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ECAI 2020 Computer Vision – ECCV 2020 Assessing Information Processing and Online Reasoning as a Prerequisite for Learning in Higher Education Embedded Machine Learning for Cyber-Physical, IoT, and Edge Computing Machine Learning and Knowledge Discovery in Databases: Research Track Handbook of Reinforcement Learning and Control Careers For Dummies Searches for the Supersymmetric Partner of the Top Quark, Dark Matter and Dark Energy at the ATLAS Experiment Optimization and Machine Learning Advances in Neural Networks – ISNN 2019 Learning and Intelligent Optimization Deep Reinforcement Learning Artificial Intelligence in Mechatronics and Civil Engineering Learning to Play The Alignment Problem: Machine Learning and Human Values Online Searching Binary Representation Learning on Visual Images Probabilistic Machine Learning Learning and Intelligent Optimization Ryan's Retina Machine Learning, Optimization, and Data Science Current Advances in Soft Robotics: Best Papers From RoboSoft 2018 Soft Computing and Signal Processing Federated Learning Research Anthology on Social Media's Influence on Government, Politics, and Social Movements Machine Intelligence and Data Science Applications Intelligent Systems in Industrial Applications Active Learning to Minimize the Possible Risk of Future Epidemics Shaping the Future of Education, Communication and Technology Deep Learning and its Applications using Python Machine Learning for Cyber Security ECEL 2019 18th European Conference on e-Learning Perspectives on Learning Analytics for Maximizing Student Outcomes Augmenting Neurological Disorder Prediction and Rehabilitation Using Artificial Intelligence Recent Trends in Learning From Data Hands-On Machine Learning with R Diversifying Learner Experience Database Systems for Advanced Applications Tackling Precarious Work Research Anthology on Machine Learning Techniques, Methods, and Applications

ECAI 2020 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 2020 2020-11-15 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
Assessing Information Processing and Online Reasoning as a Prerequisite for Learning in Higher Education 2022-10-06 this book presents recent advances towards the goal of enabling efficient implementation of machine learning models on resource constrained systems covering different application domains the focus is on presenting interesting and new use cases of applying machine learning to innovative application domains exploring the efficient hardware design of efficient machine learning accelerators memory optimization techniques illustrating model compression and neural architecture search techniques for energy efficient and fast execution on resource constrained hardware platforms and understanding hardware software codesign techniques for achieving even greater energy reliability and performance benefits discusses efficient implementation of machine learning in embedded cps iot and edge computing offers comprehensive coverage of hardware design software design and hardware software co design and co optimization describes real

applications to demonstrate how embedded cps iot and edge applications benefit from machine learning

Embedded Machine Learning for Cyber-Physical, IoT, and Edge Computing

2023-10-09 the multi volume set lnai 14169 until 14175 constitutes the refereed proceedings of the european conference on machine learning and knowledge discovery in databases ecml pkdd 2023 which took place in turin italy in september 2023 the 196 papers were selected from the 829 submissions for the research track and 58 papers were selected from the 239 submissions for the applied data science track the volumes are organized in topical sections as follows part i active learning adversarial machine learning anomaly detection applications bayesian methods causality clustering part ii computer vision deep learning fairness federated learning few shot learning generative models graph contrastive learning part iii graph neural networks graphs interpretability knowledge graphs large scale learning part iv natural language processing neuro symbolic learning optimization recommender systems reinforcement learning representation learning part v robustness time series transfer and multitask learning part vi applied machine learning computational social sciences finance hardware and systems healthcare bioinformatics human computer interaction recommendation and information retrieval part vii sustainability climate and environment transportation urban planning demo

Machine Learning and Knowledge Discovery in Databases: Research Track

2023-09-17 this handbook presents state of the art research in reinforcement learning focusing on its applications in the control and game theory of dynamic systems and future directions for related research and technology the contributions gathered in this book deal with challenges faced when using learning and adaptation methods to solve academic and industrial problems such as optimization in dynamic environments with single and multiple agents convergence and performance analysis and online implementation they explore means by which these difficulties can be solved and cover a wide range of related topics including deep learning artificial intelligence applications of game theory mixed modality learning and multi agent reinforcement learning practicing engineers and scholars in the field of machine learning game theory and autonomous control will find the handbook of reinforcement learning and control to be thought provoking instructive and informative

