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KEY=FACE - ELVIS KNOX

Advances in Visual Computing Second International Symposium, ISVC 2006, Lake Tahoe, NV, USA, November 6-8, 2006, Proceedings

Springer Science & Business Media

Principal Component Analysis Networks and Algorithms

Springer **This book not only provides a comprehensive introduction to neural-based PCA methods in control science, but also presents many novel PCA algorithms and their extensions and generalizations, e.g., dual purpose, coupled PCA, GED, neural based SVD algorithms, etc. It also discusses in detail various analysis methods for the convergence, stabilizing, self-stabilizing property of algorithms, and introduces the deterministic discrete-time systems method to analyze the convergence of PCA/MCA algorithms. Readers should be familiar with numerical analysis and the fundamentals of statistics, such as the basics of least squares and stochastic algorithms. Although it focuses on neural networks, the book**

only presents their learning law, which is simply an iterative algorithm. Therefore, no a priori knowledge of neural networks is required. This book will be of interest and serve as a reference source to researchers and students in applied mathematics, statistics, engineering, and other related fields.

Kernel Learning Algorithms for Face Recognition

Springer Science & Business Media **Kernel Learning Algorithms for Face Recognition** covers the framework of kernel based face recognition. This book discusses the advanced kernel learning algorithms and its application on face recognition. This book also focuses on the theoretical deviation, the system framework and experiments involving kernel based face recognition. Included within are algorithms of kernel based face recognition, and also the feasibility of the kernel based face recognition method. This book provides researchers in pattern recognition and machine learning area with advanced face recognition methods and its newest applications.

Advanced Intelligent Computing Theories and Applications

7th International Conference, ICIC 2011, Zhengzhou, China, August 11-14, 2011. Revised Selected Papers

Springer This book constitutes the thoroughly refereed post-conference proceedings of the 7th International Conference on Intelligent Computing, ICIC 2011, held in Zhengzhou, China, in August 2011. The 94 revised full papers presented were carefully reviewed and selected from 832 submissions. The papers are organized in topical sections on intelligent computing in scheduling; local feature descriptors for image processing and recognition; combinatorial and numerical optimization; machine learning theory and methods; intelligent control and automation; knowledge representation/reasoning and expert systems; intelligent computing in pattern recognition; intelligent computing in image

processing; intelligent computing in computer vision; biometrics with applications to individual security/forensic sciences; modeling, theory, and applications of positive systems; sparse manifold learning methods and applications; advances in intelligent information processing.

Artificial Intelligence and Computational Intelligence

Second International Conference,
AICI 2011, Taiyuan, China,
September 24-25, 2011,
Proceedings, Part III

Springer This three-volume proceedings contains revised selected papers from the Second International Conference on Artificial Intelligence and Computational Intelligence, AICI 2011, held in Taiyuan, China, in September 2011. The total of 265 high-quality papers presented were carefully reviewed and selected from 1073 submissions. The topics of Part III covered are: machine vision; natural language processing; nature computation; neural computation; neural networks; particle swarm optimization; pattern recognition; rough set theory; and support vector machine.

Image Analysis and Processing -- ICIAP 2011

16th International Conference,
Ravenna, Italy, September 14-16,
2011, Proceedings, Part I

Springer The two-volume set LNCS 6978 + LNCS 6979 constitutes the proceedings of the 16th International Conference on Image Analysis and Processing, ICIAP 2011, held in Ravenna, Italy, in September 2011. The total of 121 papers presented was carefully reviewed and selected from 175 submissions. The papers are divided into 10 oral sessions, comprising

44 papers, and three post sessions, comprising 77 papers. They deal with the following topics: image analysis and representation; image segmentation; pattern analysis and classification; forensics, security and document analysis; video analysis and processing; biometry; shape analysis; low-level color image processing and its applications; medical imaging; image analysis and pattern recognition; image and video analysis and processing and its applications.

