

Digital Image Warping

Image Processing for Computer Graphics and Vision Luiz Velho 2009-04-29 Image processing is concerned with the analysis and manipulation of images by computer. Providing a thorough treatment of image processing with an emphasis on those aspects most used in computer graphics, the authors concentrate on describing and analyzing the underlying concepts rather than on presenting algorithms or pseudocode. As befits a modern introduction to this topic, a good balance is struck between discussing the underlying mathematics and the main topics: signal processing, data discretization, the theory of colour and different colour systems, operations in images, dithering and half-toning, warping and morphing and image processing. This second edition reflects recent trends in science and technology that exploit image processing in computer graphics and vision applications. Stochastic image models and statistical methods for image processing are covered as are: A modern approach and new developments in the area, Probability theory for image processing, Applications in image analysis and computer vision.

Biometric Inverse Problems Svetlana N. Yanushkevich 2018-10-08 Traditional methods of biometric analysis are unable to overcome the limitations of existing approaches, mainly due to the lack of standards for input data, privacy concerns involving use and storage of actual biometric data, and unacceptable accuracy. Exploring solutions to inverse problems in biometrics transcends such limits and allows rich analysis of biometric information and systems for improved performance and testing. Although some particular inverse problems appear in the literature, until now there has been no comprehensive reference for these problems. *Biometric Inverse Problems* provides the first comprehensive treatment of biometric data synthesis and modeling. This groundbreaking reference comprises eight self-contained chapters that cover the principles of biometric inverse problems; basics of data structure design; new automatic synthetic signature, fingerprint, and iris design; synthetic faces and DNA; and new tools for biometrics based on Voronoi diagrams. Based on the authors' vast experience in the field, the book authoritatively examines new approaches and methodologies in both direct and inverse biometrics, providing invaluable analytical and benchmarking tools. The authors include case studies, examples, and implementation codes for practical illustration of the methods. Loaded with approximately 200 figures, 60 problems, 50 MATLAB® code fragments, and 200 examples, *Biometric Inverse Problems* sets the standard for innovation and authority in biometric data synthesis, modeling, and analysis.

Proceedings of the 2022 3rd International Conference on Artificial Intelligence and Education (IC-ICAIE 2022) Bob Fox 2024-03-14 This is an open access book. The 2022 3rd International Conference on Artificial Intelligence and Education (ICAIE 2022) will be held in Chengdu, China during June 24-26, 2022. The meeting focused on the new trends in the development of "artificial intelligence" and "education" under the new situation, and jointly discussed how to empower and promote the high-quality development of "artificial intelligence" and "education". An ideal platform to share views and experiences with industry experts. The conference invites experts and scholars in the field to conduct wonderful exchanges based on their own research results based on the development of the times. The themes are around artificial intelligence technology and applications; intelligent and knowledge-based systems; information-based education; intelligent learning; advanced information theory and neural network technology; software computing and algorithms; intelligent algorithms and computing and many other topics.

Advances in Computer Vision and Information Technology 2013-12-30 The latest trends in information technology represent a new intellectual paradigm for scientific exploration and the visualization of scientific phenomena. This title covers the emerging technologies in the field. Academics, engineers, industrialists, scientists and researchers engaged in teaching, and research and development of computer science and information technology will find the book useful for their academic and research work.

Dr. Dobb's Journal of Software Tools for the Professional Programmer 1993

Digital Image Warping Mark Sebastian Lohmeyer 1996

Digital Image Warping [microform] Sydney Lee 1994

Digital Image Warping George Wolberg 1990-08-10 This best-selling, original text focuses on image reconstruction, real-time texture mapping, separable algorithms, two-pass transforms, mesh warping, and special effects. The text, containing all original material, begins with the history of the field and continues with a review of common terminology, mathematical preliminaries, and digital image acquisition. Later chapters discuss equations for spatial information, interpolation kernels, filtering problems, and fast-warping techniques based on scanline algorithms.

