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Stability and convergence of implicit iteration processes. (English) Zbl 1099.47524
Vietnam J. Math. 32, No. 4, 467-473 (2004).

Let (X, d) be a metric space and $T : X \times X \rightarrow X$ be an operator. The authors study the implicit iteration processes, $x_n = T(x_n, x_{n-1})$, $n \in \mathbb{N}$, for the solutions of the equation $x = T(x, x)$.

Reviewer: Ioan A. Rus (Cluj-Napoca)

MSC:

47J25 Iterative procedures involving nonlinear operators

65J15 Numerical solutions to equations with nonlinear operators (do not use 65Hxx)

47H10 Fixed-point theorems

54H25 Fixed-point and coincidence theorems (topological aspects)

Cited in **2** Documents

Keywords:

fixed point; implicit iteration processes; global convergence; local convergence