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George A. Tsihrintzis

Machine Learning Paradigms

Applications in Recommender Systems

Machine Learning Paradigms Applications In Recommender Systems Intelligent Systems Reference Library

Laszlo Hunyadi,István Szekrényes

Machine Learning Paradigms Applications In Recommender Systems Intelligent Systems Reference Library:

Machine Learning Paradigms Dionisios N. Sotiropoulos,George A. Tsihrintzis,2016-10-26 The topic of this monograph falls within the so called biologically motivated computing paradigm in which biology provides the source of models and inspiration towards the development of computational intelligence and machine learning systems Specifically artificial immune systems are presented as a valid metaphor towards the creation of abstract and high level representations of biological components or functions that lay the foundations for an alternative machine learning paradigm Therefore focus is given on addressing the primary problems of Pattern Recognition by developing Artificial Immune System based machine learning algorithms for the problems of Clustering Classification and One Class Classification Pattern Classification in particular is studied within the context of the Class Imbalance Problem The main source of inspiration stems from the fact that the Adaptive Immune System constitutes one of the most sophisticated biological systems that is exceptionally evolved in order to continuously address an extremely unbalanced pattern classification problem namely the self non self discrimination process The experimental results presented in this monograph involve a wide range of degenerate binary classification problems where the minority class of interest is to be recognized against the vast volume of the majority class of negative patterns In this context Artificial Immune Systems are utilized for the development of personalized software as the core mechanism behind the implementation of Recommender Systems The book will be useful to researchers practitioners and graduate students dealing with Pattern Recognition and Machine Learning and their applications in Personalized Software and Recommender Systems It is intended for both the expert researcher in these fields as well as for the general reader in the field of Computational Intelligence and more generally Computer Science who wishes to learn more about the field of Intelligent Computing Systems and its applications An extensive list of bibliographic references at the end of each chapter guides the reader to probe further into application area of interest to him her **Machine Learning Paradigms** Aristomenis S. Lampropoulos,George A. Tsihrintzis,2015-06-13 This timely book presents Applications in Recommender Systems which are making recommendations using machine learning algorithms trained via examples of content the user likes or dislikes Recommender systems built on the assumption of availability of both positive and negative examples do not perform well when negative examples are rare It is exactly this problem that the authors address in the monograph at hand Specifically the books approach is based on one class classification methodologies that have been appearing in recent machine learning research The blending of recommender systems and one class classification provides a new very fertile field for research innovation and development with potential applications in big data as well as sparse data problems The book will be useful to researchers practitioners and graduate students dealing with problems of extensive and complex data It is intended for both the expert researcher in the fields of Pattern Recognition Machine Learning and Recommender Systems as well as for the general reader in the fields of Applied and Computer Science who wishes to learn more about the

emerging discipline of Recommender Systems and their applications Finally the book provides an extended list of bibliographic references which covers the relevant literature completely   Fusion of Machine Learning Paradigms Ioannis K. Hatzilygeroudis,George A. Tsihrintzis,Lakhmi C. Jain,2023-02-06 This book aims at updating the relevant computer science related research communities including professors researchers scientists engineers and students as well as the general reader from other disciplines on the most recent advances in applications of methods based on Fusing Machine Learning Paradigms Integrated or Hybrid Machine Learning methodologies combine together two or more Machine Learning approaches achieving higher performance and better efficiency when compared to those of their constituent components and promising major impact in science technology and the society The book consists of an editorial note and an additional eight chapters and is organized into two parts namely i Recent Application Areas of Fusion of Machine Learning Paradigms and ii Applications that can clearly benefit from Fusion of Machine Learning Paradigms This book is directed toward professors researchers scientists engineers and students in Machine Learning related disciplines as the hybridism presented and the case studies described provide researchers with successful approaches and initiatives to efficiently address complex classification or regression problems It is also directed toward readers who come from other disciplines including Engineering Medicine or Education Sciences and are interested in becoming versed in some of the most recent Machine Learning based technologies Extensive lists of bibliographic references at the end of each chapter guide the readers to probe further into the application areas of interest to them   Machine Learning Paradigms George A. Tsihrintzis,Dionisios N. Sotiropoulos,Lakhmi C. Jain,2018-07-03 This book explores some of the emerging scientific and technological areas in which the need for data analytics arises and is likely to play a significant role in the years to come At the dawn of the 4th Industrial Revolution data analytics is emerging as a force that drives towards dramatic changes in our daily lives the workplace and human relationships Synergies between physical digital biological and energy sciences and technologies brought together by non traditional data collection and analysis drive the digital economy at all levels and offer new previously unavailable opportunities The need for data analytics arises in most modern scientific disciplines including engineering natural computer and information sciences economics business commerce environment healthcare and life sciences Coming as the third volume under the general title MACHINE LEARNING PARADIGMS the book includes an editorial note Chapter 1 and an additional 12 chapters and is divided into five parts 1 Data Analytics in the Medical Biological and Signal Sciences 2 Data Analytics in Social Studies and Social Interactions 3 Data Analytics in Traffic Computer and Power Networks 4 Data Analytics for Digital Forensics and 5 Theoretical Advances and Tools for Data Analytics This research book is intended for both experts researchers in the field of data analytics and readers working in the fields of artificial and computational intelligence as well as computer science in general who wish to learn more about the field of data analytics and its applications An extensive list of bibliographic references at the end of each chapter guides readers to probe further into the application areas of interest to

