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Since the debut of the Medicine Meets Virtual Reality (MMVR) conference in 1992, MMVR has served as a forum for researchers harnessing IT advances for the benefit of patient diagnosis and care, medical education and procedural training. At MMVR, virtual reality becomes a theatre for medicine, where multiple senses are engaged - sight, sound and touch - and language and image fuse. Precisely because this theatre is unreal, it is a valuable tool: the risks of experimentation and failure are gone, while the opportunity to understand remains. Improvement of this tool, through steady technological progress, is the purpose of MMVR. This book presents papers delivered at the MMVR18 / NextMed conference, held in Newport Beach, California, in February 2011, with contributions from international researchers whose work creates new devices and methods at the juncture of informatics and medicine. Subjects covered include simulation and learning, visualization and information-guided therapy, robotics and haptics, virtual reality and advanced ICT in Europe, validation of new surgical techniques, and many other applications of virtual-reality technology. As its name suggests, the NextMed conference looks forward to the expanding role that virtual reality can play in global healthcare. This overview of current technology will interest those who dedicate themselves to improving medicine through technology.

This two-volume set (CCIS 1393 and CCIS 1394) constitutes selected and revised

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papers of the 4th International Conference on Advanced Informatics for Computing Research, ICAICR 2020, held in Gurugram, India, in December 2020. The 34 revised full papers and 51 short papers presented were carefully reviewed and selected from 306 submissions. The papers are organized in topical sections on computing methodologies; hardware; networks; security and privacy.

The main objective of ICCSAI2013 is to provide a platform for the presentation of top and latest research results in global scientific areas. The conference aims to provide a high level international forum for researcher, engineers and practitioners to present and discuss recent advances and new techniques in computer science and artificial intelligence. It also serves to foster communications among researcher, engineers and practitioners working in a common interest in improving computer science, artificial intelligence and the related fields. We have received 325 numbers of papers through "Call for Paper", out of which 94 numbers of papers were accepted for publication in the conference proceedings through double blind review process. The conference is designed to stimulate the young minds including Research Scholars, Academicians, and Practitioners to contribute their ideas, thoughts and nobility in these two disciplines. The aim of this publication is to present the research results in robotics that are now state-of-the-art, and indicate the possible future lines of development. To effectively work and cooperate with us, robots must exhibit abilities that are comparable to those of humans. The book describes the ongoing efforts to design and develop human-

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friendly robotic systems that can safely and effectively interact and work with humans. Presents a comprehensive overview and analysis of the recent developments in signal processing for Chipless Radio Frequency Identification Systems This book presents the recent research results on Radio Frequency Identification (RFID) and provides smart signal processing methods for detection, signal integrity, multiple-access and localization, tracking, and collision avoidance in Chipless RFID systems. The book is divided into two sections: The first section discusses techniques for detection and denoising in Chipless RFID systems. These techniques include signal space representation, detection of frequency signatures using UWB impulse radio interrogation, time domain analysis, singularity expansion method for data extraction, and noise reduction and filtering techniques. The second section covers collision and error correction protocols, multi-tag identification through time-frequency analysis, FMCW radar based collision detection and multi-access for Chipless RFID tags as well as localization and tag tracking. Describes the use of UWB impulse radio interrogation to remotely estimate the frequency signature of Chipless RFID tags using the backscatter principle Reviews the collision problem in both chipped and Chipless RFID systems and summarizes the prevailing anti-collision algorithms to address the problem Proposes state-of-the-art multi-access and signal integrity protocols to improve the efficacy of the system in multiple tag reading scenarios Features an industry approach to the integration of various systems of the Chipless RFID reader-integration of physical

layers, middleware, and enterprise software Chipless Radio Frequency Identification Reader Signal Processing is primarily written for researchers in the field of RF sensors but can serve as supplementary reading for graduate students and professors in electrical engineering and wireless communications.

