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Title: Two Schur-convex functions related to Hadamard-type integral inequalities

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The Schur-convexity, the Schur-geometric convexity and the Schur-harmonic convexity of two mappings which related to Hadamard-type integral inequalities are re-searched. And three refinements of Hadamard-type integral inequality are obtained, as applications, some inequalities related to the arithmetic mean, the logarithmic mean and the power mean are established.

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