World Academy of Science, Engineering and Technology
International Journal of Mathematical and Computational Sciences
Vol:14, No:11, 2020

Hermite–Hadamard Type Integral Inequalities Involving k–Riemann–Liouville Fractional Integrals and Their Applications

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Abstract : In this paper, some generalization integral inequalities of Hermite–Hadamard type for functions whose derivatives are s–convex in modulus are given by using k–fractional integrals. Some applications to special means are obtained as well. Some known versions are recovered as special cases from our results. We note that our inequalities can be viewed as new refinements of the previous results. Finally, our results have a deep connection with various fractional integral operators and interested readers can find new interesting results using our idea and technique as well.

Keywords : Hermite-Hadamard's inequalities, Hölder's inequality, k-Riemann-Liouville fractional integral, special means
Conference Title : ICDRIT 2020 : International Conference on Differentiation Rules and Integration Techniques
Conference Location : Rome, Italy
Conference Dates : November 11-12, 2020