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Collana	Lecture notes in computer science, , 0302-9743 ; ; 5416 State-of-the-art survey
Altri autori (Persone)	NielsenFrank
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Note generali	International conference proceedings. State of the art report.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Geometric Computing -- Abstracts of the LIX Fall Colloquium 2008: Emerging Trends in Visual Computing -- From Segmented Images to Good Quality Meshes Using Delaunay Refinement -- Information Geometry and Applications -- Discrete Curvature Flows for Surfaces and 3-Manifolds -- Information Geometry and Its Applications: Convex Function and Dually Flat Manifold -- Computational Geometry from the Viewpoint of Affine Differential Geometry -- Interactions between Symmetric Cone and Information Geometries: Bruhat-Tits and Siegel Spaces Models for High Resolution Autoregressive Doppler Imagery -- Clustering Multivariate Normal Distributions -- Computer Graphics and Vision -- Intrinsic Geometries in Learning -- Shape from Depth Discontinuities -- Computational Photography: Epsilon to Coded Photography -- Unifying Subspace and Distance Metric Learning with Bhattacharyya Coefficient for Image Classification -- Information Retrieval -- Constant-Working-Space Algorithms for Image Processing -- Sparse Multiscale Patches for Image Processing -- Medical Imaging and Computational Anatomy -- Recent Advances in Large Scale Image Search -- Information Theoretic Methods for Diffusion-Weighted MRI Analysis -- Statistical Computing on Manifolds: From Riemannian Geometry to Computational Anatomy.

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## Sommario/riassunto

This book is an outcome of the LIX Fall Colloquium on the Emerging Trends in Visual Computing, ETVC 2008, which was held in Palaiseau, France, November 18-20, 2008. During the event, 25 renowned invited speakers gave lectures on their areas of expertise within the field of visual computing. From these talks, a total of 15 state-of-the-art articles have been assembled in this volume. All articles were thoroughly reviewed and improved, according to the suggestions of the referees. The 15 contributions presented in this state-of-the-art survey are organized in topical sections on: geometric computing, information geometry and applications, computer graphics and vision, information retrieval, and medical imaging and computational anatomy. They are preceded by the abstracts of the talks given at ETVC 2008.

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