Comp Euro 1993

Image Analysis and Processing Alberto del Bimbo 1997-09-03 This book is part of the refereed 2-volume proceedings of the 9th International Conference on Image Analysis and Processing, ICIAP'97, held in Florence, Italy, September 1997. Both volumes together present several keynote contributions and 173 revised papers selected from over 300 submissions. The contributing authors (more than 400 in number) provide a wealth of new results in the areas of image analysis, pattern recognition and computer vision. Among the basic topics covered are image enhancement, image segmentation, image compression, motion analysis, object recognition, image understanding, and special hardware architectures and systems, etc. Among the application areas covered are biomedical imaging, character recognition, safety and surveillance, object identification, etc.

Proceedings 1993 ISTCS DEGREES93 was sponsored by the Israel Academy of Sciences and Humanities and held in Natanya, Israel, June 1993. In addition to the 32 papers reporting on recent research, the proceedings include the three invited talks on efficient interactive proofs and applications to approximation (Shafi G

Real-time Imaging 1997

VLSI-SoC: From Algorithms to Circuits and System-on-Chip Design Andreas Burg 2013-11-26 This book contains extended and revised versions of the best papers presented at the 20th IFIP WG 10.5/IEEE International Conference on Very Large Scale Integration, VLSI-SoC 2012, held in Santa Cruz, CA, USA, in October 2012. The 12 papers included in the book were carefully reviewed and selected from the 33 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 stimulating new challenges both at the physical and system-design levels, as well as in the test of these systems.

Digital Image Warping George Wolberg 1988

Image Processing and Transputers Hugh C. Webber 1992

Transputer Applications Mike R. Jane 1992 The symposium held in Reading in March 1992 celebrated the completion of a 5-year Initiative in the Engineering Applications of Transputers. It reviewed achievements in a range of applications and supporting fields and predicted future developments. This book represents a collection of articles presented at this meeting, as well as independent reviews of the Transputer Initiative. **Pattern Recognition, 11th International Conference** 1992

Proceedings IEEE Computer Society 1992 The proceedings of ISMVL-92, held in Sendai, Japan, May 1992, comprise, in addition to 59 contributed papers, five invited presentations: High-Speed Digital Circuits for a Josephson Computer by S. Hasuo; On the Performance of Multivalued Integrated Circuits--Past, Present and Future by D. Etiemble;

Systems Network Architecture (SNA) Networks Edwin R. Coover 1992

Computational Science - ICCS 2009 Gabrielle Allen 2009-05-21 "There is something fascinating about science. One gets such wholesale returns of conjecture out of such a trifling investment of fact." Mark Twain, *Life on the Mississippi* The challenges in succeeding with computational science are numerous and deeply affect all disciplines. NSF's 2006 Blue Ribbon Panel of Simulation-Based Engineering Science (SBES) states 'researchers and educators [agree]: computational and simulation engineering sciences are fundamental to the security and welfare of the United States. . . We must overcome difficulties inherent in multiscale modeling, the development of next-generation algorithms, and the design. . . of dynamic data-driven application systems. . . We must determine better ways to integrate data-intensive computing, visualization, and simulation. - portantly, we must overhaul our educational system to foster the interdisciplinary study. . . The payoff for meeting these challenges are profound. "The

International Conference on Computational Science 2009 (ICCS 2009) explored how computational sciences are not only advancing the traditional hard science disciplines, but also stretching beyond, with applications in the arts, humanities, media and all aspects of research. This interdisciplinary conference drew academic and industry leaders from a variety of fields, including physics, astronomy, mathematics, music, digital media, biology and engineering. The conference also hosted computer and computational scientists who are designing and building the fiber infrastructure necessary for next-generation computing. Discussions focused on innovative ways to collaborate and how computational science is changing the future of research. ICCS 2009: 'Compute. Discover. Innovate.' was hosted by the Center for Computation and Technology at Louisiana State University in Baton Rouge.

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