Advanced Technologies, Embedded and Multimedia for Human-centric Computing

HumanCom and EMC 2013

Springer Science & Business Media The theme of HumanCom and EMC is focused on the various aspects of human-centric computing for advances in computer science and its applications, embedded and multimedia computing and provides an opportunity for academic and industry professionals to discuss the latest issues and progress in the area of human-centric computing. And the theme of EMC (Advanced in Embedded and Multimedia Computing) is focused on the various aspects of embedded system, smart grid, cloud and multimedia computing, and it provides an opportunity for academic, industry professionals to discuss the latest issues and progress in the area of embedded and multimedia computing. Therefore this book will include the various theories and practical applications in human-centric computing and embedded and multimedia computing.

From Natural to Artificial Intelligence

Algorithms and Applications

Artificial Intelligence on Medical Data

Proceedings of International Symposium, ISCMM 2021

Springer Nature This book includes high-quality papers presented at the **Second International Symposium on Computer Vision and Machine Intelligence in Medical Image Analysis (ISCMM 2021)**, organized by **Computer Applications Department, SMIT** in collaboration with **Department of Pathology, SMIMS, Sikkim, India**, and funded by **Indian Council of Medical Research**, during **11 - 12 November 2021**. It discusses common research problems and challenges in medical image analysis, such as deep learning methods. It also discusses how these theories can be applied to a broad range of application areas, including lung and chest x-ray, breast CAD, microscopy and pathology. The studies included mainly focus on the detection of events from biomedical signals.

Biometric Image Discrimination Technologies

IGI Global "The book gives an introduction to basic biometric image discrimination technologies including theories that are the foundations of those technologies and new algorithms for biometrics authentication"--
Provided by publisher.

Advances in Computer Science and Information Technology

AST/UCMA/ISA/ACN 2010

Conferences, Miyazaki, Japan, June 23-25, 2010. Joint Proceedings

Springer Science & Business Media This book constitutes the refereed joint proceedings of four co-located international conferences, concertedly held in Miyazaki, Japan, in June 2010. The papers in this volume were selected based on their scores obtained from the independent reviewing processes at particular conferences, and their relevance to the idea of constructing hybrid solution to address the real-world challenges of IT. It provides a chance for academic and industry professionals to catch up on recent progress in the related areas. The 49 revised full papers presented were

carefully reviewed and selected during two rounds of reviewing and improvement from more than 1000 initial submissions. The papers emanate from the four following international conferences: Information Security and Assurance (ISA 2010), Advanced Communication and Networking (ACN 2010), Advanced Science and Technology (AST 2010), and Ubiquitous Computing and Multimedia Applications (UCMA 2010). This volume focuses on various aspects of advance

Hybrid Intelligent Techniques for Pattern Analysis and Understanding

CRC Press **Hybrid Intelligent Techniques for Pattern Analysis and Understanding** outlines the latest research on the development and application of synergistic approaches to pattern analysis in real-world scenarios. An invaluable resource for lecturers, researchers, and graduates students in computer science and engineering, this book covers a diverse range of hybrid intelligent techniques, including image segmentation, character recognition, human behavioral analysis, hyperspectral data processing, and medical image analysis.

Face Biometrics for Personal Identification

Multi-Sensory Multi-Modal Systems

Springer Science & Business Media **This book provides ample coverage of theoretical and experimental state-of-the-art work as well as new trends and directions in the biometrics field. It offers students and software engineers a thorough understanding of how some core low-level building blocks of a multi-biometric system are implemented. While this book covers a range of biometric traits, its main emphasis is placed on multi-sensory and multi-modal face biometrics algorithms and systems.**

Advances in Signal Processing and Intelligent Recognition Systems

Proceedings of Second International

Symposium on Signal Processing and Intelligent Recognition Systems (SIRS-2015) December 16-19, 2015, Trivandrum, India

Springer This Edited Volume contains a selection of refereed and revised papers originally presented at the second International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS-2015), December 16-19, 2015, Trivandrum, India. The program committee received 175 submissions. Each paper was peer reviewed by at least three or more independent referees of the program committee and the 59 papers were finally selected. The papers offer stimulating insights into biometrics, digital watermarking, recognition systems, image and video processing, signal and speech processing, pattern recognition, machine learning and knowledge-based systems. The book is directed to the researchers and scientists engaged in various field of signal processing and related areas.

