THE MODIFIED HYERS–ULAM–RASSIAS STABILITY OF A CUBIC TYPE FUNCTIONAL EQUATION

ICK-SOON CHANG, KIL-WOUNG JUN AND YONG-SOO JUNG

Abstract. In this paper, we obtain the solution of the following new cubic type functional equation and investigate the modified Hyers-Ulam-Rassias stability of this equation by using the fixed point alternative:

\[ f(x + y + 2z) + f(x + y - 2z) + f(2x) + f(2y) + 7f(x) + 7f(-x) = 2[f(x + y) + 2f(x + z) + 2f(x - z) + 2f(y + z) + 2f(y - z)]. \]

Key words and phrases: Stability, cubic function, fixed point alternative.

REFERENCES


