

Bibliography

- [1] G.L. Acedo, H.K. Xu, Iterative methods for strict pseudocontractions in Hilbert spaces, *Nonlinear Anal. TMA.* 67 (2007) 2258–2271.
- [2] R.P. Agarwal, D. O'Regan, D.R. Sahu, *Fixed Point Theory for Lipschitzian-type Mappings with Applications*, Springer, New York (2009).
- [3] Y. Alber, Metric and generalized projection operators in Banach spaces: Properties and applications, in: A.G. Kartsatos (Ed.), *Theory and Applications of Nonlinear Operator of Accretive and Monotone Type*, Marcel Dekker, New York, 1996, pp. 15–50.
- [4] Q.H. Ansari, Y.C. Lin, J.C. Yao, General KKM theorem with applications to minimax and variational inequalities, *J. Optim. Theor. Appl.* 104 (2000) 41–57.
- [5] K. Aoyama, F. Kohsaka, W. Takahashi, Strongly relatively nonexpansive sequences in Banach spaces and applications, *J. Fixed Point Theory Appl.* 5 (2009) 201–225.
- [6] K. Aoyama, Y. Kimura, W. Takahashi, M. Toyoda, Approximation of common fixed points of a countable family of nonexpansive mappings in a Banach space, *Nonlinear Anal. TMA.* 67 (2007) 2350–2360.
- [7] S. Atsushiba, Strong convergence theorems for a family of relatively nonexpansive mappings in Banach spaces, in: *Proceedings of the 8th International Conference on Fixed Point Theory and its Applications*, Fixed Point Theory and its Applications, Yokohama Publishers, pp. 19–28.
- [8] S. Atsushiba, W. Takahashi, Strong convergence theorems for a finite family of nonexpansive mappings and applications, in: *B.N. Prasad Birth Centenary Commemoration Volume*, *Indian J. Math.* 41 (1999) 435–453.
- [9] H.H. Bauschke, P.L. Combettes, A weak-to-strong convergence principle for fejer monotone methods in Hilbert spaces, *Math. Oper. Res.* 26 (2001) 248–264.
- [10] H.H. Bauschke, E. Matousova, S. Reich, Projection and proximal point methods: convergence results and counterexamples, *Nonlinear Analysis: TMA.* 56 (2004) 715–738.
- [11] G. Beer, *Topologies on Closed and Closed Convex Sets*, Kluwer Academic Publishers Group, Dordrecht (1993).
- [12] V. Berinde, *Iterative approximation of fixed points*, Editura Efemeride, Romania (2002).

- [13] E. Blum, W. Oettli, From optimization and variational inequalities to equilibrium problems, *Math. Stud.* 63 (1994) 123–145
- [14] D. Boonchari, S. Saejung, Weak and strong convergence theorems of an implicit iteration for a countable family of continuous pseudocontractive mappings, *J. Comput. Appl. Math.* 233 (2009) 1108–1116.
- [15] D. Boonchari, S. Saejung, Construction of common fixed points of a countable family of λ -demicontractive mappings in arbitrary Banach spaces, *Appl. Math. Comput.* 216 (2010) 173–178.
- [16] D. Boonchari, S. Saejung, Approximation of common fixed points of a countable family of relatively nonexpansive mappings, *Fixed Point Theory Appl.* (2010), Article ID 407651, 26 pages.
- [17] H. Brezis, *Opérateurs maximaux monotones*, Mathematics Studies, vol. 5, North-Holland, Amsterdam (1973).
- [18] F.E. Browder, Nonexpansive nonlinear operators in a Banach space, *Proc. Natl. Acad. Sci. USA.* 54 (1965) 1041–1044.
- [19] F.E. Browder, W.V. Petryshyn, Construction of fixed points of nonlinear mappings in Hilbert spaces, *J. Math. Anal. Appl.* 20 (1967) 197–228.
- [20] R.E. Bruck, On the convex approximation property and the asymptotic behaviour of nonlinear contractions in Banach spaces, *Israel J. Math.* 38 (1981) 304–314.
- [21] R.E. Bruck, Nonexpansive projections on subsets of Banach spaces, *Pac. J. Math.* 47 (1973) 341–355.
- [22] R.E. Bruck, Properties of fixed-point sets of nonexpansive mappings in Banach spaces, *Trans. Am. Math. Soc.* 179 (1973) 251–262.
- [23] E. Cavazzuti, M. Pappalardo, M. Passacantando, Nash equilibria, variational inequalities, and dynamical systems, *J. Optim. Theor. Appl.* 114 (2002) 491–506.
- [24] M.S.R. Chowdhury, K.K. Tan, Generalization of Ky Fan's minimax inequality with applications to generalized variational inequalities for pseudomonotone operators and fixed point theorems, *J. Math. Anal. Appl.* 204 (1996) 910–929.
- [25] L.C. Ceng, J.C. Yao, A hybrid iterative scheme for mixed equilibrium problems and fixed point problems, *J. Comput. Appl. Math.* 214 (2008) 186–201.
- [26] L.C. Ceng, D.S. Shyu, J.C. Yao, Relaxed composite implicit iteration process for common fixed points of a finite family of strictly pseudocontractive mappings, *Fixed Point Theory Appl.* (2009), Art. ID 402602, 16 pages

