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 Technological Breakthroughs in Modern Wireless Sensor Applications
 Deep Neural Networks in a Mathematical Framework
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 Underwater Acoustic Sensor Networks
 Proceedings of the International Conference on Acoustics and Vibration (ICAV2016), March 21-23, Hammamet, Tunisia
 Proceedings of the International Conference in Innsbruck, Austria, 1993
 From Natural to Artificial Intelligence
 Advances in Integrating Autonomy with Acoustic Communications for Intelligent Networks of Marine Robots
 15th International Conference, ICAISC 2016, Zakopane, Poland, June 12-16, 2016, Proceedings, Part I
 6th International Symposium on Neural Networks, Isnn 2009 Wuhan, China, May 26-29, 2009 Proceedings
 Deep Learning-Based Approaches for Sentiment Analysis
 Proceedings of the Workshops of the 33rd International Conference on Advanced Information Networking and Applications (WAINA-2019)
 Principles of Wireless Sensor Networks
 Fundamentals of Voice-Quality Engineering in Wireless Networks
 Proceeding of the Fourteenth International Conference on Intelligent Information Hiding and Multimedia Signal Processing, November, 26-28, 2018, Sendai, Japan, Volume 2

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LOGAN REYNOLDS

Advances in Vehicular Ad-Hoc Networks: Developments and Challenges Springer Nature

This book includes high-quality research papers presented at the 1st International Conference on Wireless Sensor Networks, Ubiquitous Computing and Applications (ICWSNUCA, 2021), which is held at Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, India, during 26-27 February, 2021. This

volume focuses on the applications, use-cases, architectures, deployments, and recent advances of wireless sensor networks as well as ubiquitous computing. Different research topics are illustrated in this book, like wireless sensor networks for the Internet of Things; IoT applications for eHealth; smart cities; architectures for WSNs and IoT, WSNs hardware and new devices; low-power wireless technologies; wireless ad hoc sensor networks; routing and data transfer in WSNs; multicast communication in WSNs; security management in WSNs and in IoT systems; and power consumption optimization in WSNs.

The British National Bibliography *Advances in Network and Acoustic Echo Cancellation The Handbook of Signal Processing in Acoustics* brings together a wide range of perspectives from over 100 authors to reveal the interdisciplinary nature of the subject. It brings the key issues from both acoustics and signal processing into perspective and is a unique resource for experts and practitioners alike to find new ideas and techniques within the diversity of signal processing in acoustics. Intelligent Systems and Applications Springer Science & Business Media This book features papers presented at IHH-MSP 2018, the 14th International

Conference on Intelligent Information Hiding and Multimedia Signal Processing. The scope of IIH-MSP included information hiding and security, multimedia signal processing and networking, and bio-inspired multimedia technologies and systems. The book discusses subjects related to massive image/video compression and transmission for emerging networks, advances in speech and language processing, recent advances in information hiding and signal processing for audio and speech signals, intelligent distribution systems and applications, recent advances in security and privacy for multimodal network environments, multimedia signal processing, and machine learning. Presenting the latest research outcomes and findings, it is suitable for researchers and students who are interested in the corresponding fields. IIH-MSP 2018 was held in Sendai, Japan on 26–28 November 2018. It was hosted by Tohoku University and was co-sponsored by the Fujian University of Technology in China, the Taiwan Association for Web Intelligence Consortium in Taiwan, and the Swinburne University of Technology in Australia, as well as the Fujian Provincial Key Laboratory of Big Data Mining and Applications (Fujian University of Technology) and the Harbin Institute of Technology Shenzhen Graduate School in China.

Tools and Technology for Effective Planning Springer

This book presents the proceedings of the International Conference on Computer Networks, Big Data and IoT (ICCBI-2018), held on December 19–20, 2018 in Madurai, India. In recent years, advances in information and communication technologies [ICT] have collectively aimed to streamline the evolution of internet applications. In this context, increasing the ubiquity of emerging internet applications with an enhanced capability to communicate in a distributed environment has become a major need for existing networking models and applications. To achieve this, Internet of Things [IoT] models have been developed to facilitate a smart interconnection and information exchange among modern objects – which plays an essential role in every aspect of our lives. Due to their pervasive nature, computer networks and IoT can easily connect and engage effectively with their network users. This vast network continuously generates data from heterogeneous devices, creating a need to utilize big data, which provides new and unprecedented opportunities to process these huge volumes of data. This International Conference on Computer

Networks, Big Data, and Internet of Things [ICCBI] brings together state-of-the-art research work, which briefly describes advanced IoT applications in the era of big data. As such, it offers valuable insights for researchers and scientists involved in developing next-generation, big-data-driven IoT applications to address the real-world challenges in building a smartly connected environment.

