

<<Advances in Visual C>>

图书基本信息

书名：<<Advances in Visual Computing可视计算进展/会议录>>

13位ISBN编号：9783540307501

10位ISBN编号：3540307508

出版时间：2006-1

出版单位：湖北辞书出版社

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页数：755

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内容概要

This book constitutes the refereed proceedings of the First International Symposium on Visual Computing, ISVC 2005, held in Lake Tahoe, NV, USA in December 2005. The 33 revised full papers and 26 poster papers presented together with 5 keynote presentations and 1 invited talk were carefully reviewed and selected from 110 submissions. The papers are rounded off by 32 presentations held at seven special tracks. The papers cover the four main areas of visual computing: vision, graphics, visualization, and virtual reality. Topics addressed are computer graphics, medical imaging, computer vision methods for ambient intelligence, virtual reality and medicine, pattern analysis and recognition applications in biometrics, visualization, mediated reality, visual surveillance in challenging environments, low level vision, encoding and compression, segmentation, recognition and reconstruction, motion, text extraction and retrieval, intelligent vehicles and autonomous navigation, and visualization techniques in geophysical science.

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书籍目录

An NPR Technique for Pointillistic and Mosaic Images with Impressionist Color Arrangement
 Active View Optimization for Viewing Objects in Motion
 Adding Hand Motion to the Motion Capture Based Character Animation
 Oversimplified Euler Operators for a Non-oriented, Non-manifold B-Rep Data Structure
 The Number of Gaps in Binary Pictures
 Video Codec for Classical Cartoon Animations with Hardware Accelerated Playback
 Retinal Image Registration for NIH's ETDRS
 Using Multimodal MR Data for Segmentation and Topology Recovery of the Cerebral Superficial Venous Tree
 Loop Removal from Colon Central Path Through Skeleton Scale-Space Tracking
 Multiscale Segmentation of HRCT Images Using Bipolar Incoherent Filtering
 Building Statistical Atlas of White Matter Fiber Tract Based on Vector/Tensor Field Reconstruction in Diffusion Tensor MRI
 Interactive 3D Heart Chamber Partitioning with a New Marker-Controlled Watershed Algorithm
 Inferring Cause/Effect Relationships in Multi-sensor Ambient Intelligence Systems
 Toward a Unified Probabilistic Framework for Object Recognition and Segmentation
 Distributed Multi-camera Surveillance for AircraR Servicing Operations
 Mining Paths of Complex Crowd Scenes
 Geometric and Photometric Analysis for Interactively Recognizing Multicolor or Partially Occluded Objects
 A Three-Level Graph Based Interactive Volume Segmentation System
 Self-organizing Deformable Model: A New Method for Fitting Mesh Model to Given Object Surface
 Image-Based Deformation of Objects in Real Scenes
 Comparing Sphere-Tree Generators and Hierarchy Updates for Deformable Objects
 Collision Detection
 Simulating Complex Organ Interactions: Evaluation of a Soft Tissue Discrete Model.....

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