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Digital Forensics and Watermarking Yun Qing Shi 2017-02-14 This book constitutes the revised post-conference proceedings of the 15th International Workshop on Digital Forensics and Watermarking, IWDW 2016, held in Beijing, China,

in September 2016. The 45 papers presented in this volume were carefully reviewed and selected from 70 submissions. The contributions are organized in topical sections on digital forensics, visual cryptography, reversible

data hiding, and steganography and steganalysis.

*Ryan's Retina E-Book*  
SriniVas R. Sadda  
2022-04-13 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

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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.

**No bullshit guide to math and physics** Ivan

Savov 2014-08-07 Often calculus and mechanics are taught as separate subjects. It shouldn't be like that. Learning calculus without mechanics is incredibly boring. Learning mechanics without calculus is missing the point. This textbook integrates both subjects and highlights the profound connections between them. This is the deal. Give me 350 pages of your attention, and I'll teach you everything you need to know about functions, limits, derivatives, integrals, vectors, forces, and accelerations. This book is the only math book you'll need for the first semester of undergraduate studies in science. With concise, jargon-free lessons on topics in math and physics, each section covers one concept at the level required for a

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first-year university course. Anyone can pick up this book and become proficient in calculus and mechanics, regardless of their mathematical background.

**Image and Graphics** Yao Zhao 2017-12-29 This three-volume set LNCS 10666, 10667, and 10668 constitutes the refereed conference proceedings of the 9th International Conference on Image and Graphics, ICIG 2017, held in Shanghai, China, in September 2017. The 172 full papers were selected from 370 submissions and focus on advances of theory, techniques and algorithms as well as innovative technologies of image, video and graphics processing and fostering innovation, entrepreneurship, and networking.

**Applied Predictive Analytics** Dean Abbott 2014-03-31 Learn the art and science of

predictive analytics – techniques that get results Predictive analytics is what translates big data into meaningful, usable business information. Written by a leading expert in the field, this guide examines the science of the underlying algorithms as well as the principles and best practices that govern the art of predictive analytics. It clearly explains the theory behind predictive analytics, teaches the methods, principles, and techniques for conducting predictive analytics projects, and offers tips and tricks that are essential for successful predictive modeling. Hands-on examples and case studies are included. The ability to successfully apply predictive analytics enables businesses to effectively interpret

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big data; essential for competition today This guide teaches not only the principles of predictive analytics, but also how to apply them to achieve real, pragmatic solutions Explains methods, principles, and techniques for conducting predictive analytics projects from start to finish Illustrates each technique with hands-on examples and includes a series of in-depth case studies that apply predictive analytics to common business scenarios A companion website provides all the data sets used to generate the examples as well as a free trial version of software Applied Predictive Analytics arms data and business analysts and business managers with the tools they need to interpret and capitalize on big data.

*Reservoir Model Design*  
Philip Ringrose  
2021-06-09 This book gives practical advice and ready to use tips on the design and construction of subsurface reservoir models. The design elements cover rock architecture, petrophysical property modelling, multi-scale data integration, upscaling and uncertainty analysis. Philip Ringrose and Mark Bentley share their experience, gained from over a hundred reservoir modelling studies in 25 countries covering clastic, carbonate and fractured reservoir types, and for a range of fluid systems – oil, gas and CO<sub>2</sub>, production and injection, and effects of different mobility ratios. The intimate relationship between geology and fluid flow is explored throughout, showing how

the impact of fluid type, displacement mechanism and the subtleties of single- and multi-phase flow combine to influence reservoir model design. The second edition updates the existing sections and adds sections on the following topics: • A new chapter on modelling for CO<sub>2</sub> storage • A new chapter on modelling workflows • An extended chapter on fractured reservoir modelling • An extended chapter on multi-scale modelling • An extended chapter on the quantification of uncertainty • A revised section on the future of modelling based on recently published papers by the authors

