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Name: – Dr. Sanjeev Kumar Singh

Designation: – Assistant Professor

Department: – Mathematics

College Name: – V.S.S.D. College, Kanpur

Pin Code: – 208002



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Area of Research: - Nonlinear and Nonsmooth Optimization, Interval Valued Optimization, Operations Research

Educational details: -

- **Ph.D.** from Department of Mathematics, Institute of Science, Banaras Hindu University, Varanasi in 2022.
Thesis Title: Some Contributions to Variational Inequalities and Interval-Valued Optimization Problems
- **M.Sc.** in Mathematics, Banaras Hindu University, Varanasi, CGPA- **8.08 (76.30%)** in 2015.
- **B.Sc.** Mathematics and Physics, Udai Pratap Autonomous College, Mahatma Gandhi Kashi Vidyapith, Varanasi, with **73.83%** in 2013.
- **XIIth** U. P. Board, Allahabad with **74.40%** in 2010.
- **Xth** U. P. Board, Allahabad with **72.83%** in 2008.

Teaching Experience: - Teaching Differential and Integral Calculus, Algebra, Numerical Analysis, Game Theory, Fuzzy Set Theory, Special Functions etc. since August 2022.

Honour/ Award/ Fellowship: -

- Awarded **CSIR-UGC SENIOR RESEARCH FELLOWSHIP (SRF)** from **May 12, 2019 to Jan 27, 2022.**
- Awarded **CSIR-UGC JUNIOR RESEARCH FELLOWSHIP (JRF)** from **May 12, 2017 to May 11, 2019.**
- Qualified the Joint CSIR-UGC Test for Junior Research Fellowship and Eligibility for Lecturer Ship (NET) held on December 18, 2016 for the award of **JUNIOR RESEARCH FELLOWSHIP (JRF)** and secured **64 rank** in the subject **MATHEMATICAL SCIENCES.**

Book Published: -

Book Chapters: -

1. **Singh S.K.,** Shahi A., Mishra S.K., On Strong Pseudomonotone and Strong Quasimonotone Maps. Springer Proceedings in Mathematics & Statistics, Vol 253, Springer, Singapore, 2018. (Scopus Indexed)
2. **Singh, S. K.,** Joshi, B. C., and Mishra, S. K. On Strong Minty type Variational Inequality and Complementarity Problems over Cones. Recent Advances in Nonlinear Analysis and Optimization with Applications, 95, 2020.

Proforma

Research Paper published in international/ national seminar proceedings: -

1. **Singh, S. K.**, Maurya, J. K. and Mishra, S. K., Sequential Optimality Conditions and Variational Inequalities. Theory of Approximation and Applications, 14(1), 1-25, 2020.
2. Mishra S.K., **Singh S.K.** and Shahi A., On Monotone Maps: Semidifferentiable Case. Advances in Intelligent Systems and Computing, Vol 991. Springer, Cham, 2020. (Scopus Indexed)
3. Lai, K. K., **Singh, S. K.** and Mishra, S. K., Approximate-Karush-Kuhn-Tucker Conditions and Interval Valued Vector Variational Inequalities. WSEAS Transactions on Mathematics, 19, 280-288, 2020. (Scopus Indexed)
4. **Singh S.K.**, Shahi A. and Mishra S.K., Strong Pseudoconvexity and Strong Quasiconvexity of Non-differentiable Functions. Recent Trends in Mathematical Modeling and High Performance Computing. Trends in Mathematics. Birkhauser, 2021. (Scopus Indexed)
5. Hassan, M., **Singh, S.K.** and Mishra, S.K., On Strong Variational Inequalities in Banach Space. Communications on Applied Nonlinear Analysis, 28(2), 13-22, 2021. (Scopus Indexed)
6. Sharma, N., **Singh, S. K.**, Mishra, S. K. and Hamdi, A. Hermite-Hadamard-type Inequalities for Interval-Valued Preinvex Functions via Riemann-Liouville Fractional Integrals. Journal of Inequalities and Applications, 2021, 1-15, 2021. (SCI Indexed, I.F. 2.491)
7. Lai, K. K., Hassan, M., Maurya, J. K., **Singh, S. K.**, and Mishra, S. K. Multiobjective Convex Optimization in Real Banach Space. Symmetry, 13(11), 2148, 2021. (SCI Indexed, I.F. 2.713)
8. Lai, K. K., Hassan, M., **Singh, S. K.**, Maurya, J. K., and Mishra, S. K. Semidefinite Multiobjective Mathematical Programming Problems with Vanishing Constraints using Convexificators. Fractal and Fractional, 6(1), 3, 2022. (SCI Indexed, I.F. 3.313)
9. Lai, K.K., Mishra, S.K., **Singh, S.K.** and Hassan, M.: Stationary Conditions and Characterizations of Solution Sets for Interval-Valued Tightened Nonlinear Problems. Mathematics, 10, 2763, 2022. (SCI Indexed, I.F. 2.592)
10. Mishra, S.K., **Singh S.K.** and Hassan, M.: On Characterizations of Solution Sets of Interval-Valued Quasiconvex Programming Problems. RAIRO-Operations Research, 57, 2585-2600, 2023. (SCI Indexed, I.F. 1.8)

