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Deep Learning in Aging Neuroscience Javier Ramírez 2020-12-28 This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.

Advances and Applications of the EEG-fMRI Technique on Epilepsies Brunno Machado De Campos 2022-02-18

Geodynamics and Earth Tides Observations from Global to Micro Scale Carla Braitenberg 2018-08-23 This volume treats the key aspects that must be known when dealing with continuous space geodetic or terrestrial geodetic observations. The signals of Earth core resonance are discussed, as well as tidal effects on Earth polar motion and on earthquake triggering. Hydrologic loading, be it ocean tides or subsurface water flows, is discussed. These signals compete with crustal deformation observations of earthquakes (e.g., Gorkha 2015) during interseismic periods, and on volcanoes (Elbrus, Caucasus). The instrumentation that is covered includes superconducting gravimeters, continuous seafloor gravimeters, interferometric tilt and strain meters, and GNSS networks. The articles give an up-to-date account of research in which the Earth tides are a benchmark signal for the sophisticated instrumentation mounted on satellites or the surface, observing time-variable signals of an evolving Earth. Scientists studying the earthquake cycle and geodetic monitoring will find useful material. For students in the geosciences, the collection offers a good overview of the broad spectrum of topics related to the Earth geodetic monitoring.

AI-enabled Data Science for COVID-19 Da Yan 2022-01-13

Nutrition Diagnosis American Dietetic Association 2006

Japanese Journal of Applied Physics 2006

Imaging Flow Cytometry Natasha S. Barteneva 2015 This volume explores techniques and

protocols involving quantitative imaging flow cytometry (IFC), which has revolutionised our ability to analyse cells, cellular clusters and populations. Beginning with an introduction to technology, it continues with sections addressing protocols for studies on the cell nucleus and nucleic acids, FISH techniques using an IFC instrument, immune response analysis and drug screening, IFC protocols for apoptosis and cell death analysis, as well as morphological analysis and the identification of rare cells.

Until Now Delaney Diamond 2020-11-20 A simple off-the-books assignment becomes a race of life and death. Shanice Lawrence has met the perfect man. He's sexy, considerate, and best of all, he loves to read. She's certain she's found the man of her dreams—until she learns the real reason for his appearance in her life. Cruz Cordoba's mission was simple: Get close to Shanice, retrieve the data, and kill anyone who gets in his way—including her. But he didn't anticipate falling for the voluptuous bookstore clerk. Now he has to decide what's more important—the mission, or the woman. This is part 1 of 2 and ends on a cliffhanger.

Explanatory Model Analysis Przemyslaw Biecek 2021-02-15 Explanatory Model Analysis Explore, Explain and Examine Predictive Models is a set of methods and tools designed to build better predictive models and to monitor their behaviour in a changing environment. Today, the true bottleneck in predictive modelling is neither the lack of data, nor the lack of computational power, nor inadequate algorithms, nor the lack of flexible models. It is the lack of tools for model exploration (extraction of relationships learned by the model), model explanation (understanding the key factors influencing model decisions) and model examination (identification of model weaknesses and evaluation of model's performance). This book presents a collection of model agnostic methods that may be used for any black-box model together with real-world applications to classification and regression problems.

AIAA Journal American Institute of Aeronautics and Astronautics 1998

2021 Illinois AMP Real Estate Exam Prep Questions & Answers Real Estate Exam Professionals Ltd. 2020-12-21 Pass the 2021 Illinois AMP Real Estate Salesperson Exam effortlessly on your 1st try. In this simple course, which includes both the Illinois state and AMP question and answer exam prep study guide, not only will you learn to pass the state licensing exam, you will also learn: - How to study for the IL exam quickly and effectively. - Secrets to Passing the Real Estate Exam even if you do not know the answer to a question. - How to tackle hard real estate MATH questions with ease and eliminate your fears. - Tips and Tricks from Real Estate Professionals, professional exam writers and test proctors. It will also answer questions like: - Do I need other course materials from companies like Allied Real Estate School? How about Anthony Real Estate School or Kaplan Real Estate School? Are they even good schools to attend? - What kinds of questions are on the Illinois Real Estate License Exam? - Should I use the IL Real Estate License Exams for Dummies Book? This Real Estate Study Guide contains over 1200+ real estate exam questions and answers with full explanations. It includes the Illinois State Specific portion, the AMP portion, real estate MATH ONLY section, and real estate vocabulary only exams. You will receive questions and answers that are similar to those on the Illinois Department of Real Estate Exam. You deserve the BEST real estate exam prep program there is to prepare you to pass, and it gets no better than this. The Illinois Real Estate Salesperson Exam is one of the hardest state test to pass in the United States. We have compiled this simple exam cram book that quickly and easily prepares you to take your state licensing exam and pass it on the 1st try with the AMP exam. Our Real Estate Exam Review is