The main audience for this book is the community of applied geoscientists and engineers involved in understanding fluid flow in the subsurface:

whether for the extraction of oil or gas or the injection of CO<sub>2</sub> or the subsurface storage of energy in general. We will always need to understand how fluids move in the subsurface and we will always require skills to model these quantitatively. The second edition of this reference book therefore aims to highlight the modelling skills developed for the current energy industry which will also be required for the energy transition of the future. The book is aimed at technical-professional practitioners in the energy industry and is also suitable for a range of Master's level courses in reservoir characterisation, modelling and engineering. • Provides practical advice and guidelines for users of

3D reservoir modelling packages • Gives advice on reservoir model design for the growing world-wide activity in subsurface reservoir modelling • Covers rock modelling, property modelling, upscaling, fluid flow and uncertainty handling • Encompasses clastic, carbonate and fractured reservoirs • Applies to multi-fluid cases and applications: hydrocarbons and CO<sub>2</sub>, production and storage; rewritten for use in the Energy Transition.

Progress in Advanced Computing and Intelligent Engineering

Khalid Saeed 2018-02-08  
The book focuses on both theory and applications in the broad areas of communication technology, computer science and information security. This two volume book contains the Proceedings of International Conference

on Advanced Computing and Intelligent Engineering. These volumes bring together academic scientists, professors, research scholars and students to share and disseminate information on knowledge and scientific research works related to computing, networking, and informatics to discuss the practical challenges encountered and the solutions adopted. The book also promotes translation of basic research into applied investigation and convert applied investigation into practice.

*Computational Intelligence in Communications and Business Analytics*

Paramartha Dutta  
2021-05-25 This book constitutes the refereed proceedings of the Third International Conference on Computational Intelligence,

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Communications, and Business Analytics, CICBA 2021, held in Santiniketan, India, in January 2021. The 12 full papers and 8 short papers presented in this volume were carefully reviewed and selected from 84 submissions. The papers are organized in topical sections on computational forensic (privacy and security); computational intelligence; data science and advanced data analytics; and intelligent data mining and data warehousing.

**Spatial Modeling in GIS and R for Earth and Environmental Sciences**

Hamid Reza Pourghasemi  
2019-01-18 Spatial Modeling in GIS and R for Earth and Environmental Sciences offers an integrated approach to spatial modelling using both GIS and R. Given the importance of Geographical Information

Systems and geostatistics across a variety of applications in Earth and Environmental Science, a clear link between GIS and open source software is essential for the study of spatial objects or phenomena that occur in the real world and facilitate problem-solving. Organized into clear sections on applications and using case studies, the book helps researchers to more quickly understand GIS data and formulate more complex conclusions. The book is the first reference to provide methods and applications for combining the use of R and GIS in modeling spatial processes. It is an essential tool for students and researchers in earth and environmental science, especially those looking to better utilize GIS and spatial modeling.

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Offers a clear, interdisciplinary guide to serve researchers in a variety of fields, including hazards, land surveying, remote sensing, cartography, geophysics, geology, natural resources, environment and geography Provides an overview, methods and case studies for each application Expresses concepts and methods at an appropriate level for both students and new users to learn by example

*Physical Model and Applications of High-Efficiency Electro-Optical Conversion Devices - Volume II* Feng Chi 2023-03-31

*Innovations in Computer Science and Engineering* H. S. Saini 2019-06-18 This book includes high-quality, peer-reviewed research papers from the 6th International Conference on Innovations in Computer

Science & Engineering (ICICSE 2018), held at Guru Nanak Institutions, Hyderabad, India from August 17 to 18, 2018. The book discusses a wide variety of industrial, engineering and scientific applications of the emerging techniques and offers a platform for researchers from academia and industry to present their original work and exchange ideas, information, techniques and applications in the field of computer science.

**Electronics, Communications and Networks IV** Amir Hussain 2015-07-01 The 4th International Conference on Electronic, Communications and Networks (CECNet2014) inherits the fruitfulness of the past three conferences and lays a foundation for the forthcoming next year in Shanghai.