- [27] L.C. Ceng, A. Petrusel, J.C. Yao, Strong convergence of modified implicit iterative algorithms with perturbed mappings for continuous pseudocontractive mappings, *Appl. Math. Comput.* 209 (2009) 162–176.
- [28] L.C. Ceng, S. Al-Homidan, Q.H. Ansari, J.C. Yao, An iterative scheme for equilibrium problems and fixed point problems of strict pseudo-contraction mappings, *J. Comput. Appl. Math.* 223 (2009) 967–974.
- [29] Y. Censor, S. Reich, Iterations of paracontractions and firmly nonexpansive operators with applications to feasibility and optimization, *Optimization* 37 (1996) 323–339.
- [30] R. Chen, Y. Song, H. Zhou, Convergence theorems for implicit iteration process for a finite family of continuous pseudocontractive mappings, *J. Math. Anal. Appl.* 314 (2006) 701–709.
- [31] C.E. Chidume, *Geometric Properties of Banach Spaces and Nonlinear Iterations*, in; Springer Lecture Notes Series (2009).
- [32] C.E. Chidume, C.O. Chidume, Iterative approximation of fixed points of nonexpansive mappings, *J. Math. Anal. Appl.* 318 (2006) 288–295.
- [33] C.E. Chidume, S.A. Mutangadura, An example of the Mann iteration method for Lipschitz pseudocontractions, *Proc. Am. Math. Soc.* 129 (8) (2001) 2359–2363.
- [34] C.E. Chidume, N. Shahzad, Weak convergence theorems for a finite family of strict pseudocontractions, *Nonlinear Anal. TMA.* 72 (2010) 1257–1265.
- [35] V. Colao, G.L. Acedo, G. Marino, An implicit method for finding common solutions of variational inequalities and systems of equilibrium problems and fixed points of infinite family of nonexpansive mappings, *Nonlinear Anal. TMA.* 71 (2009) 2708–2715.
- [36] P.L. Combettes, S.A. Hirstoaga, Equilibrium programming in Hilbert spaces, *J. Nonlinear Convex Anal.* 6 (2005) 117–136.
- [37] K. Fan, A generalization of Tychonoff's fixed point theorem, *Math. Ann.* 142 (1961) 305–310.
- [38] A. Genal, J. Lindenstrass, An example concerning fixed points, *Israel J. Math.* 22 (1975) 81–86.
- [39] F. Giannessi, *Variational Inequalities and Vector Equilibria: Mathematical Theories*, Kluwer Academic Publishers, Dordrecht, Holland (2000).
- [40] F. Giannessi, A. Maugeri, P.M. Pardalos (Eds.): *Equilibrium Problems: Nonsmooth Optimization and Variational Inequality Models*, Kluwer Academic Publishers, Dordrecht, Holland (2002).