designed to help you pass the real estate exam in the quickest, easiest and most efficient manner possible. Throw away your real estate course test books and class notes, this is all you need to pass!

Disaster risk reduction in school curricula: case studies from thirty countries 2012

Soft Skills for Workplace Success SAGE Publications India Pvt. Ltd, 2021-07-12 From the ninjas of corporate world comes a curated recipe book on how to be happy and content in our professional lives. Soft skills for Workplace helps us in dodging the derailers such as ego and stress that can negatively impact our behaviour, and replacing them instead with humour and emotional intelligence as tools to find joy at the workplace. SAGE Back to Basics is a distilled compilation of proven and timeless ideas and best practices for new-age and experienced leaders alike. The hand-picked collection of books—on management, leadership, entrepreneurship, branding and CSR—offer advice from management experts whose knowledge and research has impacted and shaped business and management education. Other books in the series: Timeless Leadership | Advertising and Branding Basics | Leadership Lessons from Dr Pritam Singh | Corporate Social Responsibility in India | Basics of Entrepreneurship | Human Resource Development Insights | Ideate, Brainstorm, Create | Building Professional Competencies | Timeless Management

Popular Photography 1975-07

Commerce Business Daily 1999-08

Advances in Superconductivity VIII Hisao Hayakawa 2013-11-11 Since the discovery of superconductivity with trans1tton temperatures above 77 K, concentrated research activities toward the exploration of practical applica tions of these materials have been carried out. Currently, a remarkable improve ment in superconducting properties has been achieved due to the fine optimization of fabrication processes, and this has attracted industrial interest for future applications. In the case of NdBa Cu 0 materials, a new pinning mecha 2 3 7 nism was found which enhances the critical current under applied magnetic fields. In single crystals of these materials, oxygen control results in an increase in the growth rate. The metalorganic chemical vapor deposition (MOCVD) film quality has been improved by using a new liquid raw material. Simultaneously, real demands from the viewpoint of the market start to be a motivation force, es pecially in electronics application where some products are already being sold. At the same time, interesting physical properlies have been obtained from a new superconducting single crystal which has a layered perovskite structure without copper. In addition, various precision measurement techniques have confirmed the d-wave mechanism and the existence of intrinsicJosephson junctions in single crystals. These new phenomena challenge the existing theoretical models but also open the way for new applications. These significant areas of progress in materials science have led high-Tc super conductivity research into the next phase of activity, while fundamental research continues to be very important. I sincerely hope that this volume will give further impetus to this development.

Long Short-Term Memory Networks With Python Jason Brownlee 2017-07-20 The Long Short-Term Memory network, or LSTM for short, is a type of recurrent neural network that achieves state-of-the-art results on challenging prediction problems. In this laser-focused Ebook, finally cut through the math, research papers and patchwork descriptions about LSTMs. Using clear

explanations, standard Python libraries and step-by-step tutorial lessons you will discover what LSTMs are, and how to develop a suite of LSTM models to get the most out of the method on your sequence prediction problems.

Quantitative Portfolio Management Michael Isichenko 2021-09-10 Discover foundational and advanced techniques in quantitative equity trading from a veteran insider In Quantitative Portfolio Management: The Art and Science of Statistical Arbitrage, distinguished physicist-turned-quant Dr. Michael Isichenko delivers a systematic review of the quantitative trading of equities, or statistical arbitrage. The book teaches you how to source financial data, learn patterns of asset returns from historical data, generate and combine multiple forecasts, manage risk, build a stock portfolio optimized for risk and trading costs, and execute trades. In this important book, you'll discover: Machine learning methods of forecasting stock returns in efficient financial markets How to combine multiple forecasts into a single model by using secondary machine learning, dimensionality reduction, and other methods Ways of avoiding the pitfalls of overfitting and the curse of dimensionality, including topics of active research such as "benign overfitting" in machine learning The theoretical and practical aspects of portfolio construction, including multi-factor risk models, multi-period trading costs, and optimal leverage Perfect for investment professionals, like quantitative traders and portfolio managers, Quantitative Portfolio Management will also earn a place in the libraries of data scientists and students in a variety of statistical and quantitative disciplines. It is an indispensable guide for anyone who hopes to improve their understanding of how to apply data science, machine learning, and optimization to the stock market.