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CECNet2014 was hosted by Hubei University of Science and Technology, China, with the main objective of providing a comprehensive global forum

### Multimedia Security

Kaiser J. Giri

2021-01-11 This book is a collection of outstanding content written by experts working in the field of multimedia security. It provides an insight about various techniques used in multimedia security and identifies its progress in both technological and algorithmic perspectives. In the contemporary world, digitization offers an effective mechanism to process, preserve and transfer all types of information. The incredible progresses in computing and communication technologies augmented by economic feasibility

have revolutionized the world. The availability of efficient algorithms together with inexpensive digital recording and storage peripherals have created a multimedia era bringing conveniences to people in sharing the digital data that includes images, audio and video. The ever-increasing pace, at which the multimedia and communication technology is growing, has also made it possible to combine, replicate and distribute the content faster and easier, thereby empowering mankind by having a wealth of information at their disposal. However, security of multimedia is giving tough time to the research community around the globe, due to ever-increasing and efficient attacks carried out on multimedia data by intruders, eves-droppers

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and hackers. Further, duplication, unauthorized use and mal-distribution of digital content have become a serious challenge as it leads to copyright violation and is considered to be the principal reason that refrains the information providers in freely sharing their proprietary digital content. The book is useful for students, researchers and professionals to advance their study.

*Understanding Machine Learning* Shai Shalev-Shwartz 2014-05-19  
Introduces machine learning and its algorithmic paradigms, explaining the principles behind automated learning approaches and the considerations underlying their usage.

**Emerging Technologies for Education** Tien-Chi Huang 2017-12-15 This

book constitutes the thoroughly refereed post-workshop proceedings of the Second International Symposium, SETE 2017, held in conjunction with ICWL 2017, Cape Town, South Africa, in September 2017. The 52 full and 13 short papers were carefully reviewed and selected from 123 submissions. This symposium attempts to provide opportunities for the crossfertilization of knowledge and ideas from researchers in diverse fields that make up this interdisciplinary research area.

**Putting the "Why" Back into Bone "Architecture"** Phil Salmon 2017-07-27 A large literature exists on trabecular and cortical bone morphology. The engineering performance of bone, implied from its 3d architecture, is often the endpoint of

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bone biology experiments, being clinically relevant to bone fracture. How and why does bone travel along its complex spatio-temporal trajectory to acquire its architecture? The question "why" can have two meanings. The first, "teleological - why is an architecture advantageous?" – is the domain of substantial biomechanical research to date. The second, "etiologically – how did an architecture come about?" – has received far less attention. This *Frontiers Bone Research Topic* invited contributions addressing this "etiologically why" – what mechanisms can coordinate the activity of bone forming and resorbing cells to produce the observed complex and efficient bone architectures? One mechanism is proposed – chaotic nonlinear

pattern formation (NPF) which underlies – in a unifying way – natural structures as disparate as trabecular bone, swarms of birds flying or shoaling fish, island formation, fluid turbulence and others. At the heart of NPF is the fact that simple rules operating between interacting elements multiplied and repeated many times, lead to complex and structured patterns. This paradigm of growth and form leads to a profound link between bone regulation and its architecture: in bone "the architecture is the regulation". The former is the emergent consequence of the latter. Whatever mechanism does determine bone's developing architecture has to operate at the level of individual sites of formation and resorption and coupling between the two. This has

implications as to how we understand the effect on bone of agents such as gene products or drugs. It may be for instance that the "tuning" of coupling between formation and resorption might be as important as the achievement of enhanced bone volume. The ten articles that were contributed to this Topic were just what we hoped for – a snapshot of leading edge bone biology research which addresses the question of how bone gets its shape. We hope that you find these papers thought-provoking, and that they might stimulate new ideas in the research into bone architecture, growth and adaptation, and how to preserve healthy bone from gestation and childhood until old age.

Computational Intelligence in Pattern Recognition Asit Kumar

Das 2019-08-17 This book presents practical development experiences in different areas of data analysis and pattern recognition, focusing on soft computing technologies, clustering and classification algorithms, rough set and fuzzy set theory, evolutionary computations, neural science and neural network systems, image processing, combinatorial pattern matching, social network analysis, audio and video data analysis, data mining in dynamic environments, bioinformatics, hybrid computing, big data analytics and deep learning. It also provides innovative solutions to the challenges in these areas and discusses recent developments.

