

List of Publication (2012–2021)

Year 2021

1. George, R. and Pathak, H.K. Some New Extensions of Multivalued Contractions in a b-metric Space and Its Applications, *Mathematics*, **9**, no. 1, 2021. <https://doi.org/10.3390/math9010012>.
2. Rajagopalan R., Tamrakar E., Alshammari F., Pathak H. K. and George R. Edge Theoretic Extended Contractions and Their Applications, *Journal of Function Spaces*, **2021**, (2021), 1-11. <https://doi.org/10.1155/2021/5157708>

Year 2019

1. H.K. Pathak and Mayur Puri Goswami Some results on F -fusion Banach frame. *Palestine Journal of Mathematics* 8(1), (2019) , 285–293.
2. George, Reny & Tamrakar, Ekta & Vujaković, Jelena & Pathak, H. & Velusamy, Selvavinayagam. (2019). (C, Ψ, G) Class of Contractions and Fixed Points in a Metric Space Endowed with a Graph *. *Mathematics*. 7. 482. 10.3390/math7050482.

Year 2018

1. Sharma BK, Gurudwan N, Awadhiya A, Kang SM. A Splitting Iterative Method for a System of Accretive Inclusions in Banach Spaces. *Journal of Computational Analysis and Applications*. 2018,522.
2. Neetu Sharma, Birendra Kumar Sharma, Identity-based signature scheme using random oracle model, *Journal of Computer and Mathematical Sciences*, Vol.9 (4), 254 - 263, (2018).
3. Neetu Sharma, Rajeev Ananda Sahu, Vishal Saraswat, Dr. Birendra Kumar Sharma, Strong Designated Verifier Signcryption Signature Scheme, Accepted in Provsec 2018.
4. H. K. Pathak and I. Beg, Hybrid fixed point in $CAT(0)$ spaces, *Jour. Nonlinear Analysis and Application*, (2018)1,2018, 34-47.
5. H. K. Pathak and I. Beg, Fixed point of multivalued contractions by altering distances with application to nonconvex Hammerstein type integral inclusions, *IJNAA*, 2018.
6. I. Beg and H. K. Pathak, A variant of Nadler's fixed point theorem on weak partial metric spaces with application to a homotopy result, *Vietnam Journal of Mathematics*, 46(3), 2018, 693-706.
7. I. Beg and H. K. Pathak, Coincidence Theorems and its Applications to Stability of Iterative Procedures in Abstract Metric Spaces, *AAM*, (2), 2018, 1018-1038.

8. Mayur puri goswami and H.K. Pathak , Some results on Λ -Banach frames for operator spaces. *Jordan Journal of Mathematics and Statistics* 11(2), 2018, 169 – 194.
9. B.S.Thakur, R.Dewangan, A new implicit iteration with perturbed mapping for pseudocontraction, *Journal of Nonlinear and Convex Analysis*, 19(2) (2018), 239-249 (*SCI Journal IF* 0.691)

Year 2017

1. Vandana, B. K. Sharma, A deterministic inventory model for non-instantaneous deteriorating items with ramp-type demand rate and shortages under permissible delay in payments *Rivista di Matematica per le Scienze Economiche e Sociali* 71((2)):129-159 · January 2017
2. YC Lin, BK Sharma, A Kumar, N Gurudwan Viscosity approximation method for common fixed point problems of a finite family of nonexpansive mappings *JOURNAL OF NONLINEAR AND CONVEX ANALYSIS*, 2017, 18(5), 949-966.
3. Kashyap SK, Sharma BK, Banerjee A. Cancer Control Algorithm. *Journal of experimental therapeutics& oncology*. 2017,12(2).
4. Kashyap SK, Sharma BK, Banerjee A, Tiwari AK, Jain VK, Jain S, Pandey A. Cancer medicine: a direction. *Journal of experimental therapeutics & oncology*. 2017 Jul 1;12(3).
5. Kashyap SK, Sharma BK, Banerjee A, Tiwari AK, Jain VK, Jain S, Pandey A. Cancer medicine: a direction. *Journal of experimental therapeutics & oncology*. 2017 ,12(3).
6. Kashyap SK, Sharma BK, Banerjee A. Cancer-meter: measure and cure. *Journal of experimental therapeutics & oncology*. 2017 ,12(1).
7. H. K. Pathak and E. Tamrakar, An Application of Fixed Point Theorem to /local Attractivity of Solutions of a Generalized Functional Nonlinear Integral Equation, *Recent Advances in Fixed Point Theory and Applications*, 2017.
8. H. K. Pathak and I. Beg, Invariant Approximations in Banach Spaces, *Commun. Optim. Theory* 2018, to appear.
9. B.S.Thakur, R.Dewangan, A.Kurdi, Implicit iteration scheme with numerical analysis for a finite family of strictly pseudocontractivemappings *University Politehnica of Bucharest Scientific Bulletin-Series A-Applied Mathematics and Physics (U POLITEH BUCH SER A)* 79 (2017), 11-24 (*SCI Journal IF* 0.365)
10. B.S.Thakur, D.Thakur, R.P.Agarwal, Convergence theorems for total asymptotically nonexpansive mappings in $CAT(0)$ spaces, *Journal of Nonlinear and Convex Analysis*, 18(11) (2017), 2059-2074 (*SCI Journal IF* 0.691)