- [41] K. Goebel, S. Reich, Uniform convexity, hyperbolic geometry, and nonexpansive mappings, Marcel Dekker, New York (1984).
- [42] K. Goebel, W.A. Kirk, Topics in Metric Fixed Point Theory, vol.28 of Cambridge Studies in Advanced Mathematics, Cambridge University Press, Cambridge, UK (1990).
- [43] B. Halpern, Fixed points of nonexpanding maps, Bull. Am. Math. Soc. 73 (1967) 957–961.
- [44] T. Ibaraki, Y. Kimura, W. Takahashi, Convergence theorems for generalized projections and maximal monotone operators in Banach spaces, Abstr. Appl. Anal. 10 (2003) 621–629.
- [45] S. Itoh, W. Takahashi, The common fixed point theory of singlevalued mappings and multivalued mappings, Pac. J. Math. 79 (1978) 493–508.
- [46] C. Jaiboon, The hybrid steepest descent method for addressing fixed point problems and system of equilibrium problems, Thai J. Math. 8 (2010) 275–292.
- [47] T. Jitpeera, P. Kumam, An extragradient type method for a system of equilibrium problems, variational inequality problems and fixed points of finitely many nonexpansive mappings, J. Nonlinear Anal. Optim. 1 (2010) 71–91.
- [48] S. Kamimura, W. Takahashi, Strong convergence of a proximal-type algorithm in a Banach space, SIAM J. Optim. 13 (2002) 938–945.
- [49] A. Kangtanyakarn, S. Suantai, A new mapping for finding common solutions of equilibrium problems and fixed point problems of finite family of nonexpansive mappings, Nonlinear Anal. TMA. 71 (2009) 4448–4460.
- [50] A. Kangtanyakarn, S. Suantai, Hybrid iterative scheme for generalized equilibrium problems and fixed point problems of finite family of nonexpansive mappings, Nonlinear Anal. Hybr. Syst. 3 (2009) 296–309.
- [51] T.H. Kim, H.K. Xu, Strong convergence of modified Mann iterations, Nonlinear Analysis TMA. 61 (2005) 51–60.
- [52] Y. Kimura, K. Nakajo, Some characterizations for a family of nonexpansive mappings and convergence of a generated sequence to their common fixed point, Fixed Point Theory Appl. (2010), doi:10.1155/2010/732872.
- [53] Y. Kimura, W. Takahashi, On a hybrid method for a family of relatively nonexpansive mappings in a Banach space, J. Math. Anal. Appl. 357 (2009) 356–363.
- [54] F. Kohsaka, W. Takahashi, Block iterative methods for a finite family of relatively nonexpansive mappings in Banach spaces, Fixed Point Theory Appl. (2007), Article ID 21972, 18 pages.

- [55] F. Kohsaka, W. Takahashi, Existence and approximation of fixed points of firmly nonexpansive type mappings in Banach spaces, *SIAM J. Optim.* 19 (2008) 824–835.
- [56] E. Kreyszig, *Introductory functional analysis with applications*, John Willey and Sons, New York, (1978).
- [57] P. Kumam, A hybrid approximation method for equilibrium and fixed point problems for a monotone mapping and a nonexpansive mapping, *Nonlinear Anal. Hybr. Syst.* 2 (2008) 1245–1255.
- [58] P.L. Lions, Approximation de points fixes de contractions, *C.R. Acad. Sci. Paris Ser. A-B* 284 (1977) A1357–A1359.
- [59] L.J. Lin, W.P. Wan, KKM type theorems and coincidence theorems with applications to the existence of equilibria, *J. Optim. Theor. Appl.* 123 (2004) 105–122.
- [60] W.R. Mann, Mean value methods in iteration, *Proc. Am. Math. Soc.* 4 (1953) 506–510.
- [61] G. Marino, H.K. Xu, Weak and strong convergence theorems for strict pseudocontractions in Hilbert spaces, *J. Math. Anal. Appl.* 329 (2007) 336–346.
- [62] S. Matsushita, W. Takahashi, Weak and strong convergence theorems for relatively nonexpansive mappings in Banach spaces, *Fixed point Theory Appl.* (2004) 37–47.
- [63] S. Matsushita, W. Takahashi, Approximating fixed points of nonexpansive mappings in a Banach space by metric projections, *Appl. Math. Comput.* 196 (2008) 422–425.
- [64] S. Matsushita, W. Takahashi, A strong convergence theorem for relatively nonexpansive mappings in a Banach space, *J. Approx. Theor.* 134 (2005) 257–266.
- [65] R.E. Megginson, *An Introduction to Banach Space*, Springer, New York, (1998).
- [66] U. Mosco, Convergence of convex sets and of solutions of variational inequalities, *Adv. Math.* 3 (1969) 510–585.
- [67] A. Moudafi, Weak convergence theorems for nonexpansive mappings and equilibrium problems, *J. Nonlinear Convex Anal.* 9 (2008) 37–43.
- [68] A. Maugeri, F. Raciti, On general infinite dimensional complementarity problems, *Optim. Lett.* 2 (2008) 71–90.