Surveillance and Reconnaissance Imaging

Systems Jon C. Leachtenauer 2001 Here's an up-to-date, comprehensive review of surveillance and reconnaissance (S & R) imaging system modeling and performance prediction. This new, one-of-a-kind resource helps you predict the information potential of new surveillance system designs, compare and select from alternative measures of information extraction, relate the performance of tactical acquisition sensors and surveillance sensors, and understand the relative importance of each element of the image chain on S& R system performance. It provides you with system descriptions and characteristics, S& R modeling history, and performance modeling details.

*Biomedical Engineering and Environmental Engineering* David Chan

2015-05-06 This conference series is a forum for enhancing mutual understanding between Biomedical Engineering and Environmental Engineering field. This proceeding provides contributions from many experts representing industry and academic establishments worldwide. The researchers are from different countries and professional. The conference brought *Computer Science and Applications* Ally Hu 2015-06-11 The 2014 Asia-Pacific Conference on Computer Science and Applications was held in Shanghai, December 27-28, 2014. These CSAC-2014 proceedings include 105 selected papers, which focus not only on the research of science and technology of computer sciences, but also on the research of applications, aiming

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**Handbook of Visual Optics, Two-Volume Set**

Pablo Artal 2017-06-27

Handbook of Visual Optics offers an authoritative overview of encyclopedic knowledge in the field of physiological optics. It builds from fundamental concepts to the science and technology of instruments and practical procedures of vision correction, integrating expert knowledge from physics, medicine, biology, psychology, and engineering. The chapters comprehensively cover all aspects of modern study and practice, from optical principles and optics of the eye and retina to novel ophthalmic tools for imaging and visual testing, devices and techniques for visual correction, and the

relationship between ocular optics and visual perception.

**Advancing the use of Eye-Tracking and Pupillometric Data in Complex Environments.**

Russell A. Cohen Hoffing 2022-04-27

*Readings in Computer Vision* Martin A.

Fischler 2014-06-28 The field of computer vision combines techniques from physics, mathematics, psychology, artificial intelligence, and computer science to examine how machines might construct meaningful descriptions of their surrounding environment. The editors of this volume, prominent researchers and leaders of the SRI International AI Center Perception Group, have selected sixty papers, most published since 1980, with the viewpoint that computer vision is concerned with solving seven basic problems:

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Reconstructing 3D scenes from 2D images  
Decomposing images into their component parts  
Recognizing and assigning labels to scene objects  
Deducing and describing relations among scene objects  
Determining the nature of computer architectures that can support the visual function  
Representing abstractions in the world of computer memory  
Matching stored descriptions to image representation  
Each chapter of this volume addresses one of these problems through an introductory discussion, which identifies major ideas and summarizes approaches, and through reprints of key research papers. Two appendices on crucial assumptions in image interpretation and on parallel architectures for vision applications, a glossary of technical terms, and

a comprehensive bibliography and index complete the volume.  
Conference Proceedings. The Future of Education  
Pixel 2015-07-01  
**Proceedings of the Sixth International Conference on Mathematics and Computing** Debasis Giri 2020-12-10  
This book features selected papers from the 6th International Conference on Mathematics and Computing (ICMC 2020), organized by Sikkim University, Gangtok, Sikkim, India, during September 2020. It covers recent advances in the field of mathematics, statistics, and scientific computing. The book presents innovative work by leading academics, researchers, and experts from industry.  
Learning a non-native language in a naturalistic environment: Insights from behavioural and



## neuroimaging research

Christos Pliatsikas

2015-09-02 It is largely accepted in the relevant literature that successful learning of one or more non-native languages is affected by a number of factors that are independent of the target language(s) per se; these factors include the age of acquisition (AoA) of the target language(s), the type and amount of formal instruction the learners have received, as well as the amount of language use that the learners demonstrate. Recent experimental evidence suggests that one crucial factor for efficient native-like performance in the non-native language is the amount of naturalistic exposure, or immersion, that the learners receive to that language. This can be broadly defined as the degree to which language

learners use their non-native language outside the classroom and for their day-to-day activities, and usually presupposes that the learners live in an environment where their non-native language is exclusively or mostly used. Existing literature has suggested that linguistic immersion can be beneficial for lexical and semantic acquisition in a non-native language, as well as for non-native morphological and syntactic processing. More recent evidence has also suggested that naturalistic learning of a non-native language can also have an impact on the patterns of brain activity underlying language processing, as well as on the structure of brain regions that are involved, expressed as changes in the grey matter structure. This

