principles and game theory We explain different types of privacy preserving machine learning solutions and their technological backgrounds and highlight some representative practical use cases We show how federated learning can become the foundation of next generation machine learning that caters to technological and societal needs for responsible AI development and application **Graph Representation Learning** William L. Hamilton,2022-06-01 Graph structured data is ubiquitous throughout the natural and social sciences from telecommunication networks to quantum chemistry Building relational inductive biases into deep learning architectures is crucial for creating systems that can learn reason and generalize from this kind of data Recent years have seen a surge in research on graph representation learning including techniques for deep graph embeddings generalizations of convolutional neural networks to graph structured data and neural message passing approaches inspired by belief propagation These advances in graph representation learning have led to new state of the art results in numerous domains including chemical synthesis 3D vision recommender systems question answering and social network analysis This book provides a synthesis and overview of graph representation learning It begins with a discussion of the goals of graph representation learning as well as key methodological foundations in graph theory and network analysis Following this the book introduces and reviews methods for learning node embeddings including random walk based methods and applications to knowledge graphs It then provides a technical synthesis and introduction to the highly successful graph neural network GNN formalism which has become a dominant and fast growing paradigm for deep learning with graph data The book concludes with a synthesis of recent advancements in deep generative models for graphs a nascent but quickly growing subset of graph representation learning **Lifelong Machine Learning** Zhiyuan Chaudhri,Bing Liu,2022-11-10 Lifelong Machine Learning or Lifelong Learning is an advanced machine learning paradigm that learns continuously accumulates the knowledge learned in previous tasks and uses it to help future learning In the process the learner becomes more and more knowledgeable and effective at learning This learning ability is one of the hallmarks of human intelligence However the current dominant machine learning paradigm learns in isolation given a training dataset it runs a machine learning algorithm on the dataset to produce a model It makes no attempt to retain the learned knowledge and use it in future learning Although this isolated learning paradigm has been very successful it requires a large number of training examples and is only suitable

for well defined and narrow tasks In comparison we humans can learn effectively with a few examples because we have accumulated so much knowledge in the past which enables us to learn with little data or effort Lifelong learning aims to achieve this capability As statistical machine learning matures it is time to make a major effort to break the isolated learning tradition and to study lifelong learning to bring machine learning to new heights Applications such as intelligent assistants chatbots and physical robots that interact with humans and systems in real life environments are also calling for such lifelong learning capabilities Without the ability to accumulate the learned knowledge and use it to learn more knowledge incrementally a system will probably never be truly intelligent This book serves as an introductory text and survey to lifelong learning **Transfer Learning for Multiagent Reinforcement Learning Systems** Felipe Leno da Silva,Anna Helena Reali Costa,2022-06-01 Learning to solve sequential decision making tasks is difficult Humans take years exploring the environment essentially in a random way until they are able to reason solve difficult tasks and collaborate with other humans towards a common goal Artificial Intelligent agents are like humans in this aspect Reinforcement Learning RL is a well known technique to train autonomous agents through interactions with the environment Unfortunately the learning process has a high sample complexity to infer an effective actuation policy especially when multiple agents are simultaneously actuating in the environment However previous knowledge can be leveraged to accelerate learning and enable solving harder tasks In the same way humans build skills and reuse them by relating different tasks RL agents might reuse knowledge from previously solved tasks and from the exchange of knowledge with other agents in the environment In fact virtually all of the most challenging tasks currently solved by RL rely on embedded knowledge reuse techniques such as Imitation Learning Learning from Demonstration and Curriculum Learning This book surveys the literature on knowledge reuse in multiagent RL The authors define a unifying taxonomy of state of the art solutions for reusing knowledge providing a comprehensive discussion of recent progress in the area In this book readers will find a comprehensive discussion of the many ways in which knowledge can be reused in multiagent sequential decision making tasks as well as in which scenarios each of the approaches is more efficient The authors also provide their view of the current low hanging fruit developments of the area as well as the still open big questions that could result in breakthrough developments Finally the book provides resources to researchers who intend to join this area or leverage those techniques including a list of conferences journals and implementation tools This book will be useful for a wide audience and will hopefully promote new dialogues across communities and novel developments in the area **Lifelong Machine Learning, Second Edition** Zhiyuan Chen,Bing Liu,2022-06-01 Lifelong Machine Learning Second Edition is an introduction to an advanced machine learning paradigm that continuously learns by accumulating past knowledge that it then uses in future learning and problem solving In contrast the current dominant machine learning paradigm learns in isolation given a training dataset it runs a machine learning algorithm on the dataset to produce a model that is then used in its intended application It makes no attempt to retain the learned