Proceedings of International Conference on Frontiers in Computing and Systems COMSYS 2020

Springer Nature This book gathers outstanding research papers presented at the International Conference on Frontiers in Computing and Systems (COMSYS 2020), held on January 13-15, 2019 at Jalpaiguri Government Engineering College, West Bengal, India and jointly organized by the Department of Computer Science & Engineering and Department of Electronics & Communication Engineering. The book presents the latest research and results in various fields of machine learning, computational intelligence, VLSI, networks and systems, computational biology, and security, making it a rich source of reference material for academia and industry alike.

Intelligence and Security Informatics

IEEE International Conference on Intelligence and Security Informatics, ISI 2005, Atlanta, GA, USA, May 19-20, 2005, Proceedings

Springer Intelligence and security informatics (ISI) can be broadly defined as the study of the development and use of advanced information technologies and systems for national and international security-related applications, through an integrated technological, organizational, and policy-based approach. In the past few years, ISI research has experienced tremendous growth and attracted substantial interest from academic researchers in related fields as well as practitioners from both government agencies and industry. The first two meetings (ISI 2003 and ISI 2004) in the ISI symposium and conference series were held in Tucson, Arizona, in 2003 and 2004, respectively. They provided a stimulating intellectual forum for discussion among previously disparate communities: academic researchers in information technologies, computer science, public policy, and social studies; local, state, and federal law enforcement and intelligence experts; and information technology industry consultants and practitioners. Building on the momentum of these ISI meetings and with sponsorship by the IEEE, we held the IEEE International Conference on Intelligence and Security Informatics (ISI 2005) in May 2005 in Atlanta, Georgia. In addition to the established and emerging ISI research topics covered at past ISI meetings, ISI 2005 included a new track on Terrorism Informatics, which is a new stream of terrorism research leveraging the latest advances in social science methodologies, and information technologies and tools. ISI 2005 was jointly hosted by Rutgers, the State University of New Jersey; the University of Arizona (UA); and the Georgia Institute of Technology (GATECH).

Transactions on Computational

Science XXXVI

Special Issue on Cyberworlds and Cybersecurity

Springer Nature The LNCS journal Transactions on Computational Science reflects recent developments in the field of Computational Science, conceiving the field not as a mere ancillary science but rather as an innovative approach supporting many other scientific disciplines. The journal focuses on original high-quality research in the realm of computational science in parallel and distributed environments, encompassing the facilitating theoretical foundations and the applications of large-scale computations and massive data processing. It addresses researchers and practitioners in areas ranging from aerospace to biochemistry, from electronics to geosciences, from mathematics to software architecture, presenting verifiable computational methods, findings, and solutions, and enabling industrial users to apply techniques of leading-edge, large-scale, high performance computational methods. This, the 36th issue of the Transactions on Computational Science, is devoted to the area of Cyberworlds and Cybersecurity. The first four papers constitute extended versions of selected papers presented at the 2018 International Conference on Cyberworlds, CW 2018. A further two papers were accepted following an open Call for Papers and cover the areas of fast 3D segmentation using geometric surface features and nature-inspired optimization for face recognition.

Intelligent Systems and Applications

Proceedings of the International Computer Symposium (ICS) Held at Taichung, Taiwan, December 12 – 14, 2014

IOS Press This book presents the proceedings of the International Computer Symposium 2014 (ICS 2014), held at Tunghai University, Taichung, Taiwan in December. ICS is a biennial symposium founded in 1973 and offers a

platform for researchers, educators and professionals to exchange their discoveries and practices, to share research experiences and to discuss potential new trends in the ICT industry. Topics covered in the ICS 2014 workshops include: algorithms and computation theory; artificial intelligence and fuzzy systems; computer architecture, embedded systems, SoC and VLSI/EDA; cryptography and information security; databases, data mining, big data and information retrieval; mobile computing, wireless communications and vehicular technologies; software engineering and programming languages; healthcare and bioinformatics, among others. There was also a workshop on information technology innovation, industrial application and the Internet of Things. ICS is one of Taiwan's most prestigious international IT symposiums, and this book will be of interest to all those involved in the world of information technology.

