

CARPATHIAN J. MATH.
23 (2007), No. 1 - 2, 149 - 155

Dedicated to Professor Ioan A. RUS on the occasion of his 70th anniversary

Approximate fixed point theorems for weak contractions on metric spaces

MĂDĂLINA PĂCURAR and RADU VASILE PĂCURAR

ABSTRACT. Some existence results concerning approximate fixed points of the weak contractions introduced by V. Berinde on a metric space (not necessarily complete) are given. We also prove some quantitative theorems regarding the set of approximate fixed points for two subclasses of weak contractions, one of them being the class of Rus-Reich operators.

"BABEȘ-BOLYAI" UNIVERSITY
FACULTY OF ECONOMIC SCIENCES AND BUSINESS ADMINISTRATION
DEPARTMENT OF STATISTICS, FORECAST AND MATHEMATICS
MIHALI ST. 58-60, 400591 CLUJ-NAPOCA, ROMANIA
E-mail address: mpacurar@econ.ubbcluj.ro; madalina.pacurar@yahoo.com

S.C. NORDLOGIC
AVIATOR BĂDESCU ST. 27, 400196 CLUJ-NAPOCA, ROMANIA
E-mail address: radu.pacurar@nordlogic.com; pacurar_rv@yahoo.com