The three-volume set LNCS 8149, 8150, and 8151 constitutes the refereed proceedings of the 16th International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI 2013, held in Nagoya, Japan, in September 2013. Based on rigorous peer reviews, the program committee carefully selected 262 revised papers from 789 submissions for presentation in three volumes. The 86 papers included in the second volume have been organized in the following topical sections: registration and atlas construction; microscopy, histology, and computer-aided diagnosis; motion modeling and compensation; segmentation; machine learning, statistical modeling, and atlases; computer-aided diagnosis and imaging biomarkers; physiological modeling, simulation, and planning; microscope, optical imaging, and histology; cardiology; vasculatures and tubular structures; brain segmentation and atlases; and functional MRI and neuroscience applications.

Smart-textiles developers draw on diverse fields of knowledge to produce unique materials with enhanced properties and vast potential. Several disciplines outside the traditional textile area are involved in the construction of these smart textiles, and each individual field has its own language, specific terms and approaches. Multidisciplinary

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know-how for smart-textiles developers provides a filtered knowledge of these areas of expertise, explaining key expressions and demonstrating their relevance to the smart-textiles field. Following an introduction to the new enabling technologies, commercialisation and market trends that make up the future of smart-textiles development, part one reviews materials employed in the production of smart textiles. Types and processing of electro-conductive and semiconducting materials, optical fibres for smart photonic textiles, conductive nanofibres and nanocoatings, polymer-based resistive sensors, and soft capacitance fibres for touch-sensitive smart textiles are all discussed. Part two then investigates such technologies as the embedding of electronic functions, the integration of thin-film electronics, and the development of organic and large-area electronic (OLAE) technologies for smart textiles. Joining technologies are also discussed, alongside kinetic, thermoelectric and solar energy harvesting technologies, and signal processing technologies for activity-aware smart textiles. Finally, product development and applications are the focus of part three, which investigates strategies for technology management, innovation and improved sustainability, before the book concludes by exploring medical, automotive and architectural applications of smart textiles. With its distinguished editor and international team of expert contributors, Multidisciplinary know-how for smart-textiles developers is a key tool for readers working in industries including design, fashion, textiles, through to electronics, computing and material science. It also provides a useful guide to the

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subject for academics working across a wide range of fields. Reviews materials used in the production of smart textiles Examines the technologies used in smart textiles, such as optical fibres and polymer based resistive sensors Investigates strategies for technology management, innovation and improved development

This book constitutes the thoroughly refereed post-conference proceedings of the 10th International Workshop on Graphics Recognition, GREC 2013, held in Bethlehem, PA, USA, in August 2013. The 20 revised full papers presented were carefully reviewed and selected from 32 initial submissions. Graphics recognition is a subfield of document image analysis that deals with graphical entities in engineering drawings, sketches, maps, architectural plans, musical scores, mathematical notation, tables, and diagrams. Accordingly the conference papers are organized in 5 topical sessions on symbol spotting and retrieval, graphics recognition in context, structural and perceptual based approaches, low level processing, and performance evaluation and ground truthing. This volume includes papers presented at IIH-MSP 2017, the 13th International Conference on Intelligent Information Hiding and Multimedia Signal Processing, held from 12 to 15 August 2017 in Matsue, Shimane, Japan. The conference addresses topics ranging from information hiding and security, and multimedia signal processing and networking, to bio-inspired multimedia technologies and systems. This volume of Smart Innovation, Systems and Technologies focuses on subjects related to massive image/video compression and transmission for emerging networks, advances in speech

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and language processing, 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. Updated with the latest research outcomes and findings, the papers presented appeal to researchers and students who are interested in the corresponding fields.

This volume contains select papers presented during the 1st International Conference on Small Satellites, discussing the latest research and developments relating to small satellite technology. The papers cover various issues relating to design and engineering, ranging from the control, mechanical and thermal systems to the sensors, antennas and RF systems used. The volume will be of interest to scientists and engineers working on or utilizing satellite and space technologies.

This volume presents the proceedings of the Fifth International Conference on the Development of Biomedical Engineering in Vietnam which was held from June 16-18, 2014 in Ho Chi Minh City. The volume reflects the progress of Biomedical Engineering and discusses problems and solutions. It aims at identifying new challenges, and shaping future directions for research in biomedical engineering fields including medical instrumentation, bioinformatics, biomechanics, medical imaging, drug delivery therapy, regenerative medicine and entrepreneurship in medical devices.