Handbook of Reinforcement Learning and Control 2021-06-23 feeling stuck find out how to work toward the career of your dreams if you re slogging through your days in a boring or unrewarding job it may be time to make a big change careers for dummies is a comprehensive career guide from a top career coach and counselor that will help you jump start your career and your life dive in to learn more about career opportunities with a plethora of job descriptions and the certifications degrees and continuing education that can help you build the career you ve always wanted whether you re entering the workforce for the first time or a career oriented person who needs or wants a change this book has valuable information that can help you achieve your career goals find out how you can build your personal brand to become more attractive to potential employers how to create a plan to get from here to there

on your career path and access videos and checklists that help to drive home all the key points if you re not happy in your day to day work now there s no better time than the present to work towards change get inspired by learning about a wide variety of careers create a path forward for a new or better career that will be rewarding and fun determine how to build your personal brand to enhance your career opportunities get tips from a top career coach to help you plan and implement a strategy for a more rewarding work life careers for dummies is the complete resource for those looking to enhance their careers or embark on a more rewarding work experience

Careers For Dummies 2018-05-18 astrophysical observations implying the existence of dark matter and dark energy which are not described by the standard model sm of particle physics have led to extensions of the sm predicting new particles that could be directly produced at the large hadron collider lhc at cern based on 2015 and 2016 atlas proton proton collision data this thesis presents searches for the supersymmetric partner of the top quark for dark matter and for darkenergy in signatures with jets and missing transverse energy muon detection is key to some of the most important lhc physics results including the discovery of the higgs boson and the measurement of its properties the efficiency with which muons can be detected with the atlas detector is measured using z boson decays the performance of high precision monitored drift tube muon chambers under background rates similar to the ones expected for the high luminosity lhc is studied

Searches for the Supersymmetric Partner of the Top Quark, Dark Matter and Dark Energy at the ATLAS Experiment 2019-09-13 machine learning and optimization techniques are revolutionizing our world other types of information technology have not progressed as rapidly in recent years in terms of real impact the aim of this book is to present some of the innovative techniques in the field of optimization and machine learning and to demonstrate how to apply them in the fields of engineering optimization and machine learning presents modern advances in the selection configuration and engineering of algorithms that rely on machine learning and optimization the first part of the book is dedicated to applications where optimization plays a major role and the second part describes and implements several applications that are mainly based on machine learning techniques the methods addressed in these chapters are compared against their competitors and their effectiveness in their chosen field of application is illustrated

Optimization and Machine Learning 2022-04-19 this two volume set lncs 11554 and 11555 constitutes the refereed proceedings of the 16th international symposium on neural networks isnn 2019 held in moscow russia in july 2019 the 111 papers presented in the two volumes were carefully reviewed and selected from numerous submissions the papers were organized in topical sections named learning system graph model and adversarial learning time series analysis dynamic prediction and uncertain estimation model optimization bayesian learning and clustering game theory stability analysis and control method signal processing industrial application and data generation image recognition scene understanding and video analysis bio signal biomedical engineering and hardware

Advances in Neural Networks – ISNN 2019 2019-06-26 this book constitutes the

thoroughly refereed pchania crete greece in may 2019 the 38 full papers presented have been carefully reviewed and selected from 52 submissions the papers focus on advancedresearch developments in such interconnected fields as mathematical programming global optimization machine learning and artificial intelligence and describe advanced ideas technologies methods and applications in optimization and machine learning