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Research Topic brings together studies on the effects of learning and speaking a non-native language in a naturalistic environment. These include more efficient or "native-like" processing in behavioural tasks tapping on language (lexicon, morphology, syntax), as well as changes in the brain structure and function, as revealed by neuroimaging studies.

Intelligent Computing in Engineering Vijender Kumar Solanki 2020-04-09  
This book comprises select papers from the international conference on Research in Intelligent and Computing in Engineering (RICE 2019) held at Hanoi University of Industry, Hanoi, Vietnam. The volume focuses on current research on various computing models such as

centralized, distributed, cluster, grid and cloud. The contents cover recent advances in wireless sensor networks, mobile ad hoc networks, internet of things, machine learning, grid and cloud computing, and their various applications. The book will help researchers as well as professionals to gain insight into the rapidly evolving fields of internet computing and data mining.

**The built environment and public health: New insights** Linchuan Yang  
2023-02-06

Conference proceedings. New perspectives in science education Pixel  
2014

**Photon-Counting Image Sensors** Eric R. Fossum  
2018-07-06 This book is a printed edition of the Special Issue "Photon-Counting Image Sensors" that was published in Sensors

**Interpretable Machine Learning** Christoph Molnar 2020 This book is about making machine learning models and their decisions interpretable. After exploring the concepts of interpretability, you will learn about simple, interpretable models such as decision trees, decision rules and linear regression. Later chapters focus on general model-agnostic methods for interpreting black box models like feature importance and accumulated local effects and explaining individual predictions with Shapley values and LIME. All interpretation methods are explained in depth and discussed critically. How do they work under the hood? What are their strengths and weaknesses? How can their outputs be interpreted? This book will enable you to select and correctly

apply the interpretation method that is most suitable for your machine learning project.

**Data Science** Jing He 2020-02-01 This book constitutes the refereed proceedings of the 6th International Conference on Data Science, ICDS 2019, held in Ningbo, China, during May 2019. The 64 revised full papers presented were carefully reviewed and selected from 210 submissions. The research papers cover the areas of Advancement of Data Science and Smart City Applications, Theory of Data Science, Data Science of People and Health, Web of Data, Data Science of Trust and Internet of Things.

Remote Sensing of Geomorphology 2020-05-04 Remote Sensing of Geomorphology, Volume 23, discusses the new range of remote-sensing techniques (lidar,

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structure from motion photogrammetry, advanced satellite platforms) that has led to a dramatic increase in terrain information, and as such provided new opportunities for a better understanding of surface morphology and related Earth surface processes. As several papers have been published (including paper reviews and special issues) on this topic, this book summarizes the major advances in remote sensing techniques for the analysis of Earth surface morphology and processes, also highlighting future challenges. Useful for MSc and PhD students, this book is also ideal for any scientists that want to have a single volume guideline to help them develop new ideas. In addition, technicians and private and public sectors working on

remote sensing will find the information useful to their initiatives. Provides a useful guideline for MSc and PhD students, scientists, technicians, and land planners on the use of remote sensing in geomorphology Includes applications on specific case studies that highlight issues and benefits of one technique compared to others Presents future trends in remote sensing and geomorphology

**Advanced Microeconomics for Contract, Institutional, and Organizational Economics**  
W. Bentley MacLeod  
2022-04-05 A graduate textbook on microeconomics, covering decision theory, game theory, and the foundations of contract theory, with a unique focus on the empirical. This graduate-level text on microeconomics, covering such topics as