Public Examinations Examined Thomas Kellaghan 2019-11-19 High-stakes public examinations exert a dominant influence in most education systems. They affect both teacher and student behavior, especially at the middle and upper levels of secondary education. The content of past examinations tends to dictate what is taught and how it is taught and, more important, what is learned and how it is learned. By changing aspects of these examinations, especially their content and format, education systems can have a strong positive impact on teacher behavior and student learning, help raise student achievement levels, and better prepare students for tertiary-level education and for employment. Examination agencies, many of which have followed the same procedures over decades, can learn from the successes and failures of other systems. This book addresses current issues related to the development, administration, scoring, and usage of these high-stakes public examinations, identifying key issues and problems related to examinations in many emerging market economies as well as in advanced economies. The book's primary audience consists of public examination officials on national, regional, and state examination boards, but the book should also be of interest to senior education policy makers concerned with certification and learning achievement standards, to academics and researchers interested in educational assessment, to governmental and education agencies responsible for student selection, and to professionals at development organizations. "This extremely well-written and comprehensive book offers a timely review of the diversity of public examination practices worldwide; of the tensions between examinations and learning; and of the technical expertise involved in the creation of valid, reliable, and fair assessments. It reminds us that as "the diploma disease†? takes hold with an ever-greater intensity at every stage of education worldwide, and the commercial business of testing flourishes, those concerned with educational quality and meaningful learning must be on guard to prevent the assessment tail wagging the educational dog.†? Angela W. Little, Professor Emerita, Institute of Education, University College London "This

book is very well structured and written and draws on the authors' remarkable global knowledge across countries and histories. It will be a great asset both to administrators responsible for examinations and to academics and other professionals who seek to understand the nature and impact of examinations of different types and in different settings.†? Mark Bray, UNESCO Chair Professor of Comparative Education, University of Hong Kong; and former Director, UNESCO International Institute for Educational Planning "I am sure that Public Examinations Examined, which thoroughly analyzes the practice of public examinations in different countries and makes profound and well-grounded conclusions, will arouse very great interest and will serve to further improve public examinations.†? Victor Bolotov, Distinguished Professor, Higher School of Economics, National Research University, Moscow; member, Russian Academy of Education; and former Deputy Minister of Education, Russian Federation

Artificial Intelligence and PET Imaging, Part 1, An Issue of PET Clinics Babak Saboury 2021-09-21 Artificial Intelligence and PET Imaging, Part 1, An Issue of PET Clinics, E-Book

Decision Forests for Computer Vision and Medical Image Analysis Antonio Criminisi 2013-01-30 This practical and easy-to-follow text explores the theoretical underpinnings of decision forests, organizing the vast existing literature on the field within a new, general-purpose forest model. Topics and features: with a foreword by Prof. Y. Amit and Prof. D. Geman, recounting their participation in the development of decision forests; introduces a flexible decision forest model, capable of addressing a large and diverse set of image and video analysis tasks; investigates both the theoretical foundations and the practical implementation of decision forests; discusses the use of decision forests for such tasks as classification, regression, density estimation, manifold learning, active learning and semi-supervised classification; includes exercises and experiments throughout the text, with solutions, slides, demo videos and other supplementary material provided at an associated website; provides a free, user-friendly software library, enabling the reader to experiment with forests in a hands-on manner.