Learning and Intelligent Optimization 2020-01-21 deep reinforcement learning has attracted considerable attention recently impressive results have been achieved in such diverse fields as autonomous driving game playing molecular recombination and robotics in all these fields computer programs have taught themselves to understand problems that were previously considered to be very difficult in the game of go the program alphago has even learned to outmatch three of the world s leading players deep reinforcement learning takes its inspiration from the fields of biology and psychology biology has inspired the creation of artificial neural networks and deep learning while psychology studies how animals and humans learn and how subjects desired behavior can be reinforced with positive and negative stimuli when we see how reinforcement learning teaches a simulated robot to walk we are reminded of how children learn through playful exploration techniques that are inspired by biology and psychology work amazingly well in computers animal behavior and the structure of the brain as new blueprints for science and engineering in fact computers truly seem to possess aspects of human behavior as such this field goes to the heart of the dream of artificial intelligence these research advances have not gone unnoticed by educators many universities have begun offering courses on the subject of deep reinforcement learning the aim of this book is to provide an overview of the field at the proper level of detail for a graduate course in artificial intelligence it covers the complete field from the basic algorithms of deep q learning to advanced topics such as multi agent reinforcement learning and meta learning

Deep Reinforcement Learning 2022-06-10 recent studies highlight the application of artificial intelligence machine learning and simulation techniques in engineering this book covers the successful implementation of different intelligent techniques in various areas of engineering focusing on common areas between mechatronics and civil engineering the power of artificial intelligence and machine learning techniques in solving some examples of real life problems in engineering is highlighted in this book the implementation process to design the optimum intelligent models is discussed in this book

Artificial Intelligence in Mechatronics and Civil Engineering 2023-02-15 in this textbook the author takes as inspiration recent breakthroughs in game playing to explain how and why deep reinforcement learning works in particular he shows why two person games of tactics and strategy fascinate scientists programmers and game enthusiasts and unite them in a common goal to create artificial intelligence ai after an introduction to the core concepts environment and communities of intelligence and games the book is organized into chapters on reinforcement learning heuristic planning adaptive sampling function approximation and self play the author takes a hands on approach throughout with python code examples and exercises that help

the reader understand how ai learns to play he also supports the main text with detailed pointers to online machine learning frameworks technical details for alphago notes on how to play and program go and chess and a comprehensive bibliography the content is class tested and suitable for advanced undergraduate and graduate courses on artificial intelligence and games it s also appropriate for self study by professionals engaged with applications of machine learning and with games development finally it s valuable for any reader engaged with the philosophical implications of artificial and general intelligence games represent a modern turing test of the power and limitations of ai

Learning to Play 2020-12-23 a jaw dropping exploration of everything that goes wrong when we build ai systems and the movement to fix them today s machine learning systems trained by data are so effective that we ve invited them to see and hear for us and to make decisions on our behalf but alarm bells are ringing recent years have seen an eruption of concern as the field of machine learning advances when the systems we attempt to teach will not in the end do what we want or what we expect ethical and potentially existential risks emerge researchers call this the alignment problem systems cull résumés until years later we discover that they have inherent gender biases algorithms decide bail and parole and appear to assess black and white defendants differently we can no longer assume that our mortgage application or even our medical tests will be seen by human eyes and as autonomous vehicles share our streets we are increasingly putting our lives in their hands the mathematical and computational models driving these changes range in complexity from something that can fit on a spreadsheet to a complex system that might credibly be called artificial intelligence they are steadily replacing both human judgment and explicitly programmed software in best selling author brian christian s riveting account we meet the alignment problem s first responders and learn their ambitious plan to solve it before our hands are completely off the wheel in a masterful blend of history and on the ground reporting christian traces the explosive growth in the field of machine learning and surveys its current sprawling frontier readers encounter a discipline finding its legs amid exhilarating and sometimes terrifying progress whether they and we succeed or fail in solving the alignment problem will be a defining human story the alignment problem offers an unflinching reckoning with humanity s biases and blind spots our own unstated assumptions and often contradictory goals a dazzlingly interdisciplinary work it takes a hard look not only at our technology but at our culture and finds a story by turns harrowing and hopeful