Information Security Applications

4th International Workshop, WISA
2003, Jeju Island, Korea, August
25-27, 2003, Revised Papers

Springer Science & Business Media This book constitutes the thoroughly refereed post-proceedings of the 4th International Workshop on Information Security Applications, WISA 2003, held on Jeju Island, Korea, in August 2003. The 36 revised full papers were carefully reviewed and selected from 200 submissions. The papers are organized in topical sections on network security, mobile security; intrusion detection; Internet security; secure software, hardware, and systems; e-commerce security; digital rights management; biometrics and human interfaces; public key cryptography and key management; and applied cryptography.

Nature-Inspired Computing: Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools,

and Applications

IGI Global As technology continues to become more sophisticated, mimicking natural processes and phenomena also becomes more of a reality. Continued research in the field of natural computing enables an understanding of the world around us, in addition to opportunities for man-made computing to mirror the natural processes and systems that have existed for centuries. **Nature-Inspired Computing: Concepts, Methodologies, Tools, and Applications** takes an interdisciplinary approach to the topic of natural computing, including emerging technologies being developed for the purpose of simulating natural phenomena, applications across industries, and the future outlook of biologically and nature-inspired technologies. Emphasizing critical research in a comprehensive multi-volume set, this publication is designed for use by IT professionals, researchers, and graduate students studying intelligent computing.

Neural Networks and Statistical Learning

Springer Nature This book provides a broad yet detailed introduction to neural networks and machine learning in a statistical framework. A single, comprehensive resource for study and further research, it explores the major popular neural network models and statistical learning approaches with examples and exercises and allows readers to gain a practical working understanding of the content. This updated new edition presents recently published results and includes six new chapters that correspond to the recent advances in computational learning theory, sparse coding, deep learning, big data and cloud computing. Each chapter features state-of-the-art descriptions and significant research findings. The topics covered include: • multilayer perceptron; • the Hopfield network; • associative memory models; • clustering models and algorithms; • the radial basis function network; • recurrent neural networks; • nonnegative matrix factorization; • independent component analysis; • probabilistic and Bayesian networks; and • fuzzy sets and logic. Focusing on the prominent accomplishments and their practical aspects, this book provides academic and technical staff, as well as graduate students and researchers with a solid foundation and comprehensive reference on the fields of neural networks, pattern recognition, signal processing, and machine learning.

Computational Vision and Medical

Image Processing: VipIMAGE 2011

CRC Press This book contains invited lecturers and full papers presented at **VIPIIMAGE 2011 - III ECCOMAS Thematic Conference on Computational Vision and Medical Image Processing (Olh Algarve, Portugal, 12-14 October 2011)**. International contributions from 16 countries provide a comprehensive coverage of the current state-of-the-art in: **Image Processing**

Multimodal Biometrics and Intelligent Image Processing for Security Systems

IGI Global "This book provides an in-depth description of existing and fresh fusion approaches for multimodal biometric systems, covering relevant topics affecting the security and intelligent industries"--Provided by publisher.

Pattern Recognition

7th Chinese Conference, CCPR 2016, Chengdu, China, November 5-7, 2016, Proceedings, Part I

Springer The two-volume set CCIS 662 and CCIS 663 constitutes the refereed proceedings of the 7th Chinese Conference on Pattern Recognition, CCPR 2016, held in Chengdu, China, in November 2016. The 121 revised papers presented in two volumes were carefully reviewed and selected from 199 submissions. The papers are organized in topical sections on robotics; computer vision; basic theory of pattern recognition; image and video processing; speech and language; emotion recognition.

Next-Generation Applied Intelligence

22nd International Conference on Industrial Engineering and Other Applications of Applied Intelligent Systems, IEA/AIE 2009, Tainan, Taiwan, June 24-27, 2009.

Proceedings

Springer **The International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems (IEA/AIE), always sponsored by the International Society of Applied Intelligence (ISAI), emphasizes applications of applied intelligent systems to solve real-life problems in all areas. It is held every year and has become one of the biggest and most important academic activities concerning the theory and applications of intelligent systems in the world. The IEA/AIE 2009 conference was hosted by the National University of Tainan and National University of Kaohsiung in Taiwan. This was the first time that the IEA/AIE conference was held in Taiwan. We received 286 papers from all parts of the world. Only 84 papers were selected for publication in this volume of LNAI proceedings. Each paper was reviewed by at least two anonymous referees to assure the high quality. We would like to express our sincere thanks to the Program Committee members and all the reviewers for their hard work, which helped us to select the highest quality papers for the conference. These papers highlight opportunities and challenges for the next generation of applied intelligence and reveal technological innovations in real applications.**