- [69] K. Nakajo, K. Shimoji, W. Takahashi, Strong convergence to common fixed points of families of nonexpansive mappings in Banach spaces, *J. Nonlinear Convex Anal.* 8 (2007) 11–34.
- [70] K. Nakajo, K. Shimoji, W. Takahashi, Strong convergence theorems by the hybrid method for families of nonexpansive mappings in Hilbert spaces, *Taiwanese J. Math.* 10 (2006) 339–360.
- [71] K. Nakajo, W. Takahashi, Strong convergence theorems for nonexpansive mappings and nonexpansive semigroups, *J. Math. Anal. Appl.* 279 (2003) 372–379.
- [72] W. Nilsrakoo, S. Saejung, Convergence theorems for a countable family of Lipschitzian mappings, *Appl. Math. Comput.* 214 (2009) 595–606.
- [73] M.A. Noor, An implicit method for mixed variational inequalities, *Appl. Math. Lett.* 11 (1998) 109–113.
- [74] Z. Opial, Weak convergence of successive approximations for nonexpansive mappings, *Bull. Am. Math. Soc.* 73 (1967) 591–597.
- [75] M.O. Osilike, A. Udomene, Demiclosedness principle and convergence results for strictly pseudocontractive mappings of Browder-Petryshyn type, *J. Math. Anal. Appl.* 256 (2001) 431–445.
- [76] P.M. Pardalos, T.M. Rassias, A.A. Khan, *Nonlinear Analysis and Variational Problems*, Springer, Berlin (2010).
- [77] J.W. Peng, Y.C. Liou, J.C. Yao, An iterative algorithm combining viscosity method with parallel method for a generalized equilibrium problem and strict pseudocontractions, *Fixed Point Theory Appl.* (2009), doi:10.1155/2009/794178.
- [78] J.W. Peng, Y. Wang, D.S. Shyu, J.C. Yao, Common solutions of an iterative scheme for variational inclusions, equilibrium problems, and fixed point problems, *J. Inequal. Appl.* (2008), doi:10.1155/2008/720371.
- [79] J.W. Peng, J.C. Yao, A new hybrid-extragradient method for generalized mixed equilibrium problems, fixed point problems and variational inequality problems, *Taiwanese J. Math.* 12 (2008) 1401–1432.
- [80] J.W. Peng, J.C. Yao, A modified CQ method for equilibrium problems, fixed points and variational inequality, *Fixed Point Theory*, 9 (2008) 515–531.
- [81] J.W. Peng, J.C. Yao, A viscosity approximation scheme for system of equilibrium problems, nonexpansive mappings and monotone mappings, *Nonlinear Anal. TMA.* 71 (2009) 6001–6010.