Year 2016

1. Neetu Sharma, Rajeev Ananda Sahu, Vishal Saraswat, Birendra Kumar Sharma, Adaptively Secure Strong Designated Signature, Lecture notes in computer science 10095, pp. 43-60, Springer, Indocrypt 2016.
2. Vandana, B. K. Sharma, An inventory model for non-instantaneous deteriorating items with quadratic demand rate and shortages under trade credit policy, volume 6, Number 3, 2016, Pages 720-737.
3. Vandana, B. K. Sharma, A deterministic inventory model for non-instantaneous deteriorating items with ramp-type demand rate and shortages under permissible delay in payments, Le Matematiche, Vol 71(2), 2016.
4. Thakur T, Sharma B. K. An ID-based key-exposure free chameleon hashing under Schnorr signature. Journal of Mathematical and Computational Science. 2016 Apr 23;6(3):281-9.
5. Thakur T, Sharma BK. ID-BASED CHAMELEON HASHING AND CHAMELEON SIGNATURE BASED ON GQ SCHEME. International Journal of Applied Mathematics. 2016;29(2):227-42.
6. H. K. Pathak, V. K. Sahu and Yeol Je Cho, Approximation of a common minimum-norm fixed point of a finite family of σ –asymptotically quasi-nonexpansive mappings with applications, J. Nonlinear Sci. Appl. 9 (2016), 3240-3254
7. B.S.Thakur, D.Thakur, M.Postolache, A new iteration scheme for approximating fixed points of nonexpansive mapping, Filomat 30(10) (2016), 2711–2720 (*SCI Journal IF* 0.365)
8. B.S.Thakur, M.S.Khan, Strong convergence of finite family of pseudocontractive mappings by a new implicit iteration, Journal of Nonlinear Analysis and Optimization, 7(1) (2016), 31-40
9. P.Chandra, B.S.Thakur, Multipliers for modified weighted Norlund means for conjugate series of a Fourier series, Bull. Allahabad Math.Soc., 32(2) (2016), 167-182.
10. B.S.Thakur, D.Thakur, M.Postolache, A new iterative scheme for numerical reckoning fixed points of Suzuki’s generalized nonexpansive mappings, Applied Mathematics and Computation, 275 (2016), 147-155 (*SCI Journal IF* 1.345).

Year - 2015

1. B.S.Thakur, R.Dewangan, A.Kurdi, Implicit iteration scheme with numerical analysis for a finite family of strictly pseudocontractive mappings University Politehnica of Bucharest Scientific Bulletin-Series A-Applied Mathematics and Physics (U POLITEH BUCH SER A) (*SCI Journal IF* 0.365) (to appear)
2. B.S.Thakur, D.Thakur, M.Postolache, A new iteration scheme for approximating fixed points of nonexpansive mapping, Filomat (*SCI Journal IF* 0.365) (to appear)