These volumes present together a total of 64 revised full papers and 128 revised

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posters papers. The papers are organized in topical sections on camera calibration, stereo and pose, texture, face recognition, variational methods, tracking, geometry and calibration, lighting and focus, in the first volume. The papers of the second volume cover topics as detection and applications, statistics and kernels, segmentation, geometry and statistics, signal processing, and video processing.

From the reviews: "Astronomy and Astrophysics Abstracts has appeared in semi-annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy, astrophysics and neighbouring sciences. It is the most important English-language abstracting journal in the mentioned branches. ...The abstracts are classified under more than a hundred subject categories, thus permitting a quick survey of the whole extended material. The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences. As such it represents a necessary ingredient of any astronomical library all over the world." Space Science Review# "Dividing the whole field plus related subjects into 108 categories, each work is numbered and most are accompanied by brief abstracts. Fairly comprehensive cross-referencing links relevant papers to more than one category, and exhaustive author and subject indices are to be found at the back, making the catalogues easy to use. The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes." The Observatory Magazine#

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Stratospheric balloons are powerful tools used to study the Earth and its atmosphere, as well as the greater cosmos beyond. This book describes the science and technology behind modern stratospheric ballooning, along with the surprising ways it has impacted our daily lives. The book takes you through every step of the process, starting with an in-depth introduction to basic balloon types and their uses before delving into balloon construction and mission planning. Along the way, you will learn about the novel technologies that have radically changed these balloons and their ability to launch, control and navigate them over specific ground targets. Next follows an exploration of their incredible applications, including research in atmospheric science, cosmology and astronomy, earth studies, meteorology, and aerobiology, and also commercial capabilities such as Internet networks and high-altitude tourism. The community of scientists, engineers, and entrepreneurs involved in stratospheric ballooning is only ever growing. This book shows you how these national and international efforts have truly soared in recent years, and it will be an enjoyable read for anybody interested in learning more about how science and commerce are conducted in the stratosphere, at the edge of space.

Optical Wireless Communications for Broadband Global Internet Connectivity: Fundamental and Potential Applications provides a comprehensive overview for readers who require information about the fundamental science behind optical wireless communications, as well as up-to-date advanced knowledge of the state-of-the-art technologies available today. The book

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is a useful resource for scientists, researchers, engineers and students interested in understanding optical, wireless communication systems for global channels. Readers will find beneficial knowledge on how related technologies of optical wireless communications can be integrated into achieving worldwide Internet connectivity. Presents an in-depth coverage of information on optical wireless communication in a single source Combines the fundamentals with the most recent advanced technology of achieving global Internet access and connectivity Provides derivations of the mathematical equations Includes between chapter sections where information and learning from one chapter is connected to other chapters

Stratospheric Balloons Science and Commerce at the Edge of Space Springer Nature

This book systematically introduces the bionic nature of force sensing and control, the biomechanical principle on mechanism of force generation and control of skeletal muscle, and related applications in robotic exoskeleton. The book focuses on three main aspects: muscle force generation principle and biomechanical model, exoskeleton robot technology based on skeletal muscle biomechanical model, and SMA-based bionic skeletal muscle technology. This comprehensive and in-depth book presents the author's research experience and achievements of many years to readers in an effort to promote academic exchanges in this field. About the Author Yuehong Yin received his B.E., M.S. and Ph.D. degrees from Nanjing University of Aeronautics and Astronautics, Nanjing, in 1990, 1995 and 1997, respectively, all in mechanical engineering. From December 1997 to December 1999, he was a Postdoctoral Fellow with Zhejiang University, Hangzhou, China, where he became an Associate Professor in July 1999. Since December 1999, he has been with the Robotics Institute, Shanghai Jiao Tong University, Shanghai, China, where he became a Professor and a Tenure Professor in

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December 2005 and January 2016, respectively. His research interests include robotics, force control, exoskeleton robot, molecular motor, artificial limb, robotic assembly, reconfigurable assembly system, and augmented reality. Dr. Yin is a fellow of the International Academy of Production Engineering (CIRP).

