

Seminar
Visualisation and Processing of Tensor Fields

Schedule

The seminar takes place in lecture hall 001 in Bldg. 45, Wednesday, 16:00–18:00.

Ch.#	Topic	Date	Speaker
2	Adaptive Structure Tensors and their Applications	26.10.05	Dettori
4	Low-level Feature Detection Using the Boundary Tensor	26.10.05	Khan
5	An Introduction to Computational Diffusion MRI: the Diffusion Tensor and Beyond	02.11.05	Zapp
6	Random Noise in Diffusion Tensor Imaging, its Destructive Impact and Some Corrections	02.11.05	Thielen
7	An Introduction to Visualization of Diffusion Tensor Imaging and Its Applications	09.11.05	Caroli
9	Variational Regularization of Multiple Diffusion Tensor Fields	09.11.05	Bazine
10	Higher Rank Tensors in Diffusion MRI	16.11.05	Metzner
11	Strategies for Direct Visualization of Second-Rank Tensor Fields (2)	16.11.05	Vogel / Schmaltz
12	Tensor Invariants and their Gradients	23.11.05	Peters
13	Visualizing the Topology of 2D Tensor Fields	23.11.05	Bach
14	Degenerate 3D Tensors	30.11.05	Schmitt
16	Tensor Field Visualization Using a Metric Interpretation	30.11.05	Barbey
17	Symmetric Positive-Definite Matrices: From Geometry to Applications and Visualization	07.12.05	Kemmerling
18	Continuous Tensor Field Approximation of DT-MRI data	07.12.05	Steudter
19	Tensor Field Interpolation with PDEs	14.12.05	Katov
21	Tensor-Valued Median Filtering and M-Smoothing	14.12.05	Haupt
22	Mathematical Morphology on Tensor Data Using the Loewner Ordering	21.12.05	Theisen
23	A Local Structure Measure for Anisotropic Regularization of Tensor Fields	21.12.06	Schmidt
24	Tensor Field Regularization using Normalized Convolution and Markov Random Fields in a Bayesian Framework	11.01.06	Khabouze
25	PDEs for Tensor Image Processing	11.01.06	Bauer