
Face Parts Extraction Windows Based On Bilateral Symmetry

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Image Analysis and Recognition
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Censorship, Surveillance, and Privacy: Concepts, Methodologies, Tools, and Applications
The Application of Artificial Intelligence
Multimedia, Computer Graphics and Broadcasting, Part I
Bio-inspired Systems and Applications: from Robotics to Ambient Intelligence
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Image Fusion and Its Applications

PITTS HOGAN

Advances in Neural Networks - ISNN 2009 Springer

The two volume set, consisting of LNCS 7728 and 7729, contains the carefully reviewed and selected papers presented at the nine workshops that were held in conjunction with the 11th Asian Conference on Computer Vision, ACCV 2012, in Daejeon, South Korea, in November 2012. From a total of 310 papers submitted, 78 were selected for presentation. LNCS 7728 contains the papers selected for the International Workshop on Computer Vision with Local Binary Pattern Variants, the Workshop on Computational Photography and Low-Level Vision, the Workshop on Developer-Centered Computer Vision, and the Workshop on Background Models Challenge. LNCS 7729 contains the papers selected for the Workshop on e-Heritage, the Workshop on Color Depth Fusion in Computer Vision, the Workshop on Face Analysis, the Workshop on Detection and Tracking in Challenging Environments, and the International Workshop on Intelligent Mobile Vision.

IT Based Manufacturing European Alliance for Innovation

This is the second of a two-volume set that constitutes the refereed proceedings of the Symposium on Human Interface 2007, held in Beijing, China in July 2007. It covers communication and collaboration, knowledge, learning and education, mobile interaction, interacting with the world wide web and electronic services, business management and industrial applications, as well as environment, transportation and safety.

Computer Vision - ACCV 2012 Workshops IGI Global

This book contains extended and revised versions of the best papers presented at the 23rd IFIP WG 10.5/IEEE International Conference on Very Large Scale Integration, VLSI-SoC 2015, held in Daejeon, Korea, in October 2015. The 10 papers included in the book were carefully reviewed and selected from the 44 full papers presented at the conference. The papers cover a wide range of topics in VLSI technology and advanced research. They address the current trend toward increasing chip integration and technology process advancements bringing about new challenges

both at the physical and system-design levels, as well as in the test of these systems.

VLSI-SoC: Design for Reliability, Security, and Low Power Springer

This book brings together papers from the 2018 International Conference on Communications, Signal Processing, and Systems, which was held in Dalian, China on July 14-16, 2018. Presenting the latest developments and discussing the interactions and links between these multidisciplinary fields, the book spans topics ranging from communications, signal processing and systems. It is aimed at undergraduate and graduate electrical engineering, computer science and mathematics students, researchers and engineers from academia and industry as well as government employees.

Digital Hampi: Preserving Indian Cultural Heritage Springer

This book provides an overview of state-of-the-art methods in computational engineering for modeling and simulation. This proceedings volume includes a selection of refereed papers presented at the International Conference on Advances in Computational Mechanics (ACOME) 2017, which took place on Phu Quoc Island, Vietnam on August 2-4, 2017. The contributions highlight recent advances in and innovative applications of computational mechanics. Subjects covered include: biological systems; damage, fracture and failure; flow problems; multiscale multiphysics problems; composites and hybrid structures; optimization and inverse problems; lightweight structures; computational mechatronics; computational dynamics; numerical methods; and high-performance computing. The book is intended for academics, including graduate students and experienced researchers interested in state-of-the-art computational methods for solving challenging problems in engineering.

Iris Biometrics Springer

The book represents the culmination of a hugely successful heritage preservation project initiated by the Government of India's Department of Science and Technology. It presents extensive research on the digital preservation of the history, mythology, art, architecture and culture of the world heritage site Hampi in Karnataka, the seat of the Vijayanagara dynasty in

