

Research Paper Publications of Dr. Jai Prakash Jaiswal

- (1) J. P. Jaiswal: Existence and Uniqueness theorems for a three-step Newton type method under L -average conditions, *Journal of Nonlinear Modeling and Analysis*, accepted for publication.
- (2) Neha Gupta, **J. P. Jaiswal**: Ball Convergence of modified Homeier method in Banach spaces under weak continuity condition, *The Journal of Indian Mathematical Society*, accepted for publication. (Scopus indexing)
- (3) Neha Choubey, **J. P. Jaiswal**, Abhishek Choubey: Family of multi-point with memory methods for solving nonlinear equations, *Int. J. Appl. Comput. Math.*, **8**, 83 (2022). (Scopus indexing)
- (4) Akanksha Saxena, I. K. Argyros, **J. P. Jaiswal**, Christopher Argyros, K. R. Pardasani: On the local convergence of two-step Newton type method in Banach spaces under generalized Lipschitz conditions, *Mathematics*, **9**, 669-689 (2021). (SCIE indexing & Impact factor 2.258)
- (5) Kailash Yadav, **J.P. Jaiswal**: A comparative study of numerical solution of pantograph equations using various wavelets techniques, *TWMS J. App. and Eng. Math.*, **11** (3), 772-788 (2021). (Scopus indexing)
- (6) Neha Gupta, **J. P. Jaiswal**: Semilocal Convergence of modified Chebyshev-Halley method for nonlinear operators in case of unbounded third derivative, *Numerical Analysis and Applications*, **14** (1), 40-54 (2021). (Scopus indexing)
- (7) Neha Gupta, **J. P. Jaiswal**: On the family of improved super-Halley method for unbounded operators, *Azerbaijan Journal of Mathematics*, 75-90 (2021). (Scopus indexing)
- (8) **J. P. Jaiswal**: Semilocal convergence and its computational efficiency of a seventh-order method in Banach spaces, *Proceedings of the National Academy of Sciences, India Section A: Physical Sciences*, **90**(2), 271-279 (2020) (Springer) (SCIE & Impact factor 1.544)
- (9) Neha Gupta, **J. P. Jaiswal**: Semilocal convergence of a Seventh-order method in Banach spaces under Holder continuity condition, *The Journal of the Indian Mathematical Society*, **87**, 56-69 (2020) (Scopus indexing)
- (10) Neha Gupta, **J. P. Jaiswal**: Semilocal convergence of a Seventh-order method in Banach spaces under w -continuity condition, *Surveys in Mathematics and its Applications*, **15**, 325-339 (2020). (Scopus indexing)
- (11) I. K. Argyros, Neha Gupta, **J. P. Jaiswal**: Extending the applicability of two-step Chord-type method for non-differentiable operators, *Mathematics*, **7**, 804-810 (2019). (SCIE indexing & Impact factor 2.258)
- (12) Zhang Yong, Neha Gupta, **J. P. Jaiswal**, K. Madhu: On the Semilocal Convergence of multi-Point variant of Jarratt method in case of unbounded third derivative, *Mathematics*, **7**, 540-553 (2019). (SCIE indexing & Impact factor 2.258)
- (13) Neha Gupta, **J. P. Jaiswal**: On the semilocal convergence analysis of higher order iterative method in two folds, *Int. J. Appl. Comput. Math.* (2019) **5**: Article 150. (Scopus indexing)
- (14) **J. P. Jaiswal**: Semilocal convergence analysis and comparison of revisited computational efficiency of the sixth-order method in Banach spaces, *Novi Sad J. Math.* **49**(2), 1-16 (2019). (Scopus indexing)
- (15) **J. P. Jaiswal**, Bhavna Panday, Neha Choubey: Analysis of semilocal convergence under W -continuity condition on second order Frechet derivative in Banach space, *Acta Mathematica Universitatis Comenianae*, **LXXXVIII** (2), 173-185 (2019). (Scopus indexing)
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- (19) **J. P. Jaiswal**, Kailash Yadav: Method for Solving Lane-Emden type differential equations by coupling of wavelets and Laplace transform, *International Journal of Advances in Mathematics*, Volume 2019, Number 2, Pages 18-34 (2019).
- (20) Neha Choubey, Alicia Cordero, **J. P. Jaiswal** and J. R. Torregrosa: Dynamical techniques for analyzing iterative schemes with memory, *Complexity*, Volume 2018, Article ID 1232341, 13 pages. (SCIE & Impact factor 2.833)

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- (23) Neha Choubey, Bhawna Panday, **J. P. Jaiswal**: Several two-point with memory methods for solving nonlinear equations, *Africa Matematica*, 29, 435-449 (2018). (Springer) (Scopus indexing)
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- (4) **J. P. Jaiswal**: An improved R-order convergence derivative-free method for solving nonlinear equations, *Procedia Engineering*, 127, 383-390 (2015). (Elsevier) (Scopus indexing)
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