Innovations in Electrical and Electronic Engineering

Proceedings of ICEEE 2021

Springer Nature **This book presents selected papers from the 2021 International Conference on Electrical and Electronics Engineering (ICEEE 2020), held on January 2-3, 2021. The book focuses on the current developments in various fields of electrical and electronics engineering, such as power generation, transmission and distribution; renewable energy**

sources and technologies; power electronics and applications; robotics; artificial intelligence and IoT; control, automation and instrumentation; electronics devices, circuits and systems; wireless and optical communication; RF and microwaves; VLSI; and signal processing. The book is a valuable resource for academics and industry professionals alike.

Advances in Computing and Data Sciences

5th International Conference,
ICACDS 2021, Nashik, India, April
23–24, 2021, Revised Selected
Papers, Part I

Springer Nature

Communication and Power Engineering

Walter de Gruyter GmbH & Co KG **Communication and Power Engineering are the proceedings of the joint International conferences organized by IDES in the year 2016. The aim of these conference proceedings is to bringing together the researchers, scientists, engineers, and scholar students in all areas of Computer Science, Power Engineering, Electrical & Electronics and provides an international forum for the dissemination of original research results, new ideas and practical development experiences, focused on both theory and practices. The conference deals with the frontier topics in the Computer Science, Electrical and Electronics Engineering subjects. The Institute of Doctors Engineers and Scientists - IDES is formed to promote, and organize technical research Meetings, Conference, Discussions, Seminars, Workshops, Study tours, Industry visits; and to publish professional Journals, Magazines and Newsletters; and to carry on research and development on the above fields; and to research, design, and develop products or materials and projects. There are total 35 research papers included in this book covering all the frontier topics in Computer Science, Electrical and Electronics Engineering subjects. The authors of each chapter are researchers from various universities.**

Contents:ForewordHandwritten Script Identification from Text LinesA Rule

based Approach for Noun Phrase Extraction from English Text
Document Recommending Investors using Association Rule Mining for
Crowd Funding Projects Colour Texture Classification Using Anisotropic
Diffusion and Wavelet Transform Competitive Advantage of using
Differential Evolution Algorithm for Software Effort Estimation Comparative
Analysis of Cepstral analysis and Autocorrelation Method for Gender
Classification A Simulative Study on Effects of Sensing Parameters on
Cognitive Radio's Performance Analysis of Cyclotomic Fast Fourier
Transform by Gate level Delay Method Dynamic Resource Allocation in Next
Generation Networks using FARIMA Time Series Model Classification of
Mimetic Spectral Signatures using Orthogonal Subspace Projection with
Complex Wavelet Filter Bank based Dimensionality Reduction An
Illumination Invariant Face Recognition Approach based on Fourier
Spectrum Optimal Load Frequency Controller for a Deregulated Reheat
Thermal Power System Design and Implementation of a Heuristic
Approximation Algorithm for Multicast Routing in Optical
Networks Infrastructure Management Services Toolkit A Novel Approach for
Residential Society Maintenance Problem for Better Human Life Smart
Suspect Vehicle Surveillance System Formal Performance Analysis of Web
Servers using an SMT Solver and a Web Framework Modified GCC Compiler
Pass for Thread-Level Speculation by Modifying the Window Size using
Openmp Overview and Evaluation of an IoT Product for Application
Development A TCP in CR-MANET with Unstable Bandwidth Impact of Digital
Ecosystem on Business Environment A Two-Factor Single Use Password
Scheme Design & Implementation of Wireless System for Cochlear
Devices Software Code Clone Detection and Removal using Program
Dependence Graphs Social Sentimental Analytics using Big Data
Tools Predicting Flight Delay using ANN with Multi-core Map Reduce
Framework New Network Overlay Solution for Complete Networking
Virtualization Review upon Distributed Facts Hard Drive Schemes
throughout Wireless Sensor Communities Detection of Rapid Eye Movement
Behaviour Sleep Disorder using Time and Frequency Analysis of EEG
Signal Applied on C4-A1 Channel Analysis of PV/ WIND/ FUEL CELL Hybrid
System Interconnected With Electrical Utility Grid Analysis of Wind Speed
Prediction Technique by hybrid Weibull-ANN Model An efficient FPGA
Implementation of DES and Triple-DES Encryption Systems A Novelty
Comparison of Power with Assorted Parameters of a Horizontal Wind Axis
Turbine for NACA 5512 Retaliation based Enhanced Weighted Clustering
Algorithm for Mobile Ad-hoc Network (R-EWCA) Chest CT Scans Screening of
COPD based Fuzzy Rule Classifier Approach Author Index

