

Resume

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Awarded **Fellow of Vijyan Parishad of India (2023)**.

Associate Editor: **Mathematica Moravica**

Member of Editorial Board: **Jñānābha**

Member of Editorial Board: **Journal of Innovation Sciences and Sustainable Technology (www.jisst.com)**

Administrative Secretary: **Indian Society for History of Mathematics**

Regional Co-ordinator Mathematical Olympiad Programme: to conduct RMO and INMO Examinations in Uttarakhand state. These activities are sponsored by National Board for Higher Mathematics (NBHM), DAE, Govt. of India.

List of Publications (2018 onwards).

1. Chetna Mehra, Narendra Biswas and **Mahesh C Joshi**, “Some results on d -frames”, *Jñānābha*, 53(1), (2023), 286-291.
2. Vijay K Shukla, Afef Fekih, **Mahesh C Joshi** and Prashant K Mishra, “Study of finite-time synchronization between memristive neural networks with leakage and mixed delays”, *International Journal of Dynamics and control*, <https://doi.org/10.1007/s40435-023-01252-z> (2023).
3. Vijay K Shukla, **Mahesh C Joshi**, Grienggrai Rajchakit, Prasun Chakrobarti, Anuwat Jirawattanapanit and Prashant K Mishra, “Study of Generalized synchronization and anti-synchronization between different dimensional fractional-order chaotic systems with uncertainties”, *Differential Equations and Dynamical Systems*, <https://doi.org/10.1007/s12591-023-00653-y> (2023).
4. M. C. Arya, N. Chandra and **Mahesh C. Joshi**, “Some common fixed point results on (ψ, ϕ) contraction”, *Bol. Soc. Paran. Mat.*, (2023) (Accepted).
5. M. C. Arya, N. Chandra and **Mahesh C. Joshi**, “Common fixed point results for a generalized (ψ, ϕ) -rational contraction”, *Applied General Topology*, 24(1) (2023), 129-144.
6. Narendra Biswas, Chetna Mehra and **Mahesh C. Joshi**, “Frames generated by double sequences in Hilbert spaces”, *Mathematica Moravica*, 27(1) (2023), 53-72.
7. Abhijit Pant, R. P. Pant, **Mahesh C. Joshi** and V. Rakocevic, “Fixed points of a family of mappings and equivalent characterizations”, *Filomat*, 37(5) (2023), 1391-1397.
8. N. Chandra, Bharti Joshi and **Mahesh C. Joshi**, “Generalized fixed point theorems on metric spaces”, *Mathematica Moravica*, 26(2) (2022), 85-101.
9. R. P. Pant, Rale M. Nikolic, Abhijit Pant and **Mahesh C. Joshi**, “A Caristi and Meir-Keeler type characterization of completeness for Menger PM spaces”, *Dynamic System and Applications*, 31(3) (2022), 181-193.

