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Applications of Differential Geometry

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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 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.



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Special Issue