

Droske, M.; Rumpf, M.

A level set formulation for Willmore flow. (English) [Zbl 1062.35028](#)
Interfaces Free Bound. 6, No. 3, 361-378 (2004).

The authors give a level set formulation of Willmore flow using gradient flow. They discuss spatial and temporal discretizations giving some numerical simulations.

Reviewer: [Ricardo Sa Earp \(Rio de Janeiro\)](#)

MSC:

- [35K55](#) Nonlinear parabolic equations
- [53C44](#) Geometric evolution equations (mean curvature flow, Ricci flow, etc.) (MSC2010)
- [65M60](#) Finite element, Rayleigh-Ritz and Galerkin methods for initial value and initial-boundary value problems involving PDEs
- [74G65](#) Energy minimization in equilibrium problems in solid mechanics
- [74S05](#) Finite element methods applied to problems in solid mechanics

Cited in **1** Review
Cited in **36** Documents

Keywords:

[gradient flow](#); [energy](#); [time discretization](#); [spatial discretization](#); [numerical simulations](#)

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