The Alignment Problem: Machine Learning and Human Values 2020-10-06 online searching puts aspiring librarians working in all types of institutions on the fast track to becoming expert searchers the intermediaries who unite information users with trusted sources that satisfy their information needs

Online Searching 2023 a detailed and up to date introduction to machine learning presented through the unifying lens of probabilistic modeling and bayesian decision theory this book offers a detailed and up to date introduction to machine learning including deep learning through the unifying lens of probabilistic modeling and bayesian decision theory the book covers mathematical background including linear

algebra and optimization basic supervised learning including linear and logistic regression and deep neural networks as well as more advanced topics including transfer learning and unsupervised learning end of chapter exercises allow students to apply what they have learned and an appendix covers notation probabilistic machine learning grew out of the author s 2012 book machine learning a probabilistic perspective more than just a simple update this is a completely new book that reflects the dramatic developments in the field since 2012 most notably deep learning in addition the new book is accompanied by online python code using libraries such as scikit learn jax pytorch and tensorflow which can be used to reproduce nearly all the figures this code can be run inside a web browser using cloud based notebooks and provides a practical complement to the theoretical topics discussed in the book this introductory text will be followed by a sequel that covers more advanced topics taking the same probabilistic approach

Binary Representation Learning on Visual Images 2022-03-01 this book constitutes the refereed proceedings of the 17th international conference on learning and intelligent optimization lion 17 held in nice france during june 4 8 2023 the 40 full papers presented have been carefully reviewed and selected from 83 submissions they focus on all aspects of unleashing the potential of integrating machine learning and optimization approaches including automatic heuristic selection intelligent restart strategies predict then optimize bayesian optimization and learning to optimize

Probabilistic Machine Learning 2023-11-25 through six outstanding and award winning editions ryan s retina has offered unsurpassed coverage of this complex subspecialty everything from basic science through the latest research therapeutics technology and surgical techniques the fully revised 7th edition edited by drs srinivas r sadda andrew p schachat charles p wilkinson david r hinton peter wiedemann k bailey freund and david sarraf continues the tradition of excellence balancing the latest scientific research and clinical correlations and covering everything you need to know on retinal diagnosis treatment development structure function and pathophysiology more than 300 global contributors share their knowledge and expertise to create the most comprehensive reference available on retina today features sweeping content updates including new insights into the fundamental pathogenic mechanisms of age related macular degeneration advances in imaging including oct angiography and intraoperative oct new therapeutics for retinal vascular disease and amd novel immune based therapies for uveitis and the latest in instrumentation and techniques for vitreo retinal surgery includes five new chapters covering artificial intelligence and advanced imaging analysis pachychoroid disease and its association with polypoidal choroidal vasculopathy retinal manifestations of neurodegeneration microbiome and retinal disease and oct angiography includes more than 50 video clips 35 new to this edition highlighting the latest surgical techniques imaging guidance and coverage of complications of vitreoretinal surgery new videos cover scleral inlay for recurrent optic nerve pit masculopathy trauma with contact lens recurrent retinal detachment due to pvr asteroid hyalosis and many more contains more than 2 000 high quality images 700 new to this edition including

anatomical illustrations clinical and surgical photographs diagnostic imaging decision trees and graphs

Learning and Intelligent Optimization 2022-04-13 this book constitutes the post conference proceedings of the 5th international conference on machine learning optimization and data science lod 2019 held in siena italy in september 2019 the 54 full papers presented were carefully reviewed and selected from 158 submissions the papers cover topics in the field of machine learning artificial intelligence reinforcement learning computational optimization and data science presenting a substantial array of ideas technologies algorithms methods and applications

Ryan's Retina 2020-01-03 this book presents selected research papers on current developments in the fields of soft computing and signal processing from the third international conference on soft computing and signal processing icscsp 2020 the book covers topics such as soft sets rough sets fuzzy logic neural networks genetic algorithms and machine learning and discusses various aspects of these topics e g technological considerations product implementation and application issues