This book constitutes the refereed proceedings of the 8th International Conference on Advanced Concepts for Intelligent Vision Systems, ACIVS 2006, held in Antwerp, Belgium in September 2006. The 45 revised full papers and 65 revised poster papers presented were carefully reviewed and selected from around 242 submissions. The papers are organized in topical sections on noise reduction and restoration, segmentation, motion estimation and tracking, video processing and coding, camera calibration, image registration and stereo matching, biometrics and security, medical imaging, image retrieval and image understanding, as well as classification and recognition.

This book constitutes the proceedings of the 8th International Conference on Intelligence Science and Big Data Engineering, IScIDE 2018, held in Lanzhou, China, in August 2018. The 59 full papers presented in this book were carefully reviewed and selected from 121 submissions. They are grouped in topical sections on robots and intelligent systems; statistics and learning; deep learning; objects and language; classification and clustering; imaging; and biomedical signal processing.?

This book constitutes the refereed proceedings of the workshop held in conjunction with the 28th International Conference on Artificial Intelligence, IJCAI 2019, held in Macao, China, in August 2019: the First International Workshop on Human Brain and Artificial Intelligence, HBAI 2019. The 24 full papers presented were carefully reviewed and selected from 62 submissions.

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The papers are organized according to the following topical headings: computational brain science and its applications; brain-inspired artificial intelligence and its applications. A method is proposed to introduce instrumented balloons into tornadoes by means of the radial pressure gradient, which supplies a buoyancy force driving to the center. Presented are analytical expressions, verified by computer calculations, which show the possibility of introducing instrumented balloons into tornadoes at or below the cloud base. The times required to reach the center are small enough that a large fraction of tornadoes are suitable for the technique. An experimental procedure is outlined in which a research airplane puts an instrumented, self-inflating balloon on the track ahead of the tornado. The uninflated balloon waits until the tornado closes to, typically, 750 meters; then it quickly inflates and spirals up and into the core, taking roughly 3 minutes. Since the drive to the center is automatically produced by the radial pressure gradient, a proper launch radius is the only guidance requirement.

This book contains 31 selected papers (out of 136 accepted) from the 9th Scandinavian Conference on Image Analysis, held in Uppsala, Sweden, 6–9 June 1995. They represent the very best of what is currently done in image analysis, world-wide, describing very recent work. The papers have been both considerably expanded and updated compared to the version in the conference proceedings, giving the readers a much better understanding of the issues at hand. The papers cover both theory and successful applications. There are chapters on Edges and Curves, Texture, Depth and Stereo, Scene Analysis, and 3D Motion, thus covering the chain from feature extraction

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to computer vision. Two important application areas are covered: Medical and Industrial. Contents: Edges and Curves Texture Depth and Stereo Scene Analysis 3D Motion Biomedical Applications Industrial Applications Readership: Computer scientists and electrical engineers. keywords: Image Processing; Image Analysis; Computer Vision; Edges; Curves; Texture; Stereo; Motion; Biomedical Application; Industrial Applications

The book reports on advanced topics in the areas of wearable robotics research and practice. It focuses on new technologies, including neural interfaces, soft wearable robots, sensors and actuators technologies, and discusses important regulatory challenges, as well as clinical and ethical issues. Based on the 2nd International Symposium on Wearable Robotics, WeRob2016, held October 18-21, 2016, in Segovia, Spain, the book addresses a large audience of academics and professionals working in government, industry, and medical centers, and end-users alike. It provides them with specialized information and with a source of inspiration for new ideas and collaborations. It discusses exemplary case studies highlighting practical challenges related to the implementation of wearable robots in a number of fields. One of the focus is on clinical applications, which was encouraged by the collocation of WeRob2016 with the International Conference on Neurorehabilitation, INCR2016. Additional topics include space applications and assistive technologies in the industry. The book merges together the engineering, medical, ethical and political perspectives, thus offering a

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multidisciplinary, timely snapshot of the field of wearable technologies.

