A GENERALIZED MONOTONIC FIXED POINT ALGORITHM
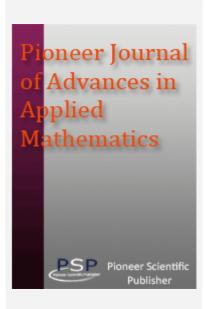
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Abstract

This paper extends some results obtained by the author ([N. Daili, Fixed point algorithms of contraction and relaxation, JP Jour. Fixed Point Theory and Applications 5(1) (2010), 71-80], [N. Daili, Numerical approach to fixed point theorems, Int. J. Contemp. Math. Sciences (IJCMS) 3(14) (2008), 675-682]). We develop a new monotonic fixed point algorithm. The objective of this paper is to develop a new monotonic fixed point algorithm to resolve nonlinear equations and nonlinear systems in finite dimensional m.