

f-Biminimal Immersions

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ABSTRACT

In this study, via Euler-Lagrange equations, we introduce f -biminimal immersions. We obtain some results of f -biminimal curves in a Riemannian manifold. We also find some results of f -biminimal submanifolds in a Riemannian manifold of codimension 1. To obtain some examples of f -biminimal surfaces, we use Riemannian submersions. Finally we consider f -biminimal Legendre curves in Sasakian space forms and we obtain a non-trivial example.