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Title: Generalizations of Mitrinović, Adamović and Lazarević's inequalities and their applications

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In this paper, by introducing a parameter, we give new generalizations of Mitrinović–Adamović's inequality and Lazarević's inequality, and we apply these results to present new refinements of Cusa–Huygens' inequality and Wilker's inequality. These results improve many known results in the literature.

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