medieval India. Further, the book introduces readers to a range of techniques developed by Indian technical research groups for digitally preserving both the tangible and intangible cultural heritage of the region. These techniques are sufficiently generic to be applied in heritage preservation efforts for other historical sites around the world as well. Technological advances have made it possible to not only create digital archives of these heritage artifacts, but to also share these resources for people to view, explore, experience, and analyze. This book showcases how cutting-edge technology can be combined with cultural and historical research to digitize and preserve heritage. It is the consolidation of work conducted under the Indian Digital Heritage project, a unique initiative of the Department of Science & Technology (DST), Government of India. The project involved collaboration between researchers in the areas of Technology, Computer Science, Architecture and the Humanities for the digital documentation and interpretation of India's tangible and intangible heritage. It highlights the art, architecture, and cultural legacy of the world heritage site of Hampi in Karnataka, the medieval capital of the 14th-16th century Vijayanagara dynasty. The contributors to this book are scientists and technology experts from prominent academic institutes in India such as the IITs (Indian Institutes of Technology), NIIT, and NID (National Institute of Design) working in collaboration with some of India's top architects, art historians, anthropologists, heritage groups and multi-disciplinary cultural institutions such as the National Institute of Advanced Studies (NIAS). Their papers will introduce readers to cutting-edge technologies from research areas such as computer vision, 3D modeling and artificial intelligence as they are employed to preserve art and culture in the digital domain. The book is divided into four parts. Part 1 details efforts and techniques for modeling and representing the tangible heritage of Hampi, such as the reconstruction of damaged structures, realistic walk-throughs, and haptic rendering. Part 2 includes chapters detailing the analysis and digital restoration of artifacts such as mural paintings, inscriptions and sculptures, as well as mobile-based visual search for artifacts. Part 3 includes chapters on conjectural re-constructions of the architectural life, social life

and traditions of Hampi. Lastly, Part 4 addresses the knowledge-based archiving and exploration of cultural heritage.

Human Interface and the Management of Information. Interacting in Information Environments Springer Science & Business Media

The deployment of intelligent systems to tackle complex processes is now commonplace in many fields from medicine and agriculture to industry and tourism. This book presents scientific contributions from the 1st International Conference on Applications of Intelligent Systems (APPIS 2018) held at the Museo Elder in Las Palmas de Gran Canaria, Spain, from 10 to 12 January 2018. The aim of APPIS 2018 was to bring together scientists working on the development of intelligent computer systems and methods for machine learning, artificial intelligence, pattern recognition, and related techniques with an emphasis on their application to various problems. The 34 peer-reviewed papers included here cover an extraordinarily wide variety of topics – everything from semi-supervised learning to matching electro-chemical sensor information with human odor perception – but what they all have in common is the design and application of intelligent systems and their role in tackling diverse and complex challenges. The book will be of particular interest to all those involved in the development and application of intelligent systems.

New Trends in Image Analysis and Processing, ICIAP 2013 Workshops Springer

This book constitutes the refereed proceedings of the workshops held with the 17th International Conference on Image Analysis and Processing, ICIAP 2013, held in Naples, Italy, in September 2013. The proceedings include papers from the five individual workshops focusing on topics of interest to the pattern recognition, image analysis, and computer vision communities, exploring emergent research directions or spotlight cross-disciplinary links with related fields and / or application areas.

Computer Vision – ECCV 2012 Springer Science & Business Media

This highly anticipated new edition provides a comprehensive account of face recognition research and technology, spanning the full range of topics needed for designing operational face recognition systems. After a thorough introductory chapter, each of the following chapters focus on a specific topic, reviewing background information, up-to-date techniques, and recent

results, as well as offering challenges and future directions. Features: fully updated, revised and expanded, covering the entire spectrum of concepts, methods, and algorithms for automated face detection and recognition systems; provides comprehensive coverage of face detection, tracking, alignment, feature extraction, and recognition technologies, and issues in evaluation, systems, security, and applications; contains numerous step-by-step algorithms; describes a broad range of applications; presents contributions from an international selection of experts; integrates numerous supporting graphs, tables, charts, and performance data.

Biometrics—Advances in Research and Application: 2013 Edition Springer Nature

This two-volume set LNCS 6691 and 6692 constitutes the refereed proceedings of the 11th International Work-Conference on Artificial Neural Networks, IWANN 2011, held in Torremolinos-Málaga, Spain, in June 2011. The 154 revised papers were carefully reviewed and selected from 202 submissions for presentation in two volumes. The second volume includes 76 papers organized in topical sections on video and image processing; hybrid artificial neural networks: models, algorithms and data; advances in machine learning for bioinformatics and computational biomedicine; biometric systems for human-machine interaction; data mining in biomedicine; bio-inspired combinatorial optimization; applying evolutionary computation and nature-inspired algorithms to formal methods; recent advances on fuzzy logic and soft computing applications; new advances in theory and applications of ICA-based algorithms; biological and bio-inspired dynamical systems; and interactive and cognitive environments. The last section contains 9 papers from the International Workshop on Intelligent Systems for Context-Based Information Fusion, ISCIF 2011, held at IWANN 2011.

