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2nd Symposium on Shape and Deformable Modelling in Biomedical Image Analysis

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This second edition symposium is in conjunction with the *International Conference on Mathematical and Computational Biomedical Engineering 2011, Washington USA*. It has a particular focus on shape and deformable modelling for biomedical applications. Selected papers with extended versions will be included in a special issue in *International Journal for Numerical Methods for Biomedical Engineering*.

Deformable modelling is a powerful tool in extracting biological form, structure, and motion patterns. It is particularly suitable for non-rigid objects and has been widely used to measure and model biological shape and shape evolution in medical data. Shape extraction and analysis show enormous promise in, for example, understanding biological function and disease progression. This symposium is devoted to the discussion of recent advances in shape analysis and deformable modelling, in particular, for biomedical data processing and understanding. Contributions presenting recent work on shape representation, extraction, learning, classification and dynamic modelling are particularly welcome. The technical topics include, but are not limited to:

- Shape Representation and Learning
- Shape Matching, Classification, and Registration
- Active Shape Model and Active Appearance Model
- Active Contour and Surface Model
- Partial Differential Equations
- Level Set Methods
- Variational Methods
- Anatomical and Biological Structure Segmentation
- Shape Based Motion Analysis
- Functional, Molecular, Metabolic Image Analysis
- Other Biomedical Applications

For paper submission and important dates, please visit the conference website: http://www.compbiomed.net