## On the probabilistic stability of some functional equations

CLAUDIA ZAHARIA and DOREL MIHEŢ

## ABSTRACT.

We establish stability results concerning the additive and quadratic functional equations in complete Menger  $\varphi$ -normed spaces by using fixed point theory. As particular cases, some theorems regarding the stability of functional equations in  $\beta$  - normed and quasi-normed spaces are obtained.

DEPARTMENT OF MATHEMATICS
WEST UNVERSITY OF TIMIŞOARA
V. PÂRVAN 4, 300223 TIMIŞOARA, ROMANIA
E-mail address: czaharia@math.uvt.ro

DEPARTMENT OF MATHEMATICS
WEST UNVERSITY OF TIMIŞOARA
V. PÂRVAN 4, 300223 TIMIŞOARA, ROMANIA
E-mail address: mihet@math.uvt.ro