10. R. Kumar, N. Chandra, N. Garakoti and **Mahesh C. Joshi**, “Some results on non-expansive type mappings”, Appl. Math. E-Notes, 22 (2022), 287-298.
11. Monika Narang, **Mahesh C. Joshi** and A. K. Pal, “A hesitant fuzzy multiplicative Base-criterion multi-criteria group decision making method”, Informatica, 46 (2022) 235–242.
12. Monika Narang, **Mahesh C. Joshi**, Kiran Bisht and Arun Pal, “Stock portfolio selection using a new decision-making approach based on the integration of fuzzy CoCoSo with Heronian mean operator”, Decision Making: Applications in Management and Engineering, 5(1) (2022), 90-112.
13. C. Pant, B. Pande, S. Pande and **Mahesh C. Joshi**, “Evaluation of reconnection parameters for collisionless dispensation in solar corona”, Jñānābha, 52(1) (2022), 22-29.
14. Neeraj Garakoti, **Mahesh C. Joshi** and Rohit Kumar, “Fixed point for F_{\perp} –weak contraction”, Mathematica Moravica, 25(1) (2021), 113-122.
15. Monika Narang, **Mahesh C. Joshi** and A. K. Pal, “A hybrid fuzzy COPRAS-base-criterion method for multi-criteria decision making”, Soft Computing, 25 (2021), 8391-8399.
16. N. Chandra, Bharti Joshi , M. C. Arya and **Mahesh C. Joshi**, “A common fixed point theorem for weakly compatible mappings”, Jñānābha, 51(2) (2021), 274-280.
17. M. C. Singh, **Mahesh C. Joshi** and N. Chandra, “Fixed point theorems on a closed ball”, Mathematica Moravica, 25(1) (2021), 47–55.
18. Vaibhav Sharma, **Mahesh C. Joshi** and Sanjay Kumar, “Fixed point theorems for contractive and weakly compatible mapping in complete intuitionistic fuzzy metric space”, The Journal of Analysis, 29 (2021), 1375-1390.
19. Vijay Dalakoti, Ravindra K. Bisht, R. P. Pant and **Mahesh C. Joshi**, “A Unified Common Fixed Point Theorem for a Family of Mappings”, Filomat, 35(3) (2021), 759–769.
20. M. C. Arya, N. Chandra and **Mahesh C. Joshi**, “Fixed point of (ψ, φ) contractions on metric spaces”, The Journal of Analysis, 28 (2020), 461-469.
21. R. P. Pant, Nihal Ozgur, Nihal Tas, Abhijit Pant and **Mahesh C. Joshi**, “New results on discontinuity at fixed point”, J. Fixed Point Theory Appl., 22(39) (2020), 1-14.
22. S. Pande, H. Bisht, M. C. Mathpal, C. Pant, B. Pande and **Mahesh C. Joshi**, “Study of Alfvén waves using magneto hydrodynamic equations in solar atmosphere”, Jñānābha, 50(2) (2020), 236-243.
23. N. Chandra, **Mahesh C. Joshi** and N. K. Singh, “Fixed point theorems for generalized non-expansive mappings”, Jñānābha, 49(2) (2019), 1-5.
24. **Mahesh C. Joshi**, M. Rani and N. Chandra, “Transcendental Picard-Mann hybrid Julia and Mandelbrot sets”, Mathematica Moravica, 23(1) (2019), 41-49.
25. Abhijit Pant, R. P. Pant and **Mahesh C. Joshi**, “Caristi Type and Meir-Keeler Type Fixed Point Theorems”, Filomat, 33(12) (2019), 3711-3721.
26. N. Chandra, **Mahesh C. Joshi** and N. K. Singh, “Fixed point theorems for generalized multi-valued contraction”, Journal of Analysis, 26 (2018), 49-59.
27. M. C. Arya, N. Chandra and **Mahesh C. Joshi**, “A coincidence point theorem in partial metric space”, Ganita, 68(2) (2018), 01-06.

Book (Edited): Fixed Point Theory and its Applications to Real World Problem, Nova Science Publishers, Inc. (USA), (2021), [ISBN:978-1-53619-336-7].

Book Chapters:

1. R. Kumar, N. Garakoti, Mahesh C. Joshi, Fixed Point Theorems for Asymptotically Regular Maps in Partial Metric Space, Chapter 11 in: Fixed Point Theory and its Applications to Real World Problem, Nova Science Publishers, Inc. (USA), (2021), 171- 184 [ISBN:978-1-53619-336-7].
2. N. Garakoti, Mahesh C. Joshi, R. Kumar, An Iterative Algorithm for Weak Contraction Mappings, Chapter 13 in: Fixed Point Theory and its Applications to Real World Problem Nova Science Publishers, Inc. (USA), (2021), 217-234 [ISBN:978-1-53619-336-7].
3. N. Chandra, Mahesh C. Joshi, B. Joshi, N. K. Singh, Coincidence point theorems for non-expansive type mappings and an application to dynamic programming, Chapter 6 in: Fixed Point Theory and its Applications to Real World Problem, Nova Science Publishers, Inc. (USA), (2021), 85-100. [ISBN: 978-1- 53619-336-7]
4. N. Chandra, M. C. Arya, Mahesh C. Joshi, Coincidence point theorems for generalized contraction in partial metric spaces, Chapter 10 in: Recent Advances in Fixed Point Theory and Applications, Nova Science Publishers, Inc. (USA), (2017), 149-156. [ISBN: 978-1-53612-085-1]
5. Abhijit Pant, R. P. Pant, Mahesh C. Joshi, Fixed points under a new commuting condition, Chapter 8 in: Recent Advances in Fixed Point Theory and Applications, Nova Science Publishers, Inc. (USA), (2017), 125-134. [ISBN: 978-1-53612-085-1]