Machine Learning, Optimization, and Data Science 2020-06-04 this book introduces readers to the fundamentals of and recent advances in federated learning focusing on reducing communication costs improving computational efficiency and enhancing the security level federated learning is a distributed machine learning paradigm which enables model training on a large body of decentralized data its goal is to make full use of data across organizations or devices while meeting regulatory privacy and security requirements the book starts with a self contained introduction to artificial neural networks deep learning models supervised learning algorithms evolutionary algorithms and evolutionary learning concise information is then presented on multi party secure computation differential privacy and homomorphic encryption followed by a detailed description of federated learning in turn the book addresses the latest advances in federate learning research especially from the perspectives of communication efficiency evolutionary learning and privacy preservation the book is particularly well suited for graduate students academic researchers and industrial practitioners in the field of machine learning and artificial intelligence it can also be used as a self learning resource for readers with a science or engineering background or as a reference text for graduate courses

Current Advances in Soft Robotics: Best Papers From RoboSoft 2018 2021-05-20 the advent of social media has had varying effects across fields industries and governments as more individuals rely on this technology its uses continue to develop and expand social media has forever changed the way in which politics are discussed social movements are formed and how governments interact with the public to fully understand the future of social media further study is required the research anthology on social media s influence on government politics and social movements investigates how social media is used within governments as well as the history behind the technology the book also examines best practices tactics and challenges associated with utilizing social media platforms for social movements covering key topics such as communication interactive technology and social change this major reference work is ideal for government officials industry professionals policymakers

administrators business owners managers researchers academicians scholars practitioners instructors and students

Soft Computing and Signal Processing 2022-11-29 this book is a compilation of peer reviewed papers presented at international conference on machine intelligence and data science applications midas 2021 held in comilla university cumilla bangladesh during 26 27 december 2021 the book covers applications in various fields like image processing natural language processing computer vision sentiment analysis speech and gesture analysis etc it also includes interdisciplinary applications like legal healthcare smart society cyber physical system and smart agriculture etc the book is a good reference for computer science engineers lecturers researchers in machine intelligence discipline and engineering graduates

Federated Learning 2022-08-26 this book presents a selection of papers from the industrial track of ismis 2020 the selection emphasizes broad applicability of artificial intelligence ai technologies in various industrial fields the aim of the book is to fertilize preliminary ideas of readers on the application of ai by means of already successfully implemented application examples furthermore the development of new ideas and concepts shall be motivated by the variety of different application examples the spectrum of the presented contributions ranges from education and training industrial applications in production and logistics to the development of new approaches in basic research which will further expand the possibilities of future applications of ai in industrial settings this broad spectrum gives readers working in the industrial as well as the academic field a good overview of the state of the art in the field of methodologies for intelligent systems

Research Anthology on Social Media's Influence on Government, Politics, and Social Movements 2022-08-01 future epidemics are inevitable and it takes months and even years to collect fully annotated data the sheer magnitude of data required for machine learning algorithms spanning both shallow and deep structures raises a fundamental question how big data is big enough to effectively tackle future epidemics in this context active learning often referred to as human or expert in the loop learning becomes imperative enabling machines to commence learning from day one with minimal labeled data in unsupervised learning the focus shifts toward constructing advanced machine learning models like deep structured networks that autonomously learn over time with human or expert intervention only when errors occur and for limited data a process we term mentoring in the context of covid 19 this book explores the use of deep features to classify data into two clusters 0 1 covid 19 non covid 19 across three distinct datasets cough sound computed tomography ct scan and chest x ray cxr not to be confused our primary objective is to provide a strong assertion on how active learning could potentially be used to predict disease from any upcoming epidemics upon request education training purpose github source codes are provided

Machine Intelligence and Data Science Applications 2021-02-03 this book gathers selected papers from the hong kong association for educational communications and technology 2019 international conference on the theme of shaping the future of education communication and technology it contributes to a

scholarly discussion that looks beyond what future media and technology can offer for education and reflects on best practices and lessons learned from applying new media and technology in a wide range of fields scholars from educational technology communication and higher education share their research work in various formats such as empirical research best practice case studies literature reviews etc the topics of the papers are divided into four main areas including curriculum pedagogy and instructional design teaching and learning experiences with technology online learning and open education resources and communication and media the book s unique quality is its combination of perspectives and research work on communication education and technology thus it will encourage an interdisciplinary discourse and exchange concerning communication new media and educational practices