knowledge and use it in subsequent learning Unlike this isolated system humans learn effectively with only a few examples precisely because our learning is very knowledge driven the knowledge learned in the past helps us learn new things with little data or effort Lifelong learning aims to emulate this capability because without it an AI system cannot be considered truly intelligent Research in lifelong learning has developed significantly in the relatively short time since the first edition of this book was published The purpose of this second edition is to expand the definition of lifelong learning update the content of several chapters and add a new chapter about continual learning in deep neural networks which has been actively researched over the past two or three years A few chapters have also been reorganized to make each of them more coherent for the reader Moreover the authors want to propose a unified framework for the research area Currently there are several research topics in machine learning that are closely related to lifelong learning most notably multi task learning transfer learning and meta learning because they also employ the idea of knowledge sharing and transfer This book brings all these topics under one roof and discusses their similarities and differences Its goal is to introduce this emerging machine learning paradigm and present a comprehensive survey and review of the important research results and latest ideas in the area This book is thus suitable for students researchers and practitioners who are interested in machine learning data mining natural language processing or pattern recognition Lecturers can readily use the book for courses in any of these related fields

Adversarial Machine Learning Yevgeniy Vorobeychik,Murat Kantarcioglu,2022-05-31 The increasing abundance of large high quality datasets combined with significant technical advances over the last several decades have made machine learning into a major tool employed across a broad array of tasks including vision language finance and security However success has been accompanied with important new challenges many applications of machine learning are adversarial in nature Some are adversarial because they are safety critical such as autonomous driving An adversary in these applications can be a malicious party aimed at causing congestion or accidents or may even model unusual situations that expose vulnerabilities in the prediction engine Other applications are adversarial because their task and or the data they use are For example an important class of problems in security involves detection such as malware spam and intrusion detection The use of machine learning for detecting malicious entities creates an incentive among adversaries to evade detection by changing their behavior or the content of malicius objects they develop The field of adversarial machine learning has emerged to study vulnerabilities of machine learning approaches in adversarial settings and to develop techniques to make learning robust to adversarial manipulation This book provides a technical overview of this field After reviewing machine learning concepts and approaches as well as common use cases of these in adversarial settings we present a general categorization of attacks on machine learning We then address two major categories of attacks and associated defenses decision time attacks in which an adversary changes the nature of instances seen by a learned model at the time of prediction in order to cause errors and poisoning or training time attacks in which the actual training dataset is maliciously modified In our final chapter devoted to

technical content we discuss recent techniques for attacks on deep learning as well as approaches for improving robustness of deep neural networks We conclude with a discussion of several important issues in the area of adversarial learning that in our view warrant further research Given the increasing interest in the area of adversarial machine learning we hope this book provides readers with the tools necessary to successfully engage in research and practice of machine learning in adversarial settings   Positive Unlabeled Learning Kristen Jaskie,Andreas Spanias,2022-04-20 Machine learning and artificial intelligence AI are powerful tools that create predictive models extract information and help make complex decisions They do this by examining an enormous quantity of labeled training data to find patterns too complex for human observation However in many real world applications well labeled data can be difficult expensive or even impossible to obtain In some cases such as when identifying rare objects like new archeological sites or secret enemy military facilities in satellite images acquiring labels could require months of trained human observers at incredible expense Other times as when attempting to predict disease infection during a pandemic such as COVID 19 reliable true labels may be nearly impossible to obtain early on due to lack of testing equipment or other factors In that scenario identifying even a small amount of truly negative data may be impossible due to the high false negative rate of available tests In such problems it is possible to label a small subset of data as belonging to the class of interest though it is impractical to manually label all data not of interest We are left with a small set of positive labeled data and a large set of unknown and unlabeled data Readers will explore this Positive and Unlabeled learning PU learning problem in depth The book rigorously defines the PU learning problem discusses several common assumptions that are frequently made about the problem and their implications and considers how to evaluate solutions for this problem before describing several of the most popular algorithms to solve this problem It explores several uses for PU learning including applications in biological medical business security and signal processing This book also provides high level summaries of several related learning problems such as one class classification anomaly detection and noisy learning and their relation to PU learning   Learning and Decision-Making from Rank Data Lirong Xia,2022-06-01 The ubiquitous challenge of learning and decision making from rank data arises in situations where intelligent systems collect preference and behavior data from humans learn from the data and then use the data to help humans make efficient effective and timely decisions Often such data are represented by rankings This book surveys some recent progress toward addressing the challenge from the considerations of statistics computation and socio economics We will cover classical statistical models for rank data including random utility models distance based models and mixture models We will discuss and compare classical and state of the art algorithms such as algorithms based on Minorize Majorization MM Expectation Maximization EM Generalized Method of Moments GMM rank breaking and tensor decomposition We will also introduce principled Bayesian preference elicitation frameworks for collecting rank data Finally we will examine socio economic aspects of statistically desirable decision making mechanisms such as Bayesian estimators