The Jobs of Tomorrow Mark A. Dutz 2018-04-10 While adoption of new technologies is understood to enhance long-term growth and average per-capita incomes, its impact on lower-skilled workers is more complex and merits clarification. Concerns abound that advanced technologies developed in high-income countries would inexorably lead to job losses of lower-skilled, less well-off workers and exacerbate inequality. Conversely, there are countervailing concerns that policies intended to protect jobs from technology advancement would themselves stultify progress and depress productivity. This book squarely addresses both sets of concerns with new research showing that adoption of digital technologies offers a pathway to more inclusive growth by increasing adopting firms' outputs, with the jobs-enhancing impact of technology adoption assisted by growth-enhancing policies that foster sizable output expansion. The research reported here demonstrates with economic theory and data from Argentina, Brazil, Chile, Colombia and Mexico that lower-skilled workers can benefit from adoption of productivity-enhancing technologies biased towards skilled workers, and often do. The inclusive jobs outcomes arise when the effects of increased productivity and expanding output overcome the substitution of workers for technology. While the substitution effect replaces some lower-skilled workers with new technology and more highly-skilled labor, the output effect can lead to an increase in the total number of jobs for less-skilled workers. Critically, output can increase sufficiently to increase jobs across all tasks and skill types within adopting firms, including jobs for lower-skilled workers, as long as lower-skilled task content

remains complementary to new technologies and related occupations are not completely automated and replaced by machines. It is this channel for inclusive growth that underlies the power of pro-competitive enabling policies and institutions—such as regulations encouraging firms to compete and policies supporting the development of skills that technology augments rather than replaces—to ensure that the positive impact of technology adoption on productivity and lower-skilled workers is realized.

University of Illinois Film and Video University of Illinois Film Center 1988

Decision Making Under Uncertainty Mykel J. Kochenderfer 2015-07-24 An introduction to decision making under uncertainty from a computational perspective, covering both theory and applications ranging from speech recognition to airborne collision avoidance. Many important problems involve decision making under uncertainty—that is, choosing actions based on often imperfect observations, with unknown outcomes. Designers of automated decision support systems must take into account the various sources of uncertainty while balancing the multiple objectives of the system. This book provides an introduction to the challenges of decision making under uncertainty from a computational perspective. It presents both the theory behind decision making models and algorithms and a collection of example applications that range from speech recognition to aircraft collision avoidance. Focusing on two methods for designing decision agents, planning and reinforcement learning, the book covers probabilistic models, introducing Bayesian networks as a graphical model that captures probabilistic relationships between variables; utility theory as a framework for understanding optimal decision making under uncertainty; Markov decision processes as a method for modeling sequential problems; model uncertainty; state uncertainty; and cooperative decision making involving multiple interacting agents. A series of applications shows how the theoretical concepts can be applied to systems for attribute-based person search, speech applications, collision avoidance, and unmanned aircraft persistent surveillance. Decision Making Under Uncertainty unifies research from different communities using consistent notation, and is accessible to students and researchers across engineering disciplines who have some prior exposure to probability theory and calculus. It can be used as a text for advanced undergraduate and graduate students in fields including computer science, aerospace and electrical engineering, and management science. It will also be a valuable professional reference for researchers in a variety of disciplines.

Brain-Computer Interfaces Jonathan Wolpaw 2012-01-24 A recognizable surge in the field of Brain Computer Interface (BCI) research and development has emerged in the past two decades. This book is intended to provide an introduction to and summary of essentially all major aspects of BCI research and development. Its goal is to be a comprehensive, balanced, and coordinated presentation of the field's key principles, current practice, and future prospects.

The Deep Learning Revolution Terrence J. Sejnowski 2018-10-23 How deep learning—from Google Translate to driverless cars to personal cognitive assistants—is changing our lives and transforming every sector of the economy. The deep learning revolution has brought us driverless cars, the greatly improved Google Translate, fluent conversations with Siri and Alexa, and enormous profits from automated trading on the New York Stock Exchange. Deep learning networks can play poker better than professional poker players and defeat a world champion at Go. In this book, Terry Sejnowski explains how deep learning went from being an

arcane academic field to a disruptive technology in the information economy. Sejnowski played an important role in the founding of deep learning, as one of a small group of researchers in the 1980s who challenged the prevailing logic-and-symbol based version of AI. The new version of AI Sejnowski and others developed, which became deep learning, is fueled instead by data. Deep networks learn from data in the same way that babies experience the world, starting with fresh eyes and gradually acquiring the skills needed to navigate novel environments. Learning algorithms extract information from raw data; information can be used to create knowledge; knowledge underlies understanding; understanding leads to wisdom. Someday a driverless car will know the road better than you do and drive with more skill; a deep learning network will diagnose your illness; a personal cognitive assistant will augment your puny human brain. It took nature many millions of years to evolve human intelligence; AI is on a trajectory measured in decades. Sejnowski prepares us for a deep learning future.