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decision theory, game theory, bargaining theory, contract theory, trade under asymmetric information, and relational contract theory, is unique in its emphasis on the interplay between theory and evidence. It reviews the microeconomic theory of exchange “from the ground up,” aiming to produce a set of models and hypotheses amenable to empirical exploration, with particular focus on models that are useful for the study of contracts, institutions, and organizations. It explores research that extends price theory to the exchange of commodities when markets are incomplete, discussing recent developments in the field. Topics covered include the relationship between theory and evidence; decision theory as it is used in

contract theory and institutional design; game theory; axiomatic and strategic bargaining theory; agency theory and the class of models that are considered to constitute contract theory, with discussions of moral hazard and trade with asymmetric information; and the theory of relational contracts. The final chapter offers a nontechnical review that provides a guide to which model is the most appropriate for a particular application. End-of-chapter exercises help students expand their understanding of the material, and an appendix provides brief introduction to optimization theory and the welfare theorem of general equilibrium theory. Students are assumed to be familiar with general equilibrium theory and basic constrained optimization

theory.

*Computational Science and Its Applications - ICCSA 2014* Beniamino Murgante 2014-07-01 The six-volume set LNCS 8579-8584 constitutes the refereed proceedings of the 14th International Conference on Computational Science and Its Applications, ICCSA 2014, held in Guimarães, Portugal, in June/July 2014. The 347 revised papers presented in 30 workshops and a special track were carefully reviewed and selected from 1167. The 289 papers presented in the workshops cover various areas in computational science ranging from computational science technologies to specific areas of computational science such as computational geometry and security.

**Deep Learning for Computer Vision** Jason Brownlee 2019-04-04

Step-by-step tutorials on deep learning neural networks for computer vision in python with Keras.

*Advances in 3D Image and Graphics Representation, Analysis, Computing and Information Technology* Roumen Kountchev 2020-05-01 This book gathers selected papers presented at the conference "Advances in 3D Image and Graphics Representation, Analysis, Computing and Information Technology," one of the first initiatives devoted to the problems of 3D imaging in all contemporary scientific and application areas. The aim of the conference was to establish a platform for experts to combine their efforts and share their ideas in the related areas in order to promote and accelerate future development. This second volume discusses

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algorithms and applications, focusing mainly on the following topics: 3D printing technologies; naked, dynamic and auxiliary 3D displays; VR/AR/MR devices; VR camera technologies; microprocessors for 3D data processing; advanced 3D computing systems; 3D data-storage technologies; 3D data networks and technologies; 3D data intelligent processing; 3D data cryptography and security; 3D visual quality estimation and measurement; and 3D decision support and information systems.

*Mathematics for Machine Learning* Marc Peter

Deisenroth 2020-04-23

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization,

probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the

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methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding.

Programming tutorials are offered on the book's web site.

Computer Vision Hongbin Zha 2015-09-18 The two volumes CCIS 546 and 547 constitute the refereed proceedings of the CCF Chinese Conference on Computer Vision, CCCV 2015, held in Xi'an, China, in September 2015. The total of 89 revised full papers presented in both volumes were carefully reviewed and selected from 176 submissions. The papers address issues such as computer vision, machine learning, pattern recognition, target recognition, object detection, target tracking, image

segmentation, image restoration, face recognition, image classification.

*Applied Machine Learning for Smart Data Analysis*

Nilanjan Dey 2019-05-20

The book focuses on how machine learning and the Internet of Things (IoT) has empowered the advancement of information driven arrangements including key concepts and advancements. Ontologies that are used in heterogeneous IoT environments have been discussed including interpretation, context awareness, analyzing various data sources, machine learning algorithms and intelligent services and applications. Further, it includes unsupervised and semi-supervised machine learning techniques with study of semantic analysis and thorough analysis of reviews. Divided into

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sections such as machine learning, security, IoT and data mining, the concepts are explained with practical implementation including results. Key Features Follows an algorithmic approach for data analysis in machine learning Introduces machine learning methods in applications Address the emerging issues in

computing such as deep learning, machine learning, Internet of Things and data analytics Focuses on machine learning techniques namely unsupervised and semi-supervised for unseen and seen data sets Case studies are covered relating to human health, transportation and Internet applications