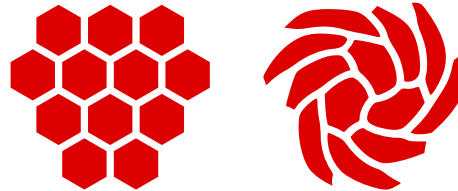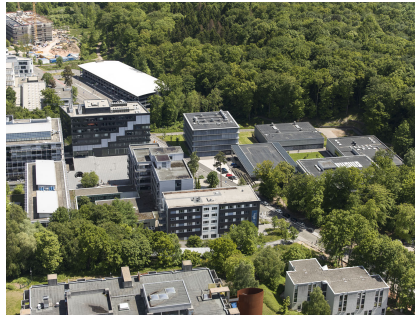# 14th International Symposium On Mathematical Morphology ISMM 2019

8–10 July 2019
Saarland University, Saarbrücken, Germany

First Call For Papers

The International Symposium on Mathematical Morphology (ISMM) has established itself as the main scientific event in the field. We will be delighted to host the 14th International Symposium on Mathematical Morphology (ISMM 2019) at the Saarland University in Saarbrücken, Germany. The goal of the conference is to bring together researchers, students, and practitioners of mathematical morphology and related methodologies, to present and discuss new advances in the field, be they purely theoretical developments or novel applications.

Proceedings will be published in Springer's Lecture Notes in Computer Science series.

Full instructions for submitting papers will be available at the conference website: *http://ismm.uni-saarland.de*

Submission deadline for Springer LNCS: 1 December 2018
Notification of acceptance: 1 March 2019
Camera ready paper: 1 April 2019
Conference date: 8–10 July 2019

Main topics of interest include (but are not limited to)

- Algebraic Theory: Morphology on complete lattices and semilattices, Representation of morphological operators, Fuzzy morphology, Connected operators, Morphology on graphs, Morphology on Surface Meshes and Riemannian manifolds.

- Nonlinear Scale Space Theory: Morphological decompositions, Morphological PDEs, Level set methods, Morphological wavelets, Morphological regularization.

- Discrete Geometry and Combinatorial Topology: Grids, discrete objects, discrete model properties, digitization schemes, metrics and distance transformation, skeletons, discrete tomography, etc.

- Random sets Theory and Geometrical Probability: Boolean model for sets and functions, Stochastic simulation of random media, etc.

- (max,+) Mathematics and Idempotent Analysis for Image and Signal Processing.

- Image Filtering: Color and multi-channel morphology, Morphology on tensor fields, Geodesic transformations, Adaptive morphology, Attribute filtering.

- Image Segmentation: Watershed segmentation, Hierarchical segmentation, Color and multi-channel image segmentation, Texture segmentation, Clustering of spatial data

- Computational Mathematical Morphology: Algorithms, Architectures, Data structures and programming paradigms for efficient implementation of morphological operators.

- Applications: Astronomy, Geosciences and remote sensing, (Bio)medical imaging, Materials science, Data analysis, Document processing, Content-based information retrieval, Video surveillance, Industrial control, Visualization, etc.

Local Organizing Commitee:

Bernhard Burgeth, *Saarland University, burgeth@math.uni-sb.de*
Andreas Kleefeld, *Forschungszentrum Jülich, a.kleefeld@fz-juelich.de*
Benoît Naegel, *Strasbourg University, b.naegel@unistra.fr*
Nicolas Passat, *Reims Champagne-Ardenne University, nicolas.passat@univ-reims.fr*
Benjamin Perret, *ESIEE-Paris, benjamin.perret@esiee.fr*