Intelligent Systems in Industrial Applications 2023-12-24 this book thoroughly explains deep learning models and how to use python programming to implement them in applications such as nlp face detection face recognition face analysis and virtual assistance chatbot machine translation etc it provides hands on guidance in using python for implementing deep learning application models it also identifies future research directions for deep learning

Active Learning to Minimize the Possible Risk of Future Epidemics 2019-04-30 the three volume proceedings set lncs 13655 13656 and 13657 constitutes the refereedproceedings of the 4th international conference on machine learning for cyber security ml4cs 2022 which taking place during december 2 4 2022 held in guangzhou china the 100 full papers and 46 short papers were included in these proceedings were carefully reviewed and selected from 367 submissions

Shaping the Future of Education, Communication and Technology 2023-09-27 maximizing student outcomes in education presents a significant challenge as traditional assessment methods often fall short in providing actionable insights for improvement perspectives on learning analytics for maximizing student outcomes addresses this challenge by offering a comprehensive solution edited by esteemed scholars gürhan durak and serkan Çankaya this book provides innovative knowledge and practical experiences on emerging technologies and processes in learning analytics it covers topics such as data collection visualization predictive analytics and ethical considerations serving as a guide for academic scholars technology enthusiasts and educational institutions this book empowers professionals and researchers to leverage learning analytics effectively enabling data informed decision making improved teaching practices and tailored educational programs by presenting best practices and future directions it equips readers with the necessary tools to optimize learning environments and drive student success with a focus on the transformative potential of learning analytics this book propels education toward a more efficient and effective system that prioritizes student outcomes

Deep Learning and its Applications using Python 2023-01-12 augmenting neurological disorder prediction and rehabilitation using artificial intelligence focuses on how the neurosciences can benefit from advances in ai especially in areas such as medical image analysis for the improved diagnosis of alzheimer s disease early

detection of acute neurologic events prediction of stroke medical image segmentation for quantitative evaluation of neuroanatomy and vasculature diagnosis of alzheimer s disease autism spectrum disorder and other key neurological disorders chapters also focus on how ai can help in predicting stroke recovery and the use of machine learning and ai in personalizing stroke rehabilitation therapy other sections delve into epilepsy and the use of machine learning techniques to detect epileptogenic lesions on mris and how to understand neural networks provides readers with an understanding on the key applications of artificial intelligence and machine learning in the diagnosis and treatment of the most important neurological disorders integrates recent advancements of artificial intelligence and machine learning to the evaluation of large amounts of clinical data for the early detection of disorders such as alzheimer s disease autism spectrum disorder multiple sclerosis headache disorder epilepsy and stroke provides readers with illustrative examples of how artificial intelligence can be applied to outcome prediction neurorehabilitation and clinical exams including a wide range of case studies in predicting and classifying neurological disorders

Machine Learning for Cyber Security 2019-11-07 this book offers a timely snapshot and extensive practical and theoretical insights into the topic of learning from data based on the tutorials presented at the inns big data and deep learning conference innsbddl2019 held on april 16 18 2019 in sestri levante italy the respective chapters cover advanced neural networks deep architectures and supervised and reinforcement machine learning models they describe important theoretical concepts presenting in detail all the necessary mathematical formalizations and offer essential guidance on their use in current big data research

