

A COMMON FIXED POINT FOR WEAK ϕ -CONTRACTIONS ON b -METRIC SPACES

HASSEN AYDI*, MONICA-FELICIA BOTA**, ERDAL KARAPINAR***
AND SIROUS MORADI****

*Université de Sousse,
Institut Supérieur d'Informatique et des Technologies
de Communication de Hammam Sousse,
Route GP1-4011 H. Sousse, Tunisie
E-mail: hassen.aydi@isima.rnu.tn

**Department of Mathematics, Babeş-Bolyai University,
Kogălniceanu Street No.1, 400084, Cluj-Napoca, Romania
E-mail: bmonica@math.ubbcluj.ro

***Department of Mathematics,
Atilim University 06836, İncek, Ankara, Turkey
E-mail: erdalkarapinar@yahoo.com, ekarapinar@atilim.edu.tr

****Department of Mathematics, Faculty of Science,
Arak University, Arak 38156-8-8349, Iran
E-mail: s-moradi@araku.ac.ir, sirousmoradi@gmail.com

Abstract. In this paper, we give a common fixed point result for single-valued and multi-valued mappings satisfying a weak ϕ -contraction in b -metric spaces. Presented theorems extend, generalize and improve some existing results in the literature. Some examples are also given.

Key Words and Phrases: Fixed point, complete b -metric space, multi-valued mapping, weak ϕ -contraction.

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