Fard, O. S.; Soolaki, J.; Almeida, R.
A formulation of Noether’s theorem for fuzzy problems of the calculus of variations. (English) 

Summary: The theory of the calculus of variations for fuzzy systems was recently initiated in [B. Farhadinia, Inf. Sci. 181, No. 7, 1348–1357 (2011; Zbl 1227.49034)], with the proof of the fuzzy Euler-Lagrange equation. Using the fuzzy Euler-Lagrange equation, we obtain here a Noether-like theorem for fuzzy variational problems.

MSC:
49N99 Miscellaneous topics in calculus of variations and optimal control
49K45 Optimality conditions for problems involving randomness

Keywords:
fuzzy Noether’s theorem; fuzzy Euler-Lagrange conditions; fuzzy conservation law

Full Text: DOI

References:

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