ECEL 2019 18th European Conference on e-Learning 2023-10-24 hands on machine learning with r provides a practical and applied approach to learning and developing intuition into today s most popular machine learning methods this book serves as a practitioner s guide to the machine learning process and is meant to help the reader learn to apply the machine learning stack within r which includes using various r packages such as glmnet h2o ranger xgboost keras and others to effectively model and gain insight from their data the book favors a hands on approach providing an intuitive understanding of machine learning concepts through concrete examples and just a little bit of theory throughout this book the reader will be exposed to the entire machine learning process including feature engineering resampling hyperparameter tuning model evaluation and interpretation the reader will be exposed to powerful algorithms such as regularized regression random forests gradient boosting machines deep learning generalized low rank models and more by favoring a hands on approach and using real word data the reader will gain an intuitive understanding of the architectures and engines that drive these algorithms and packages understand when and how to tune the various hyperparameters and be able to interpret model results by the end of this book the reader should have a firm grasp of r s machine learning stack and be able to implement a systematic approach for producing high quality modeling results features offers a practical and applied introduction to the most popular machine learning methods topics covered include feature engineering

resampling deep learning and more uses a hands on approach and real world data
Perspectives on Learning Analytics for Maximizing Student Outcomes 2022-02-23 this book brings together strategies and innovations that educators from diverse educational contexts have conceptualized and implemented to cater to differences in academic ability as well as in other domains such as psychosocial contexts and developmental needs the emergence of it and new technologies have altered the educational landscape and opened a multitude of opportunities for diverse modes of instruction catering to diverse student populations the book addresses the gap in the literature with evidence based reports of innovative strategies and approaches that are grounded in educational research it identifies student differences in terms of academic ability and also with regard to their cultural and social background their developmental and psycho emotional needs it examines how new technologies are used in instructional approaches and how these innovative strategies diversify learner experiences the book is a valuable resource to practitioners researchers and educational administrators

Augmenting Neurological Disorder Prediction and Rehabilitation Using Artificial Intelligence 2020-04-03 the three volume set lncs 13245 13246 and 13247 constitutes the proceedings of the 26th international conference on database systems for advanced applications dasfaa 2022 held online in april 2021 the total of 72 full papers along with 76 short papers are presented in this three volume set was carefully reviewed and selected from 543 submissions additionally 13 industrial papers 9 demo papers and 2 phd consortium papers are included the conference was planned to take place in hyderabad india but it was held virtually due to the covid 19 pandemic

Recent Trends in Learning From Data 2019-11-07 tackling precarious work has been described by the united nations un s international labour organization ilo as the main challenge facing the world of work in this ground breaking book leading applied research scholars advocates and activists from across the globe respond to this challenge by showing how industrial and organizational i o psychology has a significant contribution to make in humanity moving away from precarious work situations towards sustainable livelihoods broken down into four key parts on sustainable livelihoods fair incomes work security and social protection the book covers a multitude of topics including the role of poor pay lack of work related security social protection for human health and wellbeing and interventions and policies to implement for the future of work the volume offers a detailed look into useful and effective ways to tackle precarious work to create and maintain sustainable livelihoods this curated collection of 22 chapters considers the broader relationships between previous research work and issues of human security and sustainability that affect workers families communities and societies each chapter expands the present understandings of the world of precarious work and how it fits within broader issues of economic ecological and social sustainability in addition to i o psychologists in research practice service and study this book will also be useful for organizational researchers labor unions hr practitioners fair trade cooperative and civil society organizations social scientists human security analysts public health

professionals economists and supporters of the un sdgs including at the un
Hands-On Machine Learning with R 2021-01-04 machine learning continues to have myriad applications across industries and fields to ensure this technology is utilized appropriately and to its full potential organizations must better understand exactly how and where it can be adapted further study on the applications of machine learning is required to discover its best practices challenges and strategies the research anthology on machine learning techniques methods and applications provides a thorough consideration of the innovative and emerging research within the area of machine learning the book discusses how the technology has been used in the past as well as potential ways it can be used in the future to ensure industries continue to develop and grow covering a range of topics such as artificial intelligence deep learning cybersecurity and robotics this major reference work is ideal for computer scientists managers researchers scholars practitioners academicians instructors and students
Diversifying Learner Experience 2022-04-26
Database Systems for Advanced Applications 2023-10-05
Tackling Precarious Work 2022-05-13
Research Anthology on Machine Learning Techniques, Methods, and Applications

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