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Soggetti	Optical data processing Artificial intelligence Computer graphics Pattern recognition Computer science—Mathematics Algorithms Image Processing and Computer Vision Artificial Intelligence Computer Graphics Pattern Recognition Discrete Mathematics in Computer Science Algorithm Analysis and Problem Complexity
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Nota di contenuto	Geometric statistics on manifolds and Lie groups -- Deformations in shape spaces -- Differential Geometry in Signal Processing -- Relational Metric -- Discrete Metric Spaces -- Computational Information Geometry -- Computational Aspects of Information Geometry in Statistics -- Optimization on Matrix Manifolds -- Optimal Transport Theory -- Probability on Manifolds -- Divergence Geometry and Ancillarity -- Entropic Geometry -- Tensor-Valued Mathematical

Morphology -- Machine/Manifold/Topology Learning -- Hessian Information Geometry -- Geometry of Audio Processing -- Geometry of Inverse Problems -- Algebraic/Infinite dimensional/Banach Information Manifolds -- Information Geometry Manifolds -- Algorithms on Manifolds.

Sommario/riassunto

This book constitutes the refereed proceedings of the First International Conference on Geometric Science of Information, GSI 2013, held in Paris, France, in August 2013. The nearly 100 papers presented were carefully reviewed and selected from numerous submissions and are organized into the following thematic sessions: Geometric Statistics on Manifolds and Lie Groups, Deformations in Shape Spaces, Differential Geometry in Signal Processing, Relational Metric, Discrete Metric Spaces, Computational Information Geometry, Hessian Information Geometry I and II, Computational Aspects of Information Geometry in Statistics, Optimization on Matrix Manifolds, Optimal Transport Theory, Probability on Manifolds, Divergence Geometry and Ancillarity, Entropic Geometry, Tensor-Valued Mathematical Morphology, Machine/Manifold/Topology Learning, Geometry of Audio Processing, Geometry of Inverse Problems, Algebraic/Infinite dimensionnal/Banach Information Manifolds, Information Geometry Manifolds, and Algorithms on Manifolds.
