

## عنوان مقاله:

An error indicator for two-dimensional elasticity problems in the discrete least squares meshless method

## محل انتشار:

هشتمین کنگره بین المللی مهندسی عمران (سال: 1388)

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## خلاصه مقاله:

An error indicator of the discrete least squares method (DLSSM) for 2D elastostatic problems is presented. In the DLSSM, the problem domain is discretized by distributed field nodes. The field nodes are used to construct the trial functions. The moving least-squares interpolant is employed to construct the trial functions. The least-squares technique is used to obtain the solution of the problem by minimizing the summation of the residuals for the field nodes. The error indicator is readily computed from the residual of the governing differential equation. It is demonstrated, through some elastostatic problems, that the error indicator reflects the exact error.

## کلمات کلیدی:

Discrete least squares method, Meshless, Error estimate, Elasticity

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/62892>

