Kashuri, Artion; Budak, Hüseyin; Liko, Rozana; Ali, Muhammad Aamir; Özkçelik, Kubilay
On generalized fractional integral inequalities for functions of bounded variation with two variables. (English) [Zbl 1491.26022]

Summary: In this paper, the authors establish some identities for generalized fractional integrals. Utilizing these identities, some Ostrowski and midpoint type inequalities for generalized fractional integrals for functions of bounded variation with two variables are obtained. Moreover, some new inequalities involving $k$-Riemann-Liouville fractional integrals are presented as special cases of our main results.

MSC:
26D15 Inequalities for sums, series and integrals
26A33 Fractional derivatives and integrals
26B30 Absolutely continuous real functions of several variables, functions of bounded variation

Keywords:
function of bounded variation; Ostrowski inequality; generalized fractional integral

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