3. B.S.Thakur, D.Thakur, R.P.Agarwal, Convergence theorems for total asymptotically nonexpansive mappings in CAT(0) spaces, *Journal of Nonlinear and Convex Analysis (SCI Journal IF 0.691) (to appear)*
4. B.S.Thakur, M.S.Khan, Strong convergence of finite family of pseudocontractive mappings by a new implicit iteration, *Journal of Nonlinear Analysis and Optimization, (in press)*
5. B.S.Thakur, D.Thakur, M.Postolache, A new iterative scheme for numerical reckoning fixed points of Suzuki's generalized nonexpansive mappings, *Applied Mathematics and Computation, 275 (2016), 147-155 (SCI Journal IF 1.345).*
6. B.S.Thakur, D.Thakur, M.Postolache, Modified Picard-Mann hybrid iteration process for total asymptotically nonexpansive mappings, *Fixed Point Theory and Applications, 2015 (2015), 2015:140 (SCI Journal IF 2.486).*
7. A.K.Sharma, B.S.Thakur, Best proximity points for K-rational proximal contraction of first and second kind, *Annals of the University of Bucharest. Mathematical Series, 6(64) No.1 (2015), 105-118.*
8. D.Thakur, B.S.Thakur, M.Postolache, Convergence theorems for generalized nonexpansive mappings in uniformly convex Banach spaces, *Fixed Point Theory and Applications, 2015 (2015), 2015:144 (SCI Journal IF 2.486).*
9. B.S.Thakur, R.Dewangan, M.S.Khan, A new hybrid cyclic algorithm for two finite families of strictly asymptotically pseudocontractive mappings, *Sarajevo Journal of Mathematics, 11(24), No.2 (2015), 205-218.*
10. B.S.Thakur, R.Dewangan, M.S.Khan, Strong convergence of two finite families of asymptotically pseudocontractive mappings, *Annals of the University of Bucharest. Mathematical Series, 6(64) No.2 (2015), 263-281.*
11. B.S.Thakur, R.Dewangan, M.Postolache, New iteration process for pseudocontractive mappings with convergence analysis, *Fixed Point Theory and Applications, 2015 (2015), 2015:55 (SCI Journal IF 2.486).*
12. B.S.Thakur, M.S.Khan, Dipti Thakur, Fixed point theorems for nonself asymptotically nonexpansive type mappings in CAT(0) spaces, *Journal of Nonlinear Analysis and Application, 2015(2) (2015), 87-94.*

Year – 2014

1. R.Dewangan, B.S.Thakur, M.Postolache, Strong convergence of asymptotically pseudocontractive semigroup by viscosity iteration, *Applied Mathematics and Computation, 248 (2014), 160–168 (SCI Journal IF 1.551).*
2. B.S.Thakur, R.Dewangan, M.Postolache, General composite implicit iteration process for a finite family of asymptotically pseudo-contractive mappings, *Fixed Point Theory and Applications, 2014 (2014), 2014:90 (SCI Journal IF 2.486).*
3. B.S.Thakur, Solvability of extended general strongly mixed variational inequalities, *International Journal of Analysis and Applications, 4(1) (2014), 78-86.*
4. B.S.Thakur, A.Sharma, Existence and convergence of best proximity points for semi cyclic contraction pairs, *International Journal of Analysis and Applications, 5(1) (2014), 33-44.*

5. A.Sharma, B.S.Thakur, Best proximity points for K-proximal contraction, *International Journal of Analysis and Applications*, 6(1) (2014), 82-88.
6. M.K.Chande, B.S.Thakur, An improved proxy blind signature scheme with forward security, *International Journal of Computer Applications*, 85(15) (2014), 1-4.
7. M.K.Chande, B.S.Thakur, An elliptic curve based multi-signature scheme for wireless network, *International Journal of Information & Network Security (IJINS)* , 3(1) (2014), 33-39.
8. D.Thakur, B.S.Thakur, M.Postolache, New iteration scheme for numerical reckoning fixed points of nonexpansive mappings, *Journal of Inequalities and Applications*, 2014 (2014), 2014:328 (*SCI Journal IF 0.773*).
9. B.S.Thakur, S.Varghese, Generalized nonlinear variational inequalities, *Novi Sad Journal of Mathematics*, 44(2) (2014), 29-40.
10. R.Dewangan, B.S.Thakur, M.Postolache, A hybrid iteration for asymptotically strictly pseudocontractive mappings, *Journal of Inequalities and Applications*, 2014 (2014), 2014:374 (*SCI Journal IF 0.773*).
11. M.R.Yadav, A.K.Sharma, B.S.Thakur, Best proximity point theorems for generalized contraction in metric spaces, *Journal of Nonlinear Functional Analysis*, 2014 (2014), 2014:2.
12. A.Moudafi, B.S.Thakur, Solving Proximal Split Feasibility Problems without prior knowledge of operator norms, *Optimization Letters*, 8(7) (2014), 2099-2110 (*SCI Journal IF 0.934*).
13. M.R.Yadav, A.K.Sharma, B.S.Thakur, Best proximity point theorems for multivalued mappings in complete metric spaces, *Sarajevo Journal of Mathematics*, 10(23) (2014), 185-195.

