Deformable Models: Theory and Applications

A Special Track of the
5th International Symposium on Visual Computing (ISVC09)
http://www.isvc.net

Scope:

Since their emergence in the mid 1980s, deformable models have attracted intensive research in the areas of computer vision, computer graphics, and biomedical image analysis. In this special track, we seek high quality papers describing new theory and algorithms, novel applications, and state-of-the-art-surveys on deformable models. Our goal is to foster discussion on the recent advances and future research directions related to deformable mode-based processing, analysis and simulation.
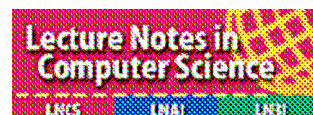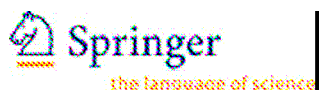
Topics:

The topics of interest include but are not limited to the following areas:

- New deformable model methodologies
- Deformable models for image segmentation
- Deformable models for matching and registration
- Deformable models for tracking
- Deformable models for texture analysis
- Deformable models for graphics and animation
- Deformable models for surgical simulation
- Level set methods and applications
- Adaptive deformable models
- Interactive techniques for deformable models
- Statistics and priors for deformable models
- GPU-based deformable model implementations
- Geodesic active contours and regions
- PDE-based deformable models
- Deformable models in biomedical imaging
- Multi-modality and deformable models

Paper Submission Procedure:

Papers submitted to ISVC 2009 Special Track must not have been previously published and must not be currently under consideration for publication elsewhere. Manuscripts should be submitted in camera-ready format and should not exceed **12 pages**, including figures and tables (see http://www.isvc.net for details). All papers accepted will appear in the symposium proceedings which will be published by **Springer-Verlag** in the **Lecture Notes in Computer Science (LNCS)** series.

Important Dates:

Paper submissions   July 10, 2009
Notification of acceptance   August 31, 2009
Final camera ready paper   September 14, 2009
Advance Registration   September 14, 2009
ISVC09 Symposium   November 30 - December 2, 2009

Organizers:

Demetri Terzopoulos, University of California, Los Angeles, dt@cs.ucla.edu
Gavriil Tsechpenakis, University of Miami, gavriil@miami.edu
Xiaolei Huang, Lehigh University, huang@cse.lehigh.edu

Discussion Panel:

Dimitris Metaxas (Chair), Rutgers University, dnm@cs.rutgers.edu

Program Committee:

Elsa Angelini, Ecole Nationale Supérieure de Télécommunications, France
David E. Breen, Drexel University, USA
Yunmei Chen, University of Florida, USA
Herve Delingette, INRIA, France
Patrice Delmas, University of Auckland, New Zealand
Ayman El-Baz, University of Louisville, USA
Aly A. Farag, University of Louisville, USA
Benjamin B. Kimia, Brown University, USA
Chandra Kambhamettu, University of Delaware, USA
Nadia Magnenat-Thalmann, University of Geneva, Switzerland
Tim McInerney, Ryerson University, Canada
Dimitris Metaxas, Rutgers University, USA
Kannappan Palaniappan, University of Missouri, USA
Nikos Paragios, Ecole Centrale de Paris, France
Hong Qin, Stony Brook University, USA
Mathieu Salzmann, UC Berkeley, USA
Eftychios Sifakis, UCLA, USA
Oskar Skrinjar, Georgia Tech, USA
Gabor Szekely, ETH Zurich, Switzerland
Joseph Teran, UCLA, USA
Daniel Thalmann, EPFL, Switzerland