Advanced Computational Intelligence Methods for Processing Brain Imaging Data Kaijian Xia 2022-11-09

JPEG2000 Image Compression Fundamentals, Standards and Practice David Taubman 2012-12-06 This is nothing less than a totally essential reference for engineers and researchers in any field of work that involves the use of compressed imagery. Beginning with a thorough and up-to-date overview of the fundamentals of image compression, the authors move on to provide a complete description of the JPEG2000 standard. They then devote space to the implementation and exploitation of that standard. The final section describes other key image compression systems. This work has specific applications for those involved in the development of software and hardware solutions for multimedia, internet, and medical imaging applications.

The Hippocampus Book Per Andersen 2007 The hippocampus is one of a group of remarkable structures embedded within the brains medial temporal lobe. Long known to be important for memory, it has been a prime focus of neuroscience research for many years. This volume offers an account of what the hippocampus does, and what happens when things go wrong.--[Source inconnue].

Official Gazette of the United States Patent and Trademark Office 1995

This Is Service Design Doing Marc Stickdorn 2018-01-02 How can you establish a customer-centric culture in an organization? This is the first comprehensive book on how to actually do service design to improve the quality and the interaction between service providers and customers. You'll learn specific facilitation guidelines on how to run workshops, perform all of the main service design methods, implement concepts in reality, and embed service design successfully in an organization. Great customer experience needs a common language across disciplines to break down silos within an organization. This book provides a consistent model for accomplishing this and offers hands-on descriptions of every single step, tool, and method used. You'll be able to focus on your customers and iteratively improve their experience. Move from theory to practice and build sustainable business success.

IOS Apprentice (Eighth Edition): Beginning IOS Development with Swift and UIKit Joey Devilla 2019-12-12 Learn iPhone and iPad Programming via Tutorials! If you're new to iOS or Swift, or to programming in general, learning how to write an app can seem incredibly overwhelming.

That's why you need a book that: Shows you how to write an app step-by-step. Has tons of illustrations and screenshots to make everything clear. Is written in a fun and easygoing manner! In this book, you will learn how to make your own iPhone and iPad apps, through four engaging, epic-length tutorials. These hands-on tutorials describe in full detail how to build a new app from scratch. Five tutorials, five apps. Each new app will be a little more advanced than the one before, and together they cover everything you need to know to make your own apps. By the end of the series you'll be experienced enough to turn your ideas into real apps that you can sell on the App Store.

The Antivirus Hacker's Handbook Joxean Koret 2015-08-19 Hack your antivirus software to stamp out future vulnerabilities The Antivirus Hacker's Handbook guides you through the process of reverse engineering antivirus software. You explore how to detect and exploit vulnerabilities that can be leveraged to improve future software design, protect your network, and anticipate attacks that may sneak through your antivirus' line of defense. You'll begin building your knowledge by diving into the reverse engineering process, which details how to start from a finished antivirus software program and work your way back through its development using the functions and other key elements of the software. Next, you leverage your new knowledge about software development to evade, attack, and exploit antivirus software—all of which can help you strengthen your network and protect your data. While not all viruses are damaging, understanding how to better protect your computer against them can help you maintain the integrity of your network. Discover how to reverse engineer your antivirus software Explore methods of antivirus software evasion Consider different ways to attack and exploit antivirus software Understand the current state of the antivirus software market, and get recommendations for users and vendors who are leveraging this software The Antivirus Hacker's Handbook is the essential reference for software reverse engineers, penetration testers, security researchers, exploit writers, antivirus vendors, and software engineers who want to understand how to leverage current antivirus software to improve future applications.