Big Data Analytics CRC Press

The three volume set LNCS 5551/5552/5553 constitutes the refereed proceedings of the 6th International Symposium on Neural Networks, ISNN 2009, held in Wuhan, China in May 2009. The 409 revised papers presented were carefully reviewed and selected from a total of 1,235 submissions. The papers are organized in 20 topical sections on theoretical analysis, stability, time-delay neural networks, machine learning, neural modeling, decision making systems, fuzzy systems and fuzzy neural networks, support vector machines and kernel methods, genetic algorithms, clustering and classification, pattern recognition, intelligent control, optimization, robotics, image processing, signal processing, biomedical applications, fault diagnosis, telecommunication, sensor network and transportation systems, as well as applications.

Acoustic Analysis of Pathologies IGI Global

The six volume set LNCS 11361-11366 constitutes the proceedings of the 14th Asian Conference on Computer Vision, ACCV 2018, held in Perth, Australia, in December 2018. The total of 274 contributions was carefully reviewed and selected from 979 submissions during two rounds of reviewing and improvement. The papers focus on motion and tracking, segmentation and grouping, image-based modeling, deep learning, object recognition, object detection and categorization, vision and language, video analysis and event recognition, face and gesture analysis, statistical methods and learning, performance evaluation, medical image analysis, document analysis, optimization methods, RGBD and depth camera processing, robotic vision, applications of computer vision.

Green, Energy-Efficient and Sustainable Networks CRC Press

The two-volume set LNAI 9692 and LNAI 9693 constitutes the refereed proceedings of the 15th International Conference on Artificial Intelligence and Soft Computing, ICAISC 2016, held in Zakopane, Poland in June 2016. The 134 revised full papers presented were carefully reviewed and selected from 343 submissions. The papers included in the first volume are

organized in the following topical sections: neural networks and their applications; fuzzy systems and their applications; evolutionary algorithms and their applications; agent systems, robotics and control; and pattern classification. The second volume is divided in the following parts: bioinformatics, biometrics and medical applications; data mining; artificial intelligence in modeling and simulation; visual information coding meets machine learning; and various problems of artificial intelligence.

Springer

Surface acoustic wave (SAW) devices are recognized for their versatility and efficiency in controlling and processing electrical signals. This has resulted in a multitude of device concepts for a wide range of signal processing functions, such as delay lines, filters, resonators, pulse compressors, convolvers, and many more. As SAW technology has found its way into mass market products such as TV receivers, pagers, keyless entry systems and cellular phones, the production volume has risen to millions of devices produced every day. At the other end of the scale, these are specialized high performance signal processing SAW devices for satellite communication and military applications, such as radar and electronic warfare. This volume, together with Volume 1, presents an overview of recent advances in SAW technology, systems and applications by some of the foremost researchers in this exciting field. Contents: Coupling-of-Modes Analysis of SAW Devices (V Plesky & J Koskela); Theory and Applications of Green's Functions (A R Baghai-Wadji); New Piezoelectric Substrates for SAW Devices (J Kosinski); Pseudo and High Velocity Pseudo SAWs (M P da Cunha); SAW Devices Beyond 5 GHz (H Odagawa & K Yamanouchi); Wireless SAW Identification and Sensor Systems (F Schmidt & G Scholl); Interaction of Surface Acoustic Waves, Electrons, and Light (A Wixforth). Readership: Graduate students, researchers and academics in device and circuit design, as well as designers of mobile communications systems.

Web, Artificial Intelligence and Network Applications Springer Science & Business Media

Collecting and processing data is a necessary aspect of living in a technologically advanced society. Whether it's monitoring events, controlling different variables, or using decision-making applications, it is important to have a system that is both inexpensive and capable of coping with high amounts of data. Technological Breakthroughs in

Modern Wireless Sensor Applications brings together new ways to process and monitor data, and to put it to work in everything from intelligent transportation systems to healthcare to multimedia applications. This book is an essential reference source for research and development engineers, graduate students, academics, and researchers interested in intelligent engineering, internetworking, routing, and network planning algorithms.