Proceedings of the Second

International Conference on Computer and Communication Technologies IC3T 2015, Volume 3

Springer The book is about all aspects of computing, communication, general sciences and educational research covered at the Second International Conference on Computer & Communication Technologies held during 24-26 July 2015 at Hyderabad. It hosted by CMR Technical Campus in association with Division - V (Education & Research) CSI, India. After a rigorous review only quality papers are selected and included in this book. The entire book is divided into three volumes. Three volumes cover a variety of topics which include medical imaging, networks, data mining, intelligent computing, software design, image processing, mobile computing, digital signals and speech processing, video surveillance and processing, web mining, wireless sensor networks, circuit analysis, fuzzy systems, antenna and communication systems, biomedical signal processing and applications, cloud computing, embedded systems applications and cyber security and digital forensic. The readers of these volumes will be highly benefited from the technical contents of the topics.

Visual Information and Information Systems

8th International Conference, VISUAL 2005, Amsterdam, The Netherlands, July 5, 2005, Revised Selected Papers

Springer Science & Business Media This book constitutes the thoroughly refereed post-proceedings of the 8th International Conference on Visual Information Systems, VISUAL 2005, held in Amsterdam, The Netherlands in July 2005. The 25 revised full papers presented were carefully reviewed and selected for inclusion in the book. They represent the current state of

the art of visual information processing, feature extraction and aggregation at semantic level and content-based retrieval, as well as the study of user intention in query processing. As digital content becomes widespread, issues of delivery and consumption of multimedia content were also topics of this workshop.

Privacy, Intrusion Detection and Response: Technologies for Protecting Networks

Technologies for Protecting Networks

IGI Global **Though network security has almost always been about encryption and decryption, the field of network security is moving towards securing the network environment rather than just stored or transferred data. Privacy, Intrusion Detection and Response: Technologies for Protecting Networks explores the latest practices and research works in the area of privacy, intrusion detection, and response. Increased interest on intrusion detection together with prevention and response proves that protecting data either in the storage or during transfer is necessary, but not sufficient, for the security of a network. This book discusses the latest trends and developments in network security and privacy, and serves as a vital reference for researchers, academics, and practitioners working in the field of privacy, intrusion detection, and response.**

Advances in Information Systems and Technologies

Springer Science & Business Media **This book contains a selection of articles from The 2013 World Conference on Information Systems and Technologies (WorldCIST'13), a global forum for researchers and practitioners to present and discuss the most recent innovations, trends, results, experiences and concerns in the several perspectives of Information Systems and Technologies. The main topics covered are: Information and Knowledge Management; Organizational Models and Information Systems; Intelligent and Decision Support Systems; Software Systems, Architectures, Applications and Tools; Computer Networks, Mobility and Pervasive Systems; Radar Technologies; and Human-Computer Interaction.**

Recent Advances in Computer Science and Information Engineering Volume 3

Springer Science & Business Media **CSIE 2011 is an international scientific Congress for distinguished scholars engaged in scientific, engineering and technological research, dedicated to build a platform for exploring and discussing the future of Computer Science and Information Engineering with existing and potential application scenarios. The congress has been held twice, in Los Angeles, USA for the first and in Changchun, China for the second time, each of which attracted a large number of researchers from all over the world. The congress turns out to develop a spirit of cooperation that leads to new friendship for addressing a wide variety of ongoing problems in this vibrant area of technology and fostering more collaboration over the world. The congress, CSIE 2011, received 2483 full paper and abstract submissions from 27 countries and regions over the world. Through a rigorous peer review process, all submissions were refereed based on their quality of content, level of innovation, significance, originality and legibility. 688 papers have been accepted for the international congress proceedings ultimately.**