21st Century Education: A Reference Handbook offers 100 chapters written by leading experts in the field that highlight the most important topics, issues, questions, and debates facing educators today. This comprehensive and authoritative two-volume work provides undergraduate education majors with insight into the rich array of issues inherent in education—issues informing debates that involve all Americans. Key

Features:

- Provides undergraduate majors with an authoritative reference source ideal for their classroom research needs, preparation for GREs, and research into directions to take in pursuing a graduate degree or career
- Offers more detailed information than encyclopedia entries, but not as much jargon, detail, or density as journal articles or research handbook chapters
- Explores educational policy and reform, teacher education and certification, educational administration, curriculum, and instruction
- Offers a reader-friendly common format: Theory, Methods, Applications, Comparison, Future Directions, Summary, References and Further Readings

21st Century Education: A Reference Handbook is designed to prepare teachers, professors, and administrators for their future careers, informing the debates and preparing them to address the questions and meet the challenges of education today.

This book constitutes selected and revised papers of the 5th International Conference on Space Information Networks, SINC 2020, held in Shenzhen, China, in December 2020. The 11 full and 2 short papers presented in this volume were carefully reviewed

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and selected from 104 submissions. The papers present the latest research in the fields of space information networks.

Mathematical methods has been a dominant research path in computational vision leading to a number of areas like filtering, segmentation, motion analysis and stereo reconstruction. Within such a branch visual perception tasks can either be addressed through the introduction of application-driven geometric flows or through the minimization of problem-driven cost functions where their lowest potential corresponds to image understanding. The 3rd IEEE Workshop on Variational, Geometric and Level Set Methods focused on these novel mathematical techniques and their applications to computer vision problems. To this end, from a substantial number of submissions, 30 high-quality papers were selected after a fully blind review process covering a large spectrum of computer-aided visual understanding of the environment. The papers are organized into four thematic areas: (i) Image Filtering and Reconstruction, (ii) Segmentation and Grouping, (iii) Registration and Motion Analysis and (iiii) 3D and Reconstruction. In the first area solutions to image enhancement, inpainting and compression are presented, while more advanced applications like model-free and model-based segmentation are presented in the segmentation area. Registration of curves and images as well as multi-frame segmentation and tracking are part of the motion understanding track, while introducing computational processes in manifolds, shape from shading, calibration and stereo

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reconstruction are part of the 3D track. We hope that the material presented in the proceedings exceeds your expectations and will influence your research directions in the future. We would like to acknowledge the support of the Imaging and Visualization Department of Siemens Corporate Research for sponsoring the Best Student Paper Award.

The two volume set LNCS 4841 and LNCS 4842 constitutes the refereed proceedings of the Third International Symposium on Visual Computing, ISVC 2007, held in Lake Tahoe, NV, USA, in November 2007. The 77 revised full papers and 42 poster papers presented together with 32 full and five poster papers of six special tracks were carefully reviewed and selected. The papers cover the four main areas of visual computing: vision, graphics, visualization, and virtual reality.

In *Atmospheric Things* Derek P. McCormack explores how atmospheres are imagined, understood, and experienced through experiments with a deceptively simple object: the balloon. Since the invention of balloon flight in the late eighteenth century, balloons have drawn crowds at fairs and expositions, inspired the visions of artists and writers, and driven technological development from meteorology to military surveillance. By foregrounding the distinctive properties of the balloon, McCormack reveals its remarkable capacity to disclose the affective and meteorological dimensions of atmospheres. Drawing together different senses of the object, the elements, and experience, McCormack uses the balloon to show how practices and technologies of

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envelopment allow atmospheres to be generated, made meaningful, and modified. He traces the alluring entanglement of envelopment in artistic, political, and technological projects, from the 2009 Pixar movie *Up* and Andy Warhol's 1966 installation *Silver Clouds* to the use of propaganda balloons during the Cold War and Google's experiments with delivering internet access with stratospheric balloons. In so doing, McCormack offers new ways to conceive of, sense, and value the atmospheres in which life is immersed.

