



## Applications of Differential Geometry

Guest Editor:

**Prof. Dr. Anna Maria Fino**

Dipartimento di Matematica "G.  
Peano", Università di Torino, 8-  
10124 Torino, Italy

Deadline for manuscript  
submissions:

**closed (31 October 2018)**

### Message from the Guest Editor

Differential geometry deals with the application of methods of local and global analysis to geometric problems. It was developed during the 18th and 19th century with the the theory of curves and surfaces in the three-dimensional Euclidean space. From the 19th century it has grown, considering more generally geometric structures on differential manifolds.

It is deeply linked to other areas of mathematics, such as partial differential equations, topology, complex analytic functions, dynamical systems and group theory.

The goal of this Special Issue is to explore the multifaceted realm of differential geometry, providing a collection of research and survey papers that reflect the research in differential geometry and explore applications in other areas.

Indeed, differential geometry is, not only the standard language used to formulate general relativity, but it has found applications also in medical imaging, computer vision, Hamiltonian mechanics, geometrothermodynamics, geometric design, geometric control and information geometry.

We look forward to your contributions to this Special Issue.





# *axioms*

IMPACT  
FACTOR  
1.6

an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Humberto Bustince**

Department of Statistics,  
Computer Science and  
Mathematics, Public University of  
Navarra, 31006 Pamplona, Spain

## Message from the Editor-in-Chief

*Axioms* is dedicated to the foundations (structure and axiomatic basis, in particular) of mathematical theories, not only from a crisp or strictly classical sense, but also from a fuzzy and generalized sense. This includes the more innovative current scientific trends, devoted to discover and solve new challenging problems. The prime goal of *Axioms* is to publish first-class, original research articles under an open access policy with minimal fees for the authors. We would be pleased to welcome you as one of our authors.

## Author Benefits

**Open Access:** free for readers, with **article processing charges (APC)** paid by authors or their institutions.

**High visibility:** indexed within **SCIE (Web of Science)**, **dblp**, and **other databases**.

**Journal Rank:** JCR - Q2 (Mathematics, Applied)

## Contact Us

---

*Axioms* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/axioms](http://mdpi.com/journal/axioms)  
[axioms@mdpi.com](mailto:axioms@mdpi.com)  
[X@Axioms\\_MDPI](https://twitter.com/Axioms_MDPI)