



Differential Geometry and Related Integrable Systems

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Message from the Guest Editor

This volume is dedicated to the study of geometric objects that represent critical points of certain curvature functionals. Many interesting classes of surfaces appear from the calculus of variations, as solutions of Euler–Lagrange equations, thus bringing close together the fields of geometric integrable systems and mathematical physics. Common examples include Willmore surfaces and constant-mean-curvature surfaces. The tools used to study these surfaces involve the calculus of variations and PDE, Lie group theory, harmonic map theory, gauge theory, along with real and complex manifolds. The different techniques and fields involved unify research interests, rather than dividing them. The key idea of this work is to present groundbreaking and recent research in differential geometry and integrable systems and to stimulate further collaborations.





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Message from the Editor-in-Chief

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