- [82] J.W. Peng, J.C. Yao, Ishikawa iterative algorithms for a generalized equilibrium problem and fixed point problems of a pseudo-contraction mapping, *J. Glob. Optim.* 46 (2010) 331–345.
- [83] S. Plubtieng, K. Ungchittrakool, Strong convergence theorems for a common fixed point of two relatively nonexpansive mappings in a Banach space, *J. Approx. Theor.* 149 (2007) 103–115.
- [84] X. Qin, Y.J. Cho, S.M. Kang, Convergence theorems of common elements for equilibrium problems and fixed point problems in Banach spaces, *J. Comput. Appl. Math.* 225 (2009) 20–30.
- [85] X. Qin, Y.J. Cho, S.M. Kang, H. Zhou, Convergence of a modified Halpern-type iteration algorithm for quasi- ϕ -nonexpansive mappings, *Appl. Math. Lett.* 22 (2009) 1051–1055.
- [86] S. Reich, A weak convergence theorem for the alternating method with Bregman distance, in: A.G.Kartsatos(Ed.), *Theory and Applications of Nonlinear Operator of Accretive and Monotone Type*, Marcel Dekker, New York, 1996, pp. 313–318.
- [87] S. Reich, Weak convergence theorems for nonexpansive mappings in Banach spaces, *J. Math. Anal. Appl.* 67 (1979) 274–276.
- [88] S. Reich, Constructive techniques for accretive and monotone operators, in: *Applied Nonlinear Anal.*, Academic Press, New York, 1979, pp. 335–345.
- [89] S. Reich, An iterative procedure for constructing zeros of accretive sets in Banach spaces, *Nonlinear Anal. TMA.* 2 (1978) 85–92.
- [90] S. Reich, Asymptotic behavior of contractions in Banach spaces, *J. Math. Anal. Appl.* 44 (1973) 57–70.
- [91] S. Reich, Strong convergence theorems for resolvents of accretive operators in Banach spaces, *J. Math. Anal. Appl.* 75 (1980) 287–292.
- [92] S. Reich, Approximating fixed points of nonexpansive mappings, *Panam. Math. J.* 4 (1994) 23–28.
- [93] Y. Shehu, Iterative approximation method for finite family of relatively quasi nonexpansive mappings and systems of equilibrium problems, *J. Glob. Optim.* (2011), doi: 10.1007/s10898-010-9619-4.
- [94] K. Shimoji, W. Takahashi, Strong convergence to common fixed points of infinite nonexpansive mappings and applications, *Taiwanese J. Math.* 5 (2001) 387–404.

- [95] N. Shioji, W. Takahashi, Strong convergence of approximated sequences for nonexpansive mapping in Banach spaces, *Proc. Am. Math. Soc.* 125 (1997) 3641–3645.
- [96] G. Stampacchia, Formes bilineaires coercivites sur les ensembles convexes, *Comptes Rendus del Academie des Sciences. Paris* 258 (1964) 4413–4416.
- [97] Y. Su, D. Wang, M. Shang, Strong convergence of monotone hybrid algorithm for hemi-relatively nonexpansive mappings, *Fixed Point Theory Appl.* (2008), doi:10.1155/2008/284613.
- [98] T. Suzuki, Strong convergence of Krasnoselskii and Manns type sequences for one parameter nonexpansive semigroups without Bochner integrals, *J. Math. Anal. Appl.* 305 (2005) 227–239.
- [99] A. Tada, W. Takahashi, Weak and strong convergence theorems for nonexpansive mappings and an equilibrium problem, *J. Optim. Theor. Appl.* 133 (2007) 359–370.
- [100] K.K. Tan, H.K. Xu, Fixed point iteration processes for asymptotically nonexpansive mappings, *Proc. Am. Math. Soc.* 122 (1994) 733–739.
- [101] K.K. Tan, H.K. Xu, Approximating fixed points of nonexpansive mappings by the Ishikawa iteration process, *J. Math. Anal. Appl.* 178 (1993) 301–308.
- [102] W. Takahashi, *Nonlinear Functional Analysis*, Yokohama Publishers, Yokohama (2000).
- [103] W. Takahashi, *Introduction to Nonlinear and Convex Analysis*, Yokohama Publishers, Yokohama (2009).
- [104] W. Takahashi, Y. Takeuchi, R. Kubota, Strong convergence theorems by hybrid methods for families of nonexpansive mappings in Hilbert spaces, *J. Math. Anal. Appl.* 341 (2008) 276–286.
- [105] W. Takahashi, K. Zembayashi, Strong and weak convergence theorems for equilibrium problems and relatively nonexpansive mappings in Banach spaces, *Nonlinear Anal. TMA.* 70 (2009) 45–57.
- [106] W. Takahashi, K. Zembayashi, Strong convergence theorem by a new hybrid method for equilibrium problems and relatively nonexpansive mappings, *Fixed Point Theory Appl.* (2008), doi:10.1155/2008/528476.
- [107] W. Takahashi, K. Shimoji, Convergence theorems for nonexpansive mappings and feasibility problems, *Math. Comput. Modelling* 32 (2000) 1463–1471.
- [108] S. Takahashi, W. Takahashi, Strong convergence theorem for a generalized equilibrium problem and a nonexpansive mapping in a Hilbert space, *Nonlinear Anal. TMA.* 69 (2008) 1025–1033.