Biometric Recognition Springer

This book constitutes the thoroughly refereed post-conference proceedings of the 7th Pacific Rim Symposium on Image and Video Technology, PSIVT 2015, held in Auckland, New Zealand, in November 2015. The total of 61 revised papers was carefully reviewed and selected from 133 submissions. The papers are organized in topical sections on color and motion, image/video coding and transmission, computational photography and arts,

computer vision and applications, image segmentation and classification, video surveillance, biomedical image processing and analysis, object and pattern recognition, computer vision and pattern recognition, image/video processing and analysis, and pattern recognition.

Computer Vision -- ACCV 2009 Springer

The two-volume set IFIP AICT 363 and 364 constitutes the refereed proceedings of the 12th International Conference on Engineering Applications of Neural Networks, EANN 2011, and the 7th IFIP WG 12.5 International Conference, AIAI 2011, held jointly in Corfu, Greece, in September 2011. The 52 revised full papers and 28 revised short papers presented together with 31 workshop papers were carefully reviewed and selected from 150 submissions. The first volume includes the papers that were accepted for presentation at the EANN 2011 conference. They are organized in topical sections on computer vision and robotics, self organizing maps, classification/pattern recognition, financial and management applications of AI, fuzzy systems, support vector machines, learning and novel algorithms, reinforcement and radial basis function ANN, machine learning, evolutionary genetic algorithms optimization, Web applications of ANN, spiking ANN, feature extraction minimization, medical applications of AI, environmental and earth applications of AI, multi layer ANN, and bioinformatics. The volume also contains the accepted papers from the Workshop on Applications of Soft Computing to Telecommunication (ASCOTE 2011), the Workshop on Computational Intelligence Applications in Bioinformatics (CIAB 2011), and the Second Workshop on Informatics and Intelligent Systems Applications for Quality of Life Information Services (ISQLIS 2011).

Computational Collective Intelligence Springer

This two-volume set (LNAI 11683 and LNAI 11684) constitutes the refereed proceedings of the 11th International Conference on Computational Collective Intelligence, ICCCI 2019, held in Hendaye France, in September 2019. The 117 full papers presented were carefully reviewed and selected from 204 submissions. The papers are grouped in topical sections on: knowledge engineering and semantic web; social networks and recommender systems; text processing and information retrieval; data mining methods and applications; computer vision techniques; decision support and control systems; cooperative

strategies for decision making and optimization; intelligent modeling and simulation approaches for real world systems; and innovations in intelligent systems.

Applications of Intelligent Systems Springer Science & Business Media

This book contains the proceedings of the 3rd International Conference on New Media Development and Modernized Education (NMDME 2023) which was held in a hybrid form from October 13th to 15th, 2023. The conference topics include Educational Sciences, Innovative Applications of Teaching Technology, Modernized Vocational Education, Digital Media Technology, Digital Media Technology and Applications, Virtual Technology and Intelligent Media Communication, Computational Communication, and Smart Media. The conference provided a platform for discussing scientific research findings and cutting-edge technologies in the fields of new media development and modernized education to encourage collaboration in the industrialization of academic achievements. We invited specialists and intellectuals to attend the conference, sharing their excellent contributions and perspectives in the speeches. We hope that the scientific attitudes and skills developed through research will encourage scholars worldwide to contribute to the development of knowledge generated by research. Finally, we would like to express our gratitude to the conference chair, publication chairs, technical program committee chairs, local organizing chairs, program committee chairs, conference secretariat, and conference sponsors for their financial support, which made the successful organization of NMDME 2023 possible. We hope that this conference will continue to be held in the coming years, publishing more insightful articles with inspiring research.

