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| Titolo | Advances in Metric Fixed Point Theory and Applications / / edited by Yeol Je Cho, Mohamed Jleli, Mohammad Mursaleen, Bessem Samet, Calogero Vetro |
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| Edizione | [1st ed. 2021.] |
| Descrizione fisica | 1 online resource (XVII, 503 p. 6 illus., 1 illus. in color.) |
| Disciplina | 515.7248 |
| Soggetti | Functional analysis<br>Topology<br>Operator theory<br>Functional Analysis<br>Operator Theory |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | The relevance of a metric condition on a pair of operators in common xed point theory -- Some Convergence Results of the K Iteration Process in CAT(0) Spaces -- Split variational inclusion problem and xed point problem for asymptotically nonexpansive semigroup with application to optimization problem -- Convergence theorems and convergence rates for the general inertial Krasnosel'ski–Mann algorithm -- Digital space type xed point theory and its applications -- Existence and Approximations for Order-Preserving Nonexpansive Semigroups over CAT() Spaces -- Solution of system of integral equations in product spaces via concept of measures of noncompactness -- Fixed points that are zeros of a given function -- A survey on best proximity point theory in reexive and Busemann convex spaces. |
| Sommario/riassunto | This book collects papers on major topics in fixed point theory and its applications. Each chapter is accompanied by basic notions, mathematical preliminaries and proofs of the main results. The book discusses common fixed point theory, convergence theorems, split variational inclusion problems and fixed point problems for |

asymptotically nonexpansive semigroups; fixed point property and almost fixed point property in digital spaces, nonexpansive semigroups over CAT() spaces, measures of noncompactness, integral equations, the study of fixed points that are zeros of a given function, best proximity point theory, monotone mappings in modular function spaces, fuzzy contractive mappings, ordered hyperbolic metric spaces, generalized contractions in b-metric spaces, multi-tupled fixed points, functional equations in dynamic programming and Picard operators. This book addresses the mathematical community working with methods and tools of nonlinear analysis. It also serves as areference, source for examples and new approaches associated with fixed point theory and its applications for a wide audience including graduate students and researchers.