them   Machine Learning Paradigms Maria Virvou,Efthimios Alepis,George A. Tsihrintzis,Lakhmi C. Jain,2019-03-16 This book presents recent machine learning paradigms and advances in learning analytics an emerging research discipline concerned with the collection advanced processing and extraction of useful information from both educators and learners data with the goal of improving education and learning systems In this context internationally respected researchers present various aspects of learning analytics and selected application areas including Using learning analytics to measure student engagement to quantify the learning experience and to facilitate self regulation Using learning analytics to predict student performance Using learning analytics to create learning materials and educational courses and Using learning analytics as a tool to support learners and educators in synchronous and asynchronous eLearning The book offers a valuable asset for professors researchers scientists engineers and students of all disciplines Extensive bibliographies at the end of each chapter guide readers to probe further into their application areas of interest   Explainable AI: Foundations, Methodologies and Applications Mayuri Mehta,Vasile Palade,Indranath Chatterjee,2022-10-19 This book presents an overview and several applications of explainable artificial intelligence XAI It covers different aspects related to explainable artificial intelligence such as the need to make the AI models interpretable how black box machine deep learning models can be understood using various XAI methods different evaluation metrics for XAI human centered explainable AI and applications of explainable AI in health care security surveillance transportation among other areas The book is suitable for students and academics aiming to build up their background on explainable AI and can guide them in making machine deep learning models more transparent The book can be used as a reference book for teaching a graduate course on artificial intelligence applied machine learning or neural networks Researchers working in the area of AI can use this book to discover the recent developments in XAI Besides its use in academia this book could be used by practitioners in AI industries healthcare industries medicine autonomous vehicles and security surveillance who would like to develop AI techniques and applications with explanations **Visual Knowledge Discovery and Machine Learning** Boris Kovalerchuk,2018-01-17 This book combines the advantages of high dimensional data visualization and machine learning in the context of identifying complex n D data patterns It vastly expands the class of reversible lossless 2 D and 3 D visualization methods which preserve the n D information This class of visual representations called the General Lines Coordinates GLCs is accompanied by a set of algorithms for n D data classification clustering dimension reduction and Pareto optimization The mathematical and theoretical analyses and methodology of GLC are included and the usefulness of this new approach is demonstrated in multiple case studies These include the Challenger disaster world hunger data health monitoring image processing text classification market forecasts for a currency exchange rate computer aided medical diagnostics and others As such the book offers a unique resource for students researchers and practitioners in the emerging field of Data Science   The Temporal Structure of Multimodal Communication Laszlo Hunyadi,István Szekrényes,2019-07-24 The general focus of this book is on

multimodal communication which captures the temporal patterns of behavior in various dialogue settings After an overview of current theoretical models of verbal and nonverbal communication cues it presents studies on a range of related topics paraverbal behavior patterns in the classroom setting a proposed optimal methodology for conversational analysis a study of time and mood at work an experiment on the dynamics of multimodal interaction from the observer s perspective formal cues of uncertainty in conversation how machines can know we understand them and detecting topic changes using neural network techniques A joint work bringing together psychologists communication scientists information scientists and linguists the book will be of interest to those working on a wide range of applications from industry to home and from health to security with the main goals of revealing embedding and implementing a rich spectrum of information on human behavior

