



## Pseudo-Riemannian Metrics and Applications

Guest Editor:

**Prof. Dr. Giovanni Calvaruso**

Dipartimento di Matematica e  
Fisica 'E. De Giorgi', Università del  
Salento, Prov. Lecce-Arnesano,  
73100 Lecce, Italy

Deadline for manuscript  
submissions:

**closed (30 April 2020)**

### Message from the Guest Editor

The purpose of this Special Issue is to collect original and survey papers concerning relevant state-of-the-art results on pseudo-Riemannian metrics and their applications to Physics. A non-exhaustive list of topics includes homogeneous pseudo-Riemannian manifolds, Lorentzian manifolds, special curvature properties, tangent and unit tangent sphere bundles, Einstein manifolds and Ricci solitons, geodesic and magnetic curves, geometry of submanifolds, pseudo-Riemannian Lie groups, symmetries, special connections and metrics, methods of (pseudo-)Riemannian geometry, and harmonic maps.





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 - Q1 (Mathematics, Applied)

**Rapid Publication:** manuscripts are peer-reviewed and a first decision is provided to authors approximately 21 days after submission; acceptance to publication is undertaken in 3.4 days (median values for papers published in this journal in the first half of 2024).

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