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1. B.S.Thakur, S.Varghese, Solvability of a system of generalized extended variational inequalities, *Advances in Fixed Point Theory*, 3(4) (2013), 629-647.
2. M.R.Yadav, B.S.Thakur, A.K.Sharma, Best proximity points for generalized proximity contraction in complete metric spaces, *Advances in Fixed Point Theory*, 3(2) (2013), 392-405.
3. B.S.Thakur, S.Varghese, Generalized set-valued nonlinear variational-like inequalities, *Annals of the University of Bucharest. Mathematical Series.*, 4(62) (2013), 541-560.
4. M.Abbas, B.S.Thakur, D.Thakur, Fixed points of asymptotically nonexpansive mappings in the intermediate sense in CAT(0) spaces, *Communications of the Korean Math. Soc.*, 28(1) (2013), 107–121.
5. B.S.Thakur, S.Varghese, Solvability of a system of generalized extended variational inequalities, *Advances in Fixed Point Theory*, 3 (2013), No.4, 629-647.
6. B.S.Thakur, An iterative method for finite family of hemi contractions in Hilbert space, *Cubo. A Mathematical Journal.*, 15(2) (2013), 105-110.

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8. A.Sharma, M.Imdad, B.S.Thakur, Convergence of modified Ishikawa's iteration process for asymptotically pseudocontractive mappings, *Functional Analysis, Approximation and Computation*, 5(1) (2013), 21-32 .
9. M.R.Yadav, B.S.Thakur, A.K.Sharma, Two-step iteration process for contractive condition in Banach space, *International J. of Math. Sci. &Engg. Appls. (IJMSEA)*, 7(1) (2013), 47-56.
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11. M.R.Yadav, A.K.Sharma, B.S.Thakur, Best proximity point theorems for MT-K and MT-C rational cyclic contractions in metric spaces, *International Journal of Mathematical, Computational, Physical, Electrical and Computer Engineering*, 7(8) (2013), 167-172.
12. M.R.Yadav, B.S.Thakur, A.Sharma, Three step iteration scheme for m-contractive condition in Banach spaces, *International Journal of Pure and Applied Mathematics*, 85(1) (2013), 23-31.
13. B.S.Thakur, Iterative approximation for common solution of a finite family of m-accretive operators, *Journal of Advanced Mathematical Studies*, 6(1) (2013), 34-42.
14. M.R.Yadav, B.S.Thakur, A.K.Sharma, Best proximity point theorems for rational expression in complete metric spaces, *Journal of Computer and Mathematical Sciences*, 4(3) (2013), 153-159 .
15. B.S.Thakur, M.Postolache, Existence and approximation of solutions for generalized extended nonlinear variational inequalities, *Journal of Inequalities and Applications*, 2013 (2013), 2013:590 (*SCI Journal IF 0.768*).
16. M.R.Yadav, B.S.Thakur, A.K.Sharma, Two-step iteration scheme for nonexpansive mappings in uniformly convex Banach space, *Journal of Inequalities and Special Functions*, 4(4) (2013), 21-28.
17. B.S.Thakur, Strong convergence theorems for semigroup of asymptotically nonexpansive mappings using viscosity approximation, *Kragujevac Journal of Mathematics*, 37(1) (2013), 141-158.
18. B.S.Thakur, R.Dewangan, M.Postolache, Strong convergence of strongly continuous semigroup of asymptotically pseudocontractive mappings, *Numerical Functional Analysis and Optimization*, 34(12) (2013), 1418--1431 (*SCI Journal IF 0.542*).
19. B.S.Thakur, S.Varghese, Solvability of a system of nonconvex general variational inequalities, *Sarajevo Journal of Mathematics*, 9(21) (2013), 109-116.
20. B.S.Thakur, S.Varghese, Approximate solvability of general strongly mixed variational inequalities, *Tbilisi Mathematical Journal*, 6 (2013), 13-20.

Year – 2012

1. B.K.Sharma, B.S.Thakur, Convergence theorems for semigroup of asymptotically nonexpansive mappings, *Annals of the University of Bucharest. Mathematical Series.*, 3(61) (2012), 89-96.
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5. B.S.Thakur, S.Varghese, Solvability Solvability of a general system of nonconvex variational inequalities using parallel projection method, *Mathematica Moravica*, 16(2) (2012), 79-87.
6. B.S.Thakur, M.S.Khan, Strong convergence for semigroup of asymptotically pseudocontractive mappings, *Nonlinear Functional Analysis and Applications*, 17(2) (2012), 213-224.
7. B.S.Thakur, Strong convergence for asymptotically ϕ -hemicontractive mappings, *ROMAI Journal*, 8(1) (2012), 165-171.
8. B.S.Thakur, Strong convergence for finite family of asymptotically nonexpansive mappings in the intermediate sense, *Scientific Studies and Research. Series (Mathematics and Informatics)*, 22(2) (2012), 5-16."