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# Second Workshop on Non-Rigid Shape Analysis and Deformable Image Alignment (NORDIA'09)

27 September 2009, Kyoto, Japan (in conjunction with ICCV'09)



Nonrigid and deformable shapes are ubiquitous in the world surrounding us, on all levels from micro to macro. The need to study such shapes and model their behavior arises in a wide spectrum of applications, ranging from medical imaging and augmented reality to design engineering and homeland security. In recent years, problems of nonrigid shape analysis and deformable image alignment have attracted a growing interest in computer vision and pattern recognition communities, which has led to rapid development of the field, where state-of-the-art results from very different sciences - theoretical and numerical geometry, optimization, linear algebra, graph theory, machine learning and computer graphics, to mention a few - are applied to find solutions.

The purpose of the workshop is to bring together leading researchers dealing with different aspects of nonrigid shape analysis and deformable image alignment in order to promote new interdisciplinary collaborations and expose each side to the most recent results and problems in each field. The purpose is to identify new problems as well as potential solutions. The unique value of the workshop is bringing together people from communities traditionally considered to be working in different areas and rarely meeting in the same conferences.

# **Topics**

- Deformable models
- Shape similarity and recognition
- Partial shape similarity
- Self-similarity and symmetry of nonrigid shapes
- Geometric and topological noise modeling
- 2D/2D, 2D/3D, and 3D/3D alignment and nonrigid correspondence problems
- Inverse problems involving nonrigid shapes
- Synthesis of nonrigid shapes
- Learning-based methods
- Image likelihood functions
- Efficient optimization algorithms
- Merging of detection and alignment
- Sensor fusion
- Applications

## Important dates

Paper submission: 30 June, 2009 Notification of acceptance: 20 July, 2009 Camera ready papers: 30 July, 2009 Workshop: 27 September, 2009