

# Seventh International Symposium on Voronoi Diagrams in Science and Engineering



The 7th ISVD International Symposium on Voronoi Diagrams in Science and Engineering (ISVD) devoted to one of the most fascinating data structures in Computational Geometry - the Voronoi diagrams, and their applications will be held in Quebec City, Qc, Canada. The symposium is intended to provide an interdisciplinary forum for leading researchers to present the latest developments and applications of the Voronoi diagrams, to discuss cutting-edge techniques, to exchange research ideas and to promote international collaboration in this field.

Authors are invited to submit papers (up to 10 pages) describing original research works related to the following topics:

- Theoretical aspects of Voronoi diagrams and Delaunay triangulations
- Generalizations of Voronoi diagrams and Delaunay triangulations
- Algorithmic aspects of Voronoi diagrams
- Mathematical properties of Voronoi diagrams
- Computational and implementation aspects of Voronoi diagrams
- Conceptual and logical data models based on Voronoi diagrams
- Terrain modeling and meshes using Delaunay triangulation
- 2D and 3D spatial topological data structures based on Voronoi diagram
- Visualization, animation and morphing using Voronoi diagrams
- Pattern analysis and recognition using Voronoi diagrams
- Motion analysis and planning using Voronoi diagrams
- Collision detection, navigation and obstacle avoidance using Voronoi diagrams
- Network analysis and communication using Voronoi diagrams
- Clustering and districting using Voronoi diagrams
- Dynamic data modeling and simulation using Voronoi diagrams
- Spatial and autocorrelation analysis using weighted metrics and Voronoi diagrams
- Image processing using Voronoi diagrams
- Molecular, Biological and Physical modeling using Voronoi diagram
- Voronoi diagrams in Bioinformatics, astronomy, geography, chemistry, material science, location science, Solid modeling and operations research
- Voronoi art
- Other applications

All submitted papers will be refereed for their quality, originality and relevance by the Scientific Committee. The acceptance or rejection of a paper will be based on the reviews. For more details on the submission procedure, please see ISVD 2010 web site at:

<http://isvd2010.scg.ulaval.ca>

All accepted papers will be published in the proceedings of the symposium. Selected papers (up to 10) will be published in a special issue of a related journal in the field.

## Important dates

Abstract Submission	As soon as possible ( closed)
Submission of full paper	April 5th, 2010 ( closed)
Notification of Acceptance	April 30th, 2010
Early registration	May 2nd, 2010
Camera-ready version of papers:	May 10th, 2010 (extended up to May 14 <sup>th</sup> , 2010)
ISVD 2010 Symposium:	June 28-30, 2010

## Steering committee

Prof. Mir Abolfazl Mostafavi (Chair)	Center for Research in Geomatics, Department of Geomatics Sciences, Laval University, Quebec, <b>Canada</b>
Prof. Christopher Gold	EU Marie Curie Chair, University of Glamorgan, <b>UK</b>
Prof. Marina Gavrilova	Department of Computer Science, BT and SPARCS Laboratories (Co-Director), University of Calgary, <b>Canada</b>
Prof. Deok-Soo Kim	Voronoi Diagram Research Center (Director), Hanyang University, <b>Korea</b>
Prof. Nikolai N. Medvedev	Group of Supramolecular Structures (Director), Institute of Chemical Kinetics and Combustion SB RAS, Novosibirsk State University, <b>Russia</b>
Prof. Kokichi Sugihara	Meiji Institute for Advanced Study of Mathematical Sciences, Meiji University, <b>Japan</b>
Prof. François Anton	Image Analysis and Computer Graphics, Department of Informatics and Mathematical Modelling, Technical University of Denmark, <b>Denmark</b>

## Local organising committee

Prof. Mir Abolfazl Mostafavi (2010 Chair)	Laval University, Quebec, Canada
Mojgan Jadidi (PhD. Student)	Laval University, Quebec, Canada
Bruno St-Aubin (Msc. Student)	Laval University, Quebec, Canada
Louis-Etienne Guimond	Laval University, Quebec, Canada

Please direct any question related to the ISVD 2010 at [ISVD2010@scg.ulaval.ca](mailto:ISVD2010@scg.ulaval.ca) or to the symposium chair at:

**Prof. Mir Abolfazl Mostafavi**  
ISVD 2010 Chair

Centre de recherche en géomatique  
Département des sciences géomatiques  
1055, avenue du Séminaire  
Université Laval  
Québec, Qc, G1V 0A6  
Canada  
Phone: (418) 656-2131 Poste 2750  
Fax: (418) 656-7411  
Email: [mir-abolfazl.mostafavi@scg.ulaval.ca](mailto:mir-abolfazl.mostafavi@scg.ulaval.ca)  
Web : <http://www.scg.ulaval.ca/prof01.php?id=17>