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Collana	Transactions on Computational Science, , 1866-4733 ; ; 7870
Disciplina	006.6
Soggetti	Optical data processing User interfaces (Computer systems) Artificial intelligence Computer Imaging, Vision, Pattern Recognition and Graphics User Interfaces and Human Computer Interaction Artificial Intelligence
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	2.5D Extension of Neighborhood Filters for Noise Reduction in 3D Medical CT Images -- Implementing Irradiance Cache in a GPU Realistic Renderer -- Adaptive Generation of Color Anaglyph -- Audio-Adaptive Animation from Still Image -- Auto-calibration for Image Mosaicing and Stereo Vision -- GPU Ray Tracing -- Comparative Study on Ray-Triangle Intersection Algorithms -- Learning Graph Laplacian for Image Segmentation -- Virtual Reality Technology for the Visual Perception Study -- Locally Adapted Detection and Correction of Unnatural Purple Colors in Images of Refractive Objects Taken by Digital Still Camera -- Some Theoretical Issues of Scientific Visualization as a Method of Data Analysis -- Pose Refinement of Transparent Rigid Objects with a Stereo Camera Analysis of Space-Time Flow Structures by Optimization and Visualization Methods.
Sommario/riassunto	The 19th issue of the Transactions on Computational Science journal, edited by Anton Konushin, is devoted to the topic of computer graphics. The 12 papers in the volume constitute revised and extended

versions of a selection of contributions presented at GRAPHICON 2012, the 22nd International Conference on Computer Graphics and Vision, held in Moscow, Russia, in October 2012. The selected papers span the areas of scientific visualization, ray tracing, image processing, virtual reality, and stereo vision.