[Artificial Neural Networks in Pattern Recognition](#) Springer

This book provides the reader with empirical findings on innovative signal processing approaches to detecting pathologies in infant cries, by comparing new technological approaches to standard ones. The contributors examine novel approaches to machine adaptation to dysarthric speech.

Proceedings of the 10th International Conference on Computer Methods and Advances in Geomechanics, Tucson, Arizona, USA, 7-12 January 2001 Springer

This book constitutes the refereed proceedings of the 7th IAPR TC3 International Workshop on Artificial Neural Networks in Pattern Recognition, ANNPR 2016, held in Ulm, Germany, in September 2016. The 25 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 32 submissions for inclusion in this volume. The workshop will act as a major forum for international researchers and practitioners working in all areas of neural network- and machine learning-based pattern recognition to present and discuss the latest research, results, and ideas in these areas.

[Advances in Neural Networks Isnn 2009](#) American Institute of Physics

This handbook is the definitive reference for the interdisciplinary field that is ocean engineering. It integrates the coverage of fundamental and applied material and encompasses a diverse spectrum of systems, concepts and operations in the maritime environment, as well as providing a comprehensive update on contemporary, leading-edge ocean technologies. Coverage includes an overview on the fundamentals of ocean science, ocean signals and instrumentation, coastal structures, developments in ocean energy technologies and ocean vehicles and automation. It aims at practitioners in a range of offshore industries and naval establishments as well as academic researchers and graduate students in ocean, coastal, offshore and marine

engineering and naval architecture. The Springer Handbook of Ocean Engineering is organized in five parts: Part A: Fundamentals, Part B: Autonomous Ocean Vehicles, Subsystems and Control, Part C: Coastal Design, Part D: Offshore Technologies, Part E: Energy Conversion
[Mobile Ad Hoc Networking](#) Springer Nature
"This book tackles the prevalent research challenges that hinder a fully deployable vehicular network, presenting a unified treatment of the various aspects of VANETs and is essential for not only university professors, but also for researchers working in the automobile industry"--Provided by publisher.

Proceeding of the International Conference on Computer Networks, Big Data and IoT (ICCBI - 2018) Walter de Gruyter GmbH & Co KG

This volume contains the papers presented at the 8th International Conference on Independent Component Analysis (ICA) and Source Separation held in Paraty, Brazil, March 15-18, 2009. This year's event resulted from scientific collaborations between a team of researchers from different Brazilian universities and received the support of the Brazilian Telecommunications Society (SBRT) as well as the financial sponsorship of CNPq, CAPES and FAPERJ. Independent component analysis and signal separation is one of the most - citing current areas of research in statistical signal processing and unsupervised machine learning. The area has received attention from several research communities including machine learning, neural networks, statistical signal processing and Bayesian modeling. Independent component analysis and signal separation has applications at the intersection of many science and engineering disciplines concerned with understanding and extracting useful information from data as diverse as neuronal activity and brain images, bioinformatics, communications, the World Wide Web, audio, video, sensor signals, and time series.

Springer Handbook of Speech Processing John Wiley & Sons

This book covers deep-learning-based approaches for sentiment analysis, a relatively new, but fast-growing research area, which has significantly changed in the past few years. The book presents a collection of state-of-the-art approaches, focusing on the best-performing, cutting-edge solutions for the most common and difficult challenges faced in sentiment analysis research. Providing detailed explanations of the methodologies, the book is a valuable resource for researchers as well as newcomers to the

field.

[Recent Advances in Intelligent Information Hiding and Multimedia Signal Processing](#) IGI Global

[Advances in Network and Acoustic Echo Cancellation](#) Springer Science & Business Media

[Advances in Network and Acoustic Echo Cancellation](#) Cambridge University Press
Artificial neural networks and genetic algorithms both are areas of research which have their origins in mathematical models constructed in order to gain understanding of important natural processes. By focussing on the process models rather than the processes themselves, significant new computational techniques have evolved which have found application in a large number of diverse fields. This diversity is reflected in the topics which are the subjects of contributions to this volume. There are contributions reporting theoretical developments in the design of neural networks, and in the management of their learning. In a number of contributions, applications to speech recognition tasks, control of industrial processes as well as to credit scoring, and so on, are reflected. Regarding genetic algorithms, several methodological papers consider how genetic algorithms can be improved using an experimental approach, as well as by hybridizing with other useful techniques such as tabu search. The closely related area of classifier systems also receives a significant amount of coverage, aiming at better ways for their implementation.

