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Note. We used the short names *Nonlinear Anal. TMA* for Nonlinear Analysis, Ser. A: Theory Methods Appl. and, respectively, *Nonlinear Anal.* for Nonlinear Analysis, Ser. B: Real World Appl.

List of Symbols

- $\mathbf{N} = \{0, 1, \dots, n, \dots\}$;
 $\mathbf{Z} = \{\dots - n, \dots, -2, -1, 0, 1, 2, \dots, n, \dots\}$
 $\mathbf{N}^* = \{1, 2, \dots, n, \dots\}$;
 \mathbf{R} = the set of all real numbers
 $[a, b]$ - the closed interval , $a, b \in \mathbf{R}$
 (a, b) - the open interval , $a, b \in \mathbf{R}$
 ∂D - the boundary of the domain D
 $|x|$ - the absolute value of x , $x \in \mathbf{R}$
 \emptyset - the empty set
- For $T : X \rightarrow X$ a mapping,
 $D(T)$ is the domain of T
 $R(T)$ - the range of T
 $F_T = \{x \in X : Tx = x\}$ or $Fix(T)$ - the set of fixed points of T
 $I = I_X$ - the identity map
 $T^0 = 1_X$, $T^1 = T$, ..., $T^n = T \circ T^{n-1}$, ... - the iterates of T
 $0_T(x, n) = \{x, Tx, \dots, T^n x\}$;
- For (X, d) a metric space,
 $B(a, R) = \{x \in X : d(x, a) < R\}$, $R > 0$ is the open ball
 $\overline{B}(a, R) = \{x \in X : d(x, a) \leq R\}$, $R > 0$ - the closed ball
 $\delta(A) = \sup\{d(a, b) : a, b \in A\}$ - the diameter of $A \subset X$
- For $(E, \|\cdot\|)$ a normed space,
 E^* is the dual of E
 E^{**} - the bidual of E
 $Jx(jx)$ - the normalized (single valued) duality mapping
 ρ_E - the modulus of smoothness of E
 δ_E - the modulus of convexity of E
 $co K$ - the convex hull of K
 $diam(K)$ - the diameter of the set K
 $x_n \rightharpoonup x$ means that x_n converges weakly to x

For $(E, \|\cdot\|)$ a normed space and $T : X \rightarrow X$ a mapping,

$K(x_0, \lambda, T)$ is the Krasnoselskij iteration associated to the operator T , the initial guess x_0 and parameter λ

$M(x_0, A, T)$ - the (general) Mann iteration associated to the operator T , the initial guess x_0 and matrix A

$M(x_0, \alpha_n, T)$ - the (normal) Mann iteration associated to the operator T , the initial guess x_0 and parameter sequence $\{\alpha_n\}$

$I(x_0, \alpha_n, \beta_n, T)$ - the Ishikawa iteration associated to the operator T , the initial guess x_0 and parameter sequences $\{\alpha_n\}$, $\{\beta_n\}$

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