Tripled fixed point theorems for monotone mappings in partially ordered metric spaces

MARIN BORCUT

ABSTRACT.

In this paper, we introduce the concept of tripled fixed point for nonlinear and monotone mappings in partially ordered complete metric spaces and obtain existence as well as existence and uniqueness theorems for contractive type mappings. Our results generalize and extend recent tripled fixed point theorems established by Berinde and Borcut [Berinde, V., Borcut, M., *Tripled fixed point theorems for contractive type mappings in partially ordered metric spaces*. Nonlinear Anal. **74** (2011) 4889–4897]. Examples to support our new results are given.

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
NORTH UNIVERSITY OF BAIA MARE
VICTORIEI 76, 430122 BAIA MARE, ROMANIA
E-mail address: `marinborcut@yahoo.com`