Further, while there are many contributions which explore ways in which genetic algorithms can be applied to real problems, nearly all involve some understanding of the context in order to apply the genetic algorithm paradigm more successfully. That this can indeed be done is evidenced by the range of applications covered in this volume.

[IEEE ASSP Workshop on Applications of Signal Processing to Audio and Acoustics](#) Springer

Modern noise research and assessment techniques are commonly used in the workplace and our personal living environment. Occupational Noise and Workplace Acoustics presents new, innovative, advanced research and evaluation methods of parameters characterizing acoustic field and noise in the working environment, as well as acoustic properties of rooms and noise reduction measures. This includes acoustic field visualization methods, field imaging techniques, wireless sensor networks, and the Internet of Things (IoT); optimization methods using genetic algorithms;

acoustic quality assessment methods for rooms; and methods for measuring ultrasonic noise in the frequency range of 10-40 kHz. This book is a valuable resource for individuals and students interested in the areas of acoustic and sound engineering as it provides: The latest techniques and methods in the field of noise reduction and improvement of acoustic comfort, Innovative and advanced acoustic field visualization techniques for those with an auditory impairment, Explains noise reduction through proper workplace design, Discusses use of wireless sensor networks and the IoT for monitoring noise, and Provides acoustic quality assessment methods. "The authors' intention to expound on advanced issues in a lucid and accessible way was rewarded with success. In the book, an expert will find a number of hints helpful in solving actual problems, whereas a layperson will be able to form a view on challenges facing contemporary technology. What should also be emphasized is the book's soundness in documenting these advanced theses and postulates with diligently conducted empirical research. Despite a wide thematic range, the book is written consistently and under no circumstances can be considered a collection of randomly selected problems. The content corresponds fully to the title. The authors are consistent in acquainting the reader with topical scientific issues concerning assessment of acoustic hazards and the methodology of combating them." —Professor Zbigniew Dąbrowski, BEng, PhD, DSc, Warsaw University of Technology
[Independent Component Analysis and Signal Separation](#) Springer Science &

Business Media

This SpringerBrief describes how to build a rigorous end-to-end mathematical framework for deep neural networks. The authors provide tools to represent and describe neural networks, casting previous results in the field in a more natural light. In particular, the authors derive gradient descent algorithms in a unified way for several neural network structures, including multilayer perceptrons, convolutional neural networks, deep autoencoders and recurrent neural networks. Furthermore, the authors developed framework is both more concise and mathematically intuitive than previous representations of neural networks. This SpringerBrief is one step towards unlocking the black box of Deep Learning. The authors believe that this framework will help catalyze further discoveries regarding the mathematical properties of neural networks. This SpringerBrief is accessible not only to researchers, professionals and students working and studying in the field of deep learning, but also to those outside of the neural network community.

Computer Methods and Advances in Geomechanics Springer Nature

Many AI (and machine learning) tasks present in dual forms, e.g., English-to-Chinese translation vs. Chinese-to-English translation, speech recognition vs. speech synthesis, question answering vs. question generation, and image classification vs. image generation. Dual learning is a new learning framework that leverages the primal-dual structure of AI tasks to obtain effective feedback or regularization signals in order to enhance the learning/inference process. Since it was first introduced four

years ago, the concept has attracted considerable attention in multiple fields, and been proven effective in numerous applications, such as machine translation, image-to-image translation, speech synthesis and recognition, (visual) question answering and generation, image captioning and generation, and code summarization and generation. Offering a systematic and comprehensive overview of dual learning, this book enables interested researchers (both established and newcomers) and practitioners to gain a better understanding of the state of the art in the field. It also provides suggestions for further reading and tools to help readers advance the area. The book is divided into five parts. The first part gives a brief introduction to machine learning and deep learning. The second part introduces the algorithms based on the dual reconstruction principle using machine translation, image translation, speech processing and other NLP/CV tasks as the demo applications. It covers algorithms, such as dual semi-supervised learning, dual unsupervised learning and multi-agent dual learning. In the context of image translation, it introduces algorithms including CycleGAN, DualGAN, DiscoGAN, cdGAN and more recent techniques/applications. The third part presents various work based on the probability principle, including dual supervised learning and dual inference based on the joint-probability principle and dual semi-supervised learning based on the marginal-probability principle. The fourth part reviews various theoretical studies on dual learning and discusses its connections to other learning paradigms. The fifth part provides a summary and suggests future research directions.

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