Some new inequalities of Hermite-Hadamard type for \( n \)-time differentiable functions which are \( m \)-convex. (English) [Zbl 1259.26033]


Summary: By setting up an integral identity and using the Hölder integral inequality, the authors establish some new inequalities of Hermite-Hadamard type for \( n \)-time differentiable and \( m \)-convex functions and discuss applications of these inequalities to special means.

MSC:

- 26D15 Inequalities for sums, series and integrals
- 26E60 Means
- 41A55 Approximate quadratures

Keywords:

- Hermite-Hadamard integral inequality
- integral identity
- \( m \)-convex function
- differentiable function
- Hölder integral inequality
- application
- mean

Full Text: DOI

References:


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