Functional inequalities for the generalized Wright functions

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Abstract: In this work, a generalization of Wright functions is considered. We derive some man value inequalities for this generalized function, such as Turán-type inequalities, Lazarević-type inequalities, Wilker-type inequalities and Redheffer-type inequalities. Furthermore, we establish monotonicity of ratios for sections of series of these generalized Wright functions, the obtained result is also closely related to Turán-type inequalities. Finally, some other related inequalities are also discussed as a consequence.