# GENERALIZED HYERS-ULAM-RASSIAS STABILITY AND J. M. RASSIAS STABILITY OF A QUADRATIC FUNCTIONAL EQUATION 

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#### Abstract

In this paper, we obtain the general solution of a new quadratic functional equation $f(2 x-$ $y)+f(2 y-z)+f(2 z-x)+f(x+y+z)-f(x-y+z)-f(x+y-z)-f(x-y-z)=3 f(x)+$ $3 \mathrm{f}(\mathrm{y})+3 \mathrm{f}(\mathrm{z})$ and investigate its generalized Hyers-Ulam-Rassias stability and J. M. Rassias stability for the above functional equation.


Key Words and Phrases: Quadratic Functional Equation, Genrealized Hyers-UlamRassias Sta-bility, J. M. Rassias Stability.

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