Parsch, Fabian


Summary: We construct a geodesic net in the plane with four unbalanced (boundary) vertices that has sixteen balanced vertices and does not contain nontrivial subnets. This is the first example of an irreducible geodesic net in the Euclidean plane with four boundary vertices that contain cycles of balanced vertices.

MSC:
- 53C22 Geodesics in global differential geometry
- 53A70 Discrete differential geometry
- 58E10 Variational problems in applications to the theory of geodesics (problems in one independent variable)
- 52C45 Combinatorial complexity of geometric structures

Keywords: geodesics; geodesic nets; critical graphs

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References:


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