- [109] G.Q. Tian, Generalizations of the FKKM theorem and the Ky Fan minimax inequality, with applications to maximal elements, price equilibrium, and complementarity, *J. Math. Anal. Appl.* 170 (1992) 457–471.
- [110] K. Wattanawitoon, P. Kumam, Strong convergence theorems by a new projection algorithm for fixed point problems and equilibrium problems of two relatively quasi-nonexpansive mappings. *Nonlinear Anal. Hybrid Syst.* 3 (2009) 11–20.
- [111] R. Wittmann, Approximation of fixed points of nonexpansive mappings, *Arch. Math. (Basel)* 58 (1992) 486–491.
- [112] H.K. Xu, Strong convergence of approximating fixed point sequences for nonexpansive mappings, *Bull. Austral. Math. Soc.* 74 (2006) 143–151.
- [113] H.K. Xu, Iterative algorithms for nonlinear operators, *J. Lond. Math. Soc.* 66 (2002) 240–256.
- [114] H.K. Xu, Inequalities in Banach spaces with applications, *Nonlinear Anal. TMA.* 16 (1991) 1127–1138.
- [115] Y. Yao, Y.C. Liou, G. Marino, Strong convergence of two iterative algorithms for nonexpansive mappings in Hilbert spaces, *Fixed Point Theory and Appl.* (2009), Article ID 279058, 7 pages.
- [116] E. Zeidler, *Nonlinear Functional Analysis and its Applications. I: Fixed-Point Theorems*, Springer, New York (1985).
- [117] S. Zhang, Generalized mixed equilibrium problem in Banach spaces, *Appl. Math. Mech.* 30 (2009) 1105–1112.
- [118] Y. Zhang, Y. Guo, Weak convergence theorems of three iterative methods for strictly pseudocontractive mappings of Browder-Petryshyn type, *Fixed Point Theory Appl.* (2008) Art. ID 672301, 13 pages.
- [119] H. Zhang, Y. Su, Convergence theorems for strict pseudo-contractions in q -uniformly smooth Banach spaces, *Nonlinear Anal. TMA.* 71 (2009) 4572–4580.
- [120] H. Zhou, Convergence theorems of fixed points for Lipschitz pseudo-contractions in Hilbert spaces, *J. Math. Anal. Appl.* 343 (2008) 546–556.
- [121] H. Zhou, Convergence theorems for λ -strict pseudocontractions in 2-uniformly smooth Banach spaces, *Nonlinear Anal. TMA.* 69 (2008) 3160–3173.
- [122] H. Zhou, Convergence theorems for λ -strict pseudo-contractions in q -uniformly smooth Banach spaces, *Acta Math. Sin., Engl. Ser.* 26 (2010) 743–758.

- [123] H. Zhou, Convergence theorems of common fixed points for a finite family of Lipschitz pseudocontractions in Banach spaces, *Nonlinear Anal. TMA.* 68 (2008) 2977–2983.



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