Encyclopedia of Information Science and Technology, Third Edition

IGI Global **"This 10-volume compilation of authoritative, research-based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities, prospective solutions, and future directions in the field of information science and technology"--Provided by publisher.**

Computational Vision and Bio-

Inspired Computing

ICCVBIC 2019

Springer Nature This proceedings book presents state-of-the-art research innovations in computational vision and bio-inspired techniques. Due to the rapid advances in the emerging information, communication and computing technologies, the Internet of Things, cloud and edge computing, and artificial intelligence play a significant role in the computational vision context. In recent years, computational vision has contributed to enhancing the methods of controlling the operations in biological systems, like ant colony optimization, neural networks, and immune systems. Moreover, the ability of computational vision to process a large number of data streams by implementing new computing paradigms has been demonstrated in numerous studies incorporating computational techniques in the emerging bio-inspired models. The book reveals the theoretical and practical aspects of bio-inspired computing techniques, like machine learning, sensor-based models, evolutionary optimization, and big data modeling and management, that make use of effectual computing processes in the bio-inspired systems. As such it contributes to the novel research that focuses on developing bio-inspired computing solutions for various domains, such as human-computer interaction, image processing, sensor-based single processing, recommender systems, and facial recognition, which play an indispensable part in smart agriculture, smart city, biomedical and business intelligence applications.

Artificial Intelligence and Soft Computing

18th International Conference,
ICAISC 2019, Zakopane, Poland,
June 16–20, 2019, Proceedings, Part I

Springer The two-volume set LNCS 11508 and 11509 constitutes the refereed proceedings of of the 18th International Conference on Artificial Intelligence and Soft Computing, ICAISC 2019, held in Zakopane, Poland, in June 2019. The 122 revised full papers presented were carefully reviewed

and selected from 333 submissions. The papers included in the first volume are organized in the following five parts: neural networks and their applications; fuzzy systems and their applications; evolutionary algorithms and their applications; pattern classification; artificial intelligence in modeling and simulation. The papers included in the second volume are organized in the following five parts: computer vision, image and speech analysis; bioinformatics, biometrics, and medical applications; data mining; various problems of artificial intelligence; agent systems, robotics and control.

Advanced Network Technologies and Intelligent Computing

First International Conference,
ANTIC 2021, Varanasi, India,
December 17–18, 2021,
Proceedings

Springer Nature

Advances in Visual Computing

Second International Symposium,
ISVC 2006, Lake Tahoe, NV, USA,
November 6-8, 2006, Proceedings,
Part I

Springer The two volume set LNCS 4291 and LNCS 4292 constitutes the refereed proceedings of the Second International Symposium on Visual Computing, ISVC 2006, held in Lake Tahoe, NV, USA in November 2006. The 65 revised full papers and 56 poster papers presented together with 57 papers of ten special tracks were carefully reviewed and selected from more than 280 submissions. The papers cover the four main areas of visual computing.

The Proceedings of the Second International Conference on Communications, Signal Processing, and Systems

Springer Science & Business Media **The Proceedings of The Second International Conference on Communications, Signal Processing, and Systems provides the state-of-art developments of Communications, Signal Processing, and Systems. The conference covered such topics as wireless communications, networks, systems, signal processing for communications. This book is a collection of contributions coming out of The Second International Conference on Communications, Signal Processing, and Systems (CSPS) held September 2013 in Tianjin, China.**

Advances in Biometric Person Authentication

5th Chinese Conference on Biometric Recognition, SINOBIOMETRICS 2004, Guangzhou, China, December 13-14, 2004, Proceedings

Springer Science & Business Media **This book constitutes the refereed proceedings of the 5th Chinese Conference on Biometric Recognition, SINOBIOMETRICS 2004, held in Guanzhou, China in December 2004. The 60 revised full papers presented together with 14 invited papers by internationally leading researchers were carefully reviewed and selected from 140 submissions. The papers are organized in topical sections on biometrics, best performing biometric engines, face localization, pose estimation, face recognition, 3D based methods, subspace and discriminant analysis, systems and applications, fingerprint preprocessing and minutiae extraction, fingerprint recognition and matching, fingerprint**

classification, iris recognition, speaker recognition, and other biometric primitives.