ON THE STABILITY OF AN \( n \)-DIMENSIONAL QUADRATIC AND ADDITIVE FUNCTIONAL EQUATION

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Abstract. In this paper, we investigate the generalized Hyers-Ulam stability problem of a quadratic and additive type functional equation

\[
f \left( \sum_{i=1}^{n} x_i \right) + (n - 2) \sum_{i=1}^{n} f (x_i) = \sum_{1 \leq i < j \leq n} f (x_i + x_j), \quad (n > 2)
\]

for the even or odd case in the \( n \) variables.


Key words and phrases: Hyers-Ulam stability, quadratic function.

REFERENCES