Hyperspectral Image Analysis Saurabh Prasad 2020-04-27 This book reviews the state of the art in algorithmic approaches addressing the practical challenges that arise with hyperspectral image analysis tasks, with a focus on emerging trends in machine learning and image processing/understanding. It presents advances in deep learning, multiple instance learning, sparse representation based learning, low-dimensional manifold models, anomalous change detection, target recognition, sensor fusion and super-resolution for robust multispectral and hyperspectral image understanding. It presents research from leading international experts who have made foundational contributions in these areas. The book covers a diverse array of applications of multispectral/hyperspectral imagery in the context of these algorithms, including remote sensing, face recognition and biomedicine. This book would be particularly beneficial to graduate students and researchers who are taking advanced courses in (or are working in) the areas of image analysis, machine learning and remote sensing with multi-channel optical imagery. Researchers and professionals in academia and industry working in areas such as electrical engineering, civil and environmental engineering, geosciences and biomedical image processing, who work with multi-channel optical data will find this book useful.

The Cat of Bubastes George Alfred Henty 1889 In 1250 B.C. the teenaged son of the Egyptian high priest sets off a series of harrowing events when he accidentally kills the sacred

cat of Bubastes and, accompanied by his sister and two foreign slaves, embarks on a dangerous journey to find safe haven beyond the borders of Egypt.

The General Theory of Employment Interest and Money John Maynard Keynes 1998

Cerebral Plasticity Leo M. Chalupa 2011-05-20 A survey of the latest research, covering such topics as plasticity in the adult brain and the underlying mechanisms of plasticity. The notion that neurons in the living brain can change in response to experience—a phenomenon known as "plasticity"—has become a major conceptual issue in neuroscience research as well as a practical focus for the fields of neural rehabilitation and neurodegenerative disease. Early work dealt with the plasticity of the developing brain and demonstrated the critical role played by sensory experience in normal development. Two broader themes have emerged in recent studies: the plasticity of the adult brain (one of the most rapidly developing areas of current research) and the search for the underlying mechanisms of plasticity—explanations for the cellular, molecular, and epigenetic factors controlling plasticity. Many scientists believe that achieving a fundamental understanding of what underlies neuronal plasticity could help us treat neurological disorders and even improve the learning capabilities of the human brain. This volume offers contributions from leaders in the field that cover all three approaches to the study of cerebral plasticity. Chapters treat normal development and the influences of environmental manipulations; cerebral plasticity in adulthood; and underlying mechanisms of plasticity. Other chapters deal with plastic changes in neurological conditions and with the enhancement of plasticity as a strategy for brain repair.

Machine Learning Algorithms for Problem Solving in Computational Applications: Intelligent Techniques Kulkarni, Siddhivinayak 2012-06-30 Machine learning is an emerging area of computer science that deals with the design and development of new algorithms based on various types of data. Machine Learning Algorithms for Problem Solving in Computational Applications: Intelligent Techniques addresses the complex realm of machine learning and its applications for solving various real-world problems in a variety of disciplines, such as manufacturing, business, information retrieval, and security. This premier reference source is essential for professors, researchers, and students in artificial intelligence as well as computer science and engineering.

Selected Water Resources Abstracts 1972

Frontiersinpatternrecognitionandartificialintelligence Blom Marleah 2019-06-17 The fifth volume in this book series consists of a collection of new papers written by a diverse group of international scholars. Papers and presentations were carefully selected from 160 papers submitted to the International Conference on Pattern Recognition and Artificial Intelligence held in Montreal, Quebec (May 2018) and an associated free public lecture entitled 'Artificial Intelligence and Pattern Recognition: Trendy Technologies in Our Modern Digital World'. Chapters address topics such as the evolution of AI, natural language processing, off and on-line handwriting analysis, tracking and detection systems, neural networks, rating video games, computer-aided diagnosis, and digital learning.Within an increasingly digital world, 'artificial intelligence' is becoming a household term and a topic of great interest to many people worldwide. Pattern recognition, in using key features to classify data, has a strong relationship with artificial intelligence. This book not only complements other monographs in the series, it also provides the latest information. It is geared to promote interest and

understanding about pattern recognition and artificial intelligence to the general public. It may also be of interest to graduate students and researchers in the field. Rather than focusing on one specific area, the book introduces readers to various basic concepts and to various potential areas where pattern recognition and artificial intelligence can be applied to make valuable contributions to other fields such as medicine, teaching and learning, forensic science, surveillance, online reviews, computer vision and object tracking.