This book can be useful in three ways 1 for theoreticians in statistics and machine learning to better understand the considerations and caveats of learning from rank data compared to learning from other types of data especially cardinal data 2 for practitioners to apply algorithms covered by the book for sampling learning and aggregation and 3 as a textbook for graduate students or advanced undergraduate students to learn about the field This book requires that the reader has basic knowledge in probability statistics and algorithms Knowledge in social choice would also help but is not required

  Applying Reinforcement Learning on Real-World Data with Practical Examples in Python Philip Osborne,Kajal Singh,Matthew E. Taylor,2022-05-20 Reinforcement learning is a powerful tool in artificial intelligence in which virtual or physical agents learn to optimize their decision making to achieve long term goals In some cases this machine learning approach can save programmers time outperform existing controllers reach super human performance and continually adapt to changing conditions It has shown human level performance on a number of tasks REF and the methodology for automation in robotics and self driving cars REF This book argues that these successes show reinforcement learning can be adopted successfully in many different situations including robot control stock trading supply chain optimization and plant control However reinforcement learning has traditionally been limited to applications in virtual environments or simulations in which the setup is already provided Furthermore experimentation may be completed for an almost limitless number of attempts risk free In many real life tasks applying reinforcement learning is not as simple as 1 data is not in the correct form for reinforcement learning 2 data is scarce and 3 automation has limitations in the real world Therefore this book is written to help academics domain specialists and data enthusiast alike to understand the basic principles of applying reinforcement learning to real world problems This is achieved by focusing on the process of taking practical examples and modeling standard data into the correct form required to then apply basic agents To further assist readers gain a deep and grounded understanding of the approaches the book shows hand calculated examples in full and then how this can be achieved in a more automated manner with code For decision makers who are interested in reinforcement learning as a solution but are not proficient the book includes simple non technical examples in the introduction and case studies section These provide context of what reinforcement learning offer but also the challenges and risks associated with applying it in practice Specifically these sections illustrate the differences between reinforcement learning and other machine learning approaches as well as how well known companies have found success using the approach to their problems   **Neural Information Processing** Sabri Arik,Tingwen Huang,Weng Kin Lai,Qingshan Liu,2015-11-21 The four volume set LNCS 9489 LNCS 9490 LNCS 9491 and LNCS 9492 constitutes the proceedings of the 22nd International Conference on Neural Information Processing ICONIP 2015 held in Istanbul Turkey in November 2015 The 231 full papers presented were carefully reviewed and selected from 375 submissions The 4 volumes represent topical sections containing articles on Learning Algorithms and Classification Systems Artificial Intelligence and Neural Networks Theory Design and Applications Image and Signal

Processing and Intelligent Social Networks   **Similarity-Based Pattern Recognition** Marcello Pelillo,Edwin R. Hancock,2011-09-21 This book constitutes the proceedings of the First International Workshop on Similarity Based Pattern Recognition SIMBAD 2011 held in Venice Italy in September 2011 The 16 full papers and 7 poster papers presented were carefully reviewed and selected from 35 submissions The contributions are organized in topical sections on dissimilarity characterization and analysis generative models of similarity data graph based and relational models clustering and dissimilarity data applications spectral methods and embedding   **Introduction to Symbolic Plan and Goal Recognition** Reuth Mirsky,Sarah Keren,Christopher Geib,2022-05-31 Plan recognition activity recognition and goal recognition all involve making inferences about other actors based on observations of their interactions with the environment and other agents This synergistic area of research combines unites and makes use of techniques and research from a wide range of areas including user modeling machine vision automated planning intelligent user interfaces human computer interaction autonomous and multi agent systems natural language understanding and machine learning It plays a crucial role in a wide variety of applications including assistive technology software assistants computer and network security human robot collaboration natural language processing video games and many more This wide range of applications and disciplines has produced a wealth of ideas models tools and results in the recognition literature However it has also contributed to fragmentation in the field with researchers publishing relevant results in a wide spectrum of journals and conferences This book seeks to address this fragmentation by providing a high level introduction and historical overview of the plan and goal recognition literature It provides a description of the core elements that comprise these recognition problems and practical advice for modeling them In particular we define and distinguish the different recognition tasks We formalize the major approaches to modeling these problems using a single motivating example Finally we describe a number of state of the art systems and their extensions future challenges and some potential applications   *Network Embedding* Cheng Yang,Zhiyuan Liu,Cunchao Tu,Chuan Shi,Maosong Sun,2022-05-31 heterogeneous graphs Further the book introduces different applications of NE such as recommendation and information diffusion prediction Finally the book concludes the methods and applications and looks forward to the future directions

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