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| 1. Record Nr.           | UNINA9910473459203321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Autore                  | Özarslan Evren                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Titolo                  | Anisotropy Across Fields and Scales // edited by Evren Özarslan, Thomas Schultz, Eugene Zhang, Andrea Fuster                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Pubbl/distr/stampa      | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ISBN                    | 3-030-56215-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Edizione                | [1st ed. 2021.]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Descrizione fisica      | 1 online resource (X, 280 p. 109 illus., 91 illus. in color.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Collana                 | Mathematics and Visualization, , 2197-666X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Classificazione         | COM014000COM016000MAT002050MAT013000SCI040000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Disciplina              | 004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Soggetti                | Information visualization<br>Algebras, Linear<br>Mathematics - Data processing<br>Image processing - Digital techniques<br>Computer vision<br>Mathematical physics<br>Data and Information Visualization<br>Linear Algebra<br>Computational Science and Engineering<br>Computer Imaging, Vision, Pattern Recognition and Graphics<br>Theoretical, Mathematical and Computational Physics                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Nota di contenuto       | Tensor approximation for multidimensional and multivariate data --<br>Tensor field topology without symmetrization using Hermitian tensors<br>-- Continuous histograms for Anisotropy of 2D symmetric piece-wise<br>linear tensor fields -- Riemann-DTI geodesic tractography revisited --<br>Fourth-order anisotropic diffusion for inpainting and image<br>compression -- Advanced deep learning for processing orientation-<br>dependent diffusion magnetic resonance imaging data - A review --<br>On the variance measure of diffusion tensors in two dimensions --<br>Magnetic resonance assessment of effective confinement anisotropy<br>with powder-averaged single and double diffusion encoding -- Merge<br>trees, neutral surfaces, and tensor field topology -- Asymmetric tensor<br>analysis -- Anisotropy issues in shape-based object analysis -- |

Tractogram filtering -- Multispectral image processing in astronomy --  
Anisotropy in the human placenta in pregnancies complicated by fetal  
growth restriction -- The case for spatially homogeneous models in  
high gradient strength diffusion-weighted MRI: A position paper on the  
potential applicability of stochastic geometry.

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Sommario/riassunto

This open access book focuses on processing, modeling, and  
visualization of anisotropy information...

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