

## Call for Papers for NASAGEM 2007

October 2007

Leibnizhaus Hannover, Germany



The workshop will be held under the umbrella of the Cyberworlds 2007 conference, October 24-27 in Hannover. Of special interest will be contributions addressing issues related to characterizing and representing complex geometrical data and shapes by using concepts from computational and differential geometry, differential equations and computational topology.

The accepted papers will be printed as a special session in the CW 2007 Conference Proceedings (by IEEE). All submissions will be peer reviewed. Full and short papers in English containing original and unpublished results are solicited. **Extended versions of the best papers will be published in a special issue of the "CAD Journal".**

### Topics of Interest

- 3D data compression including data of geometric objects and voxel data
- Modern wavelet methods
- The medial axis, its generalizations and applications
- Multiscale and multi resolution geometric modeling and appropriate data structures
- Applications of methods from computational geometry (including differential geometry) and computational topology (e.g. morse theory) on shape analysis and shape modeling
- Applications of mathematical methods such as ordinary and partial differential equations on shape analysis and shape modeling
- Applications of Laplace spectra for shape compression and characterization
- Methods for analysis of dynamic volumetric and image data, based on geometrical, topological and analytical approaches, generalized to higher-dimensional data.

For further details concerning the workshop and the submission, please see

<http://www.gdv.uni-hannover.de/hcw07>

### Dates

<b>Deadline for Submission</b>	<b>25 May 2007</b>
Notification of Acceptance	26 June 2007
Registration	15 July 2007
Camera Ready Version Due:	2 August 2007
Conference	24-27 October 2007

### Program and Workshop Co-Chairs NASAGEM 2007

Franz-Erich Wolter, Leibniz Universität Hannover

Nicholas M. Patrikalakis, MIT, USA

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### Organized by

Leibniz  
Universität Hannover