

## عنوان مقاله:

A Fuzzy Simpson's Rule For Integration of Fuzzy Functions

## محل انتشار:

دومین همایش ملی ریاضیات و کاربردهای آن در علوم مهندسی (سال: 1394)

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## خلاصه مقاله:

In this paper, a fuzzy Simpsons rule for integration of fuzzy function is proposed. Fuzzy Simpsons rule is a Newton-cotes formula for approximating the integral of a fuzzy function using quadratic Polynomials, fuzzy Simpson rule can be derived by integration a third-order fuzzy Lagrange interpolating Polynomial fit to the fuzzy function at three equally spaced points. The Proposed algorithms is illustrated by solving numerical example.

## کلمات کلیدی:

Fuzzy integration, fuzzy Newton-Cotes method, Fuzzy Simpson's rule

## لینک ثابت مقاله در پایگاه سیویلیکا:

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