Advances in Computer Vision and Information Technology
Springer

It gives us great pleasure to present the proceedings of the 9th Asian Conference on Computer Vision (ACCV 2009), held in Xi'an, China, in September 2009. This was the first ACCV conference to take place in mainland China. We received a total of 670 full submissions, which is a new record in the ACCV series. Overall, 35 papers were selected for oral presentation and 131 as posters, yielding acceptance rates of 5.2% for oral, 19.6% for poster, and 24.8% in total. In the paper reviewing, we continued the tradition of previous ACCVs by conducting the process in a double-

blind manner. Each of the 33 Area Chairs received a pool of about 20 papers and nominated a number of potential reviewers for each paper. Then, Program Committee Chairs allocated at least three reviewers to each paper, taking into consideration any conflicts of interest and the balance of loads. Once the reviews were finished, the Area Chairs made

summary reports for the papers in their pools, based on the reviewers' comments and on their own assessments of the papers.

Digital Heritage Reconstruction Using Super-resolution and inpainting Springer

This book constitutes the refereed proceeding of the 7th International Conference on Flexible Query Answering Systems, FQAS 2006, held in Milan, Italy in June 2006. The 60 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on flexibility in database management and querying, vagueness and uncertainty in XML querying and retrieval, information retrieval and filtering, multimedia information access, user modeling and personalization, knowledge and data extraction, intelligent information extraction from text, and knowledge representation and reasoning.

Advances in Computational Intelligence Springer

This book presents a unique, understandable view of machine learning using many practical examples and access to free professional software and open source code. The user-friendly software can immediately be used to apply everything you learn in the book without the need for programming. After an introduction to machine learning and artificial intelligence, the chapters in Part II present deeper explanations of machine learning algorithms, performance evaluation of machine learning models, and how to consider data in machine learning environments. In Part III the author explains automatic speech recognition, and in Part IV biometrics recognition, face- and speaker-recognition. By Part V the author can then explain machine learning by example, he offers cases from real-world applications, problems, and techniques, such as anomaly detection and root cause analyses, business process improvement, detecting and predicting diseases, recommendation AI, several engineering applications, predictive maintenance, automatically classifying datasets, dimensionality reduction, and image recognition. Finally, in Part VI he offers a

detailed explanation of the AI-TOOLKIT, software he developed that allows the reader to test and study the examples in the book and the application of machine learning in professional environments. The author introduces core machine learning concepts and supports these with practical examples of their use, so professionals will appreciate his approach and use the book for self-study. It will also be useful as a supplementary resource for advanced undergraduate and graduate courses on machine learning and artificial intelligence.

Computer Science And Technology - Proceedings Of The International Conference (Cst2016) Springer Nature

Sleep medicine has been developing for more than 40 years. The current concepts in sleep technology are mainly centered on polysomnography (PSG) and issues related to sleep technicians. However, the editors believe that the true value of technology is revealed only when benefits to humanity are manifest. To this end, they endeavor to create a new era in sleep technology, one that will improve the quality of people's sleep and daily lives. This edited book, *Introduction to Modern Sleep Technology*, provides a comprehensive reference volume to the latest advancements in the area of Sleep Technology. It offers an excellent range of insights and opinions from leading researchers and experts in multiple disciplines spanning academia, clinical practice and industry. Up-to-date insights into the current research topics in this field are featured in addition to the latest technological advances with reference to appropriate working examples. The current book combines the five dimensions of knowledge, i.e., sleep medicine, clinical psychology engineering, industrial design and technology management to ensure the content is applicable to people's daily lives.

Recent Developments in Intelligent Computing, Communication and Devices Springer Science & Business Media

This volume presents the articles accepted for the 8th International Conference on Computer Analysis of Images and Patterns (CAIP'99), held in Ljubljana, Slovenia, 1-3 September 1999. The CAIP series of conferences started 14 years ago in Berlin. The series served initially as a forum for meetings between scientists from Western and Eastern-bloc countries. Political circumstances have changed dramatically since the inception of the conference and such contacts are fortunately no longer

subject to abstract. While CAIP conferences are still rooted in Central Europe, they now attract participants from all over the world. We received 120 submissions, which went through a thorough double blind review process by the program committee members who, had the option of - signing additional reviewers. The final program consists of 47 oral and 27 poster presentations, with authors from 25 different countries. The proceedings also include 2 of the 5 invited lectures given at the conference. In the name of the steering committee we would like to thank the program committee members and the additional reviewers for

their time and efforts. Our thanks also go to the authors for their cooperation and meeting of all deadlines. Introduction to Modern Sleep Technology Alpha Science Int'l Ltd. Biometrics—Advances in Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about ZZZAdditional Research in a concise format. The editors have built Biometrics—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about ZZZAdditional Research in this book

to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Biometrics—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.