An Introduction to Computing with Fuzzy Sets Witold Pedrycz,2020-08-11 This book provides concise yet thorough coverage of the fundamentals and technology of fuzzy sets Readers will find a lucid and systematic introduction to the essential concepts of fuzzy set based information granules their processing and detailed algorithms Timely topics and recent advances in fuzzy modeling and its principles neurocomputing fuzzy set estimation granulation degranulation and fuzzy sets of higher type and order are discussed In turn a wealth of examples case studies problems and motivating arguments spread throughout the text and linked with various areas of artificial intelligence will help readers acquire a solid working knowledge Given the book s well balanced combination of the theory and applied facets of fuzzy sets it will appeal to a broad readership in both academe and industry It is also ideally suited as a textbook for graduate and undergraduate students in science engineering and operations research   Handbook of Artificial Intelligence in Healthcare Chee-Peng Lim,Ashlesha Vaidya,Kiran Jain,Virag U. Mahorkar,Lakhmi C. Jain,2021-09-17 This handbook on Artificial Intelligence AI in healthcare consists of two volumes The first volume is dedicated to advances and applications of AI methodologies in specific healthcare problems while the second volume is concerned with general practicality issues and challenges and future prospects in the healthcare context The advent of digital and computing technologies has created a surge in the development of AI methodologies and their penetration to a variety of activities in our daily lives in recent years Indeed researchers and practitioners have designed and developed a variety of AI based systems to help advance health and well being of humans In this first volume we present a number of latest studies in AI based tools and techniques from two broad categories viz medical signal image and video processing as well as healthcare information and data analytics in Part 1 and Part 2 respectively These selected studies offer readers practical knowledge and understanding pertaining to the recent advances and applications of AI in the healthcare sector   *Recent Advances in Blockchain Technology* Sandeep Kumar Panda,Vaibhav Mishra,Sujata Priyambada Dash,Ashis Kumar Pani,2023-02-11 This book provides insights on blockchain technology and its applications in real world business supply chain health care education HRM retail logistics and transport industries This book grants a comprehensive understanding of how this technology is functioning within modern real world

applications and how it can influence the future of the real world applications in industry The chapters cover the case study applications of blockchain benefits and challenges disruptive innovations in real world applications privacy and security concerns and the recent trends of blockchain in real world applications It is ideally intended for marketers advertisers brand managers executives managers IT specialists and consultants researchers businesses practitioners stakeholders academicians and students interested in blockchain technology and its role in supply chain health care education HRM retail logistics and transport industries **Advances in Quantum Inspired Artificial Intelligence** Satchidananda Dehuri,Monalisa Jena,Sarat Chandra Nayak,Margarita N. Favorskaya,Smaranda Belciug,2025-06-02 This book advances the artificial intelligence techniques by strongly inspired from quantum computing Quantum computing QC rooted in the mysterious principles of quantum mechanics has fascinated scientists researchers and visionaries for a long time Its potential lies in changing how we compute moving from classical bits to quantum bits qubits and unlocking incredible processing capabilities At the same time artificial intelligence AI has been on a trajectory of rapid advancement with deep learning becoming proficient at tasks that were once deemed impossible At this juncture integrating these two fields through various means can play a pivotal role to bring a technological revolution *Creating Digitally* Anthony L. Brooks,2023-12-02 This book of 21 chapters shares endeavors associated to the human trait of creative expression within across and between digital media in wide ranging contexts making the contents perfect as a course study book uptake within related educations Globally located chapter authors share their comprehensive artisan perspectives from works associated with regional cultures diversities of interpretations and widespread scopes of meanings Contents illustrate contemporary works reflecting thought provoking comprehensions functions and purposes posit as contributing toward shifting of boundaries within the field Original to this approach is the reflective offerings on creating digitally beyond typical psychological analysis rapportage The book s general scope and key uses are thus to contribute to scholarly discussions toward informing future projects by having an intended wide readership including from within educations to artisans and wider interested public Chapter 7 isavailable open access under a Creative Commons Attribution 4 0 International License via link springer com **Digital Transformation in Healthcare Systems for Patient Care** Ajita Jain,Chee Peng Lim,Lakhmi C. Jain,2025-09-12 This book presents innovative solutions for disease management elderly care rehabilitation surgical decision making and health data security This book explores the transformative impact of Artificial Intelligence AI machine learning and smart technologies on modern healthcare Addressing wearable devices digital twins assistive technologies and ethical AI implementation the book highlights how digital advancements enhance diagnostics treatment personalisation and patient outcomes With contributions from leading experts this collection serves as a vital reference for healthcare professionals researchers and policymakers shaping the future of patient centred data driven medicine *Logic: Reference Book for Computer Scientists* Lech T. Polkowski,2023-10-03 The book gives all interested in computer science a deep review of relevant aspects of logic In