This book constitutes the thoroughly refereed post-conference proceedings of the 11th International Workshop on Graphics Recognition, GREC 2015, held in Nancy, France, in August 2015. The 10 revised full papers presented were carefully reviewed and selected from 19 initial submissions. They contain both classical and emerging topics of Graphics Recognition, namely symbol spotting; recognition in context; perceptual based approaches and grouping; low level processing; off-line to on-line and interactive systems; structure based approaches; performance evaluation and ground truthing; content based retrieval.

This book constitutes the proceedings of the Second International Conference on Space Information Network, SINC 2017, held in Yinchuan, China, in August 2017. The 27 full and three short papers presented in this volume were carefully

reviewed and selected from 145 submissions. The papers are organized in topical sections on system architecture and efficient networking mechanism; theory and method of high speed transmission; sparse representation and fusion processing.

This book is a systematic summary of some new advances in the area of nonlinear analysis and design in the frequency domain, focusing on the application oriented theory and methods based on the GFRF concept, which is mainly done by the author in the past 8 years. The main results are formulated uniformly with a parametric characteristic approach, which provides a convenient and novel insight into nonlinear influence on system output response in terms of characteristic parameters and thus facilitate nonlinear analysis and design in the frequency domain. The book starts with a brief introduction to the background of nonlinear analysis in the frequency domain, followed by recursive algorithms for computation of GFRFs for different parametric models, and nonlinear output frequency properties. Thereafter the parametric characteristic analysis method is introduced, which leads to the new understanding and formulation of the GFRFs, and nonlinear characteristic output spectrum (nCOS) and the nCOS based analysis and design method. Based on the parametric characteristic approach, nonlinear influence in the frequency domain can be investigated with a novel

insight, i.e., alternating series, which is followed by some application results in vibration control. Magnitude bounds of frequency response functions of nonlinear systems can also be studied with a parametric characteristic approach, which result in novel parametric convergence criteria for any given parametric nonlinear model whose input-output relationship allows a convergent Volterra series expansion. This book targets those readers who are working in the areas related to nonlinear analysis and design, nonlinear signal processing, nonlinear system identification, nonlinear vibration control, and so on. It particularly serves as a good reference for those who are studying frequency domain methods for nonlinear systems.

This book constitutes the refereed proceedings of the 27th International Conference on Case-Based Reasoning Research and Development, ICCBR 2019, held in Otzenhausen, Germany, in September 2019. The 26 full papers presented in this book were carefully reviewed and selected from 43 submissions. 15 were selected for oral presentation and 11 for poster presentation. The theme of ICCBR 2019, "Explainable AI (XAI)," was highlighted by several activities. These papers, which are included in the proceedings, address many themes related to the theory and application of case-based reasoning and its future direction.

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This book covers all aspects of robot intelligence from perception at sensor level and reasoning at cognitive level to behavior planning at execution level for each low level segment of the machine. It also presents the technologies for cognitive reasoning, social interaction with humans, behavior generation, ability to cooperate with other robots, ambience awareness, and an artificial genome that can be passed on to other robots. These technologies are to materialize cognitive intelligence, social intelligence, behavioral intelligence, collective intelligence, ambient intelligence and genetic intelligence. The book aims at serving researchers and practitioners with a timely dissemination of the recent progress on robot intelligence technology and its applications, based on a collection of papers presented at the 4th International Conference on Robot Intelligence Technology and Applications (RiTA), held in Bucheon, Korea, December 14 - 16, 2015. For better readability, this edition has the total of 49 articles grouped into 3 chapters: Chapter I: Ambient, Behavioral, Cognitive, Collective, and Social Robot Intelligence, Chapter II: Computational Intelligence and Intelligent Design for Advanced Robotics, Chapter III: Applications of Robot Intelligence Technology . This book constitutes the thoroughly refereed post-proceedings of the 9th International Conference on Visual Information Systems, VISUAL 2007, held in Shanghai, China, in June 2007. The papers are organized in topical section on

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image and video retrieval, visual biometrics, intelligent visual information processing, visual data mining, ubiquitous and mobile visual information systems, semantics, 2D/3D graphical visual data retrieval, and applications of visual information systems.

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