

Call for Papers: New Progress in Geometry for Applications

A Special Issue of Computer Aided Geometric Design

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Submission Deadline: October 31st, 2017

Background and Scope. Results, methods and techniques from classical geometry have significantly influenced the state of the art in applied geometry. They play a fundamental role in modern geometric design, geometric algorithms for computer aided geometric design, symbolic-numerical computing, scientific visualization, and numerical simulation. The wealth of knowledge, which can be found in classical differential, algebraic, projective or descriptive geometry, still provides a great potential not only for various geometric applications, ranging from geometric modeling to robotics and kinematics, or isogeometric analysis, but also for further disciplines such as computer graphics, computational chemistry, molecular biology, medicine, etc.

This special issue is devoted to new progress which reflects the interaction between the theoretical geometric methods, and the application-oriented approaches devoted to the analysis and development of computer aided geometric design methods. In particular, it will contain papers which were presented at the

Conference on Geometry: Theory and Applications
Plzeň, Czech Republic, June 26–30, 2017.

Additional submissions are also welcome.

Topics include, but are not limited to,

- Applications of real algebraic geometry and symbolic-numerical computation,
- Concepts of classical differential geometry in geometric modeling,
- Isogeometric analysis,
- Spline and subdivision theory and its applications,
- Discrete differential geometry,
- Kinematical geometry and robotics.

Submission. Please use the electronic submission system at

<http://ees.elsevier.com/cagd>

and indicate that you wish to submit your paper to the special issue.

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