its scope are classical and non classical logics The content will be valid as well for those interested in linguistic philosophy and many other areas of research both in humane and technical branches of science as logic permeates all genuine realms of science The book contains a substantial part of classical results in logic like those by G del Tarski Church and Rosser as well as later developments like many valued logics logics for knowledge engineering first order logics plus inductive definitions The exposition is rigorous yet without unnecessary abstractionism so it should be accessible to readers from many disciplines of science Each chapter contains a problem section and problems are borrowed from research publications which allows for passing additional information and it allows readers to test their skills Extensive bibliography of 270 positions directs readers to research works of importance **Principles of Internet of Things (IoT) Ecosystem: Insight Paradigm** Sheng-Lung Peng,Souvik Pal,Lianfen Huang,2019-11-13 This book discusses the evolution of future generation technologies through the Internet of things bringing together all the related technologies on a single platform to offer valuable insights for undergraduate and postgraduate students researchers academics and industry practitioners The book uses data network engineering and intelligent decision support system by design principles to design a reliable IoT enabled ecosystem and to implement cyber physical pervasive infrastructure solutions It takes readers on a journey that begins with understanding the insight paradigm of IoT enabled technologies and how it can be applied It walks readers through engaging with real time challenges and building a safe infrastructure for IoT based future generation technologies The book helps researchers and practitioners to understand the design architecture through IoT and the state of the art in IoT countermeasures It also highlights the differences between heterogeneous platforms in IoT enabled infrastructure and traditional ad hoc or infrastructural networks and provides a comprehensive discussion on functional frameworks for IoT object identification IoT domain model RFID technology wearable sensors WBAN IoT semantics knowledge extraction and security and privacy issues in IoT based ecosystems Written by leading international experts it explores IoT enabled insight paradigms which are utilized for the future benefit of humans It also includes references to numerous works Divided into stand alone chapters this highly readable book is intended for specialists researchers graduate students designers experts and engineers involved in research on healthcare related issues Decision Making Under Uncertainty and Reinforcement Learning Christos Dimitrakakis,Ronald Ortner,2022-12-02 This book presents recent research in decision making under uncertainty in particular reinforcement learning and learning with expert advice The core elements of decision theory Markov decision processes and reinforcement learning have not been previously collected in a concise volume Our aim with this book was to provide a solid theoretical foundation with elementary proofs of the most important theorems in the field all collected in one place and not typically found in introductory textbooks This book is addressed to graduate students that are interested in statistical decision making under uncertainty and the foundations of reinforcement learning **Data Analytics in e-Learning: Approaches and Applications** Marian Cristian Mihăescu,2022-03-22 This book focuses on research and

development aspects of building data analytics workflows that address various challenges of e learning applications This book represents a guideline for building a data analysis workflow from scratch Each chapter presents a step of the entire workflow starting from an available dataset and continuing with building interpretable models enhancing models and tackling aspects of evaluating engagement and usability The related work shows that many papers have focused on machine learning usage and advancement within e learning systems However limited discussions have been found on presenting a detailed complete roadmap from the raw dataset up to the engagement and usability issues Practical examples and guidelines are provided for designing and implementing new algorithms that address specific problems or functionalities This roadmap represents a potential resource for various advances of researchers and practitioners in educational data mining and learning analytics *Intelligent Decision Support Systems—A Journey to Smarter Healthcare* Smaranda Belciug,Florin Gorunescu,2019-03-20 The goal of this book is to provide in a friendly and refreshing manner both theoretical concepts and practical techniques for the important and exciting field of Artificial Intelligence that can be directly applied to real world healthcare problems Healthcare the final frontier Lately it seems like Pandora opened the box and evil was released into the world Fortunately there was one thing left in the box hope In recent decades hope has been increasingly represented by Intelligent Decision Support Systems Their continuing mission to explore strange new diseases to seek out new treatments and drugs and to intelligently manage healthcare resources and patients Hence this book is designed for all those who wish to learn how to explore analyze and find new solutions for the most challenging domain of all time healthcare *Data Analytics for Smart Robotics and Its Applications* Rohit Sharma,Gwanggil Jeon,2025-08-03 By offering a deep dive into the integration of robotics and IoT this book provides actionable insights for developing autonomous systems that address complex real world challenges in sectors such as healthcare agriculture education manufacturing and smart cities It explores practical applications of the Internet of Robotic Things IoRT enabling readers to leverage its transformative potential to create smarter more efficient environments The book introduces a fresh perspective by combining the fields of robotics and IoT into a cohesive framework underpinned by innovations in edge computing cloud robotics and Industry 4 0 Unlike traditional approaches it emphasizes the convergence of these technologies to foster novel solutions for remote automation and data driven intelligence Covering topics like data management machine learning Hadoop and IoRT applications this book provides a comprehensive scope that balances theoretical foundations with real world implementations It is tailored for academic researchers practitioners and educators aiming to stay at the forefront of IoRT innovation and its practical deployment With its unique approach and broad applicability this book is an essential guide for exploring cutting edge IoRT technologies overcoming integration challenges and inspiring the development of advanced systems that redefine how technology interacts with the physical world

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