Research supervised at P.G, M.Phil., and Doctorate level: -

01 Doctorate Student (Presently Working)

07 M.Sc. (Mathematics) Students in 2023-24.

National Seminar and Conference Attended: -

- Annual Foundation School-I at Bhaskaracharya Pratisthan Pune during December 04, 2017 to December 30, 2017.
- Hands on Training Programme on C & MATLAB at DST-CIMS, B.H.U., Varanasi during February 10, 2018 to February 17, 2018.
- 33rd Annual National Conference of The Mathematical Society-Banaras Hindu University on Recent Advances in Mathematical Modeling and Analysis at Department of Mathematics, B.H.U., Varanasi during February 16, 2018 to February 17, 2018 (Paper Presented).
- NCM Workshop on New Directions in PDE constrained Optimization at IIT Bombay, Mumbai during March 12, 2018 to March 16, 2018.
- Two Days National Workshop on Vedic Mathematics at C.S.J.M. University, Kanpur during April 24, 2023 to April 25, 2023.
- Participated in 130th Faculty Induction Programme at UGC-HRDC, Panjab University, Chandigarh during September 1, 2023 to September 28, 2023.
- National Seminar on Mathematical Modeling and its Applications at D.A.V. College, Kanpur during March 18, 2024 to March 19, 2024.

Proforma

- One Week Online Faculty Development Program on “Enhancing Teaching Excellence: A Comprehensive Course on Modern Pedagogical Practices” at IQAC, V.S.S.D. College, Kanpur during June 06, 2024 to June 12, 2024.
- Five Days National Workshop on Maple with Hands on Sessions at C.S.J.M. University, Kanpur during July 30, 2024 to August 03, 2024.
- Instructional Workshop on Applications of Mathematics and Logics in Computer Science at Allenhouse Institute of Technology, Rooma, Kanpur during August 27, 2024 to August 31, 2024.

International Seminar and Conferences Attended: -

- International Workshop on Convex Analysis and Optimization (IWCAO-2017) held at Department of Mathematics, Aligarh Muslim University, Aligarh during November 14, 2017 to November 19, 2017.
- International Conference on Modern Mathematical Methods and High Performance Computing in Science & Technology (M3HPCST-2020) at Inderprastha Engineering College, Ghaziabad during January 09, 2020 to January 11, 2020 (Paper Presented).
- International Conference Mathematical Optimization Theory and Operations Research (MOTOR-2020) in Novosibirsk, Russia during July 06, 2020 to July 10, 2020 (Paper Presented).
- Winterschool on Analysis and Applied Mathematics, WWU Munster, Germany during February 22, 2021 to February 26, 2021 (Poster Presented).
- International Workshop on Theory and Applications of Optimization in Machine Learning at VIT-AP University during April 04, 2025 to April 08, 2025.

Administrative experience and member in academic bodies: - Member of the Admission committee for B.A. first semester, Member of the Admission committee for M.A./M.Sc. (Mathematics) first semester, Special Invited member of IQAC for NAAC, Member of Cultural Committee, Assistant Superintendent for Annual/Semester Exams for CSJMU.

Research Id's: - ResearchGate Id- <https://www.researchgate.net/profile/Sanjeev-Singh-31>

Google Scholar Id- https://scholar.google.com/citations?hl=en&user=D_hN_tsAAAAJ

Other Activities: -

- Presented a poster at the event of International Day for the Preservation of the Ozone Layer, 16 September, 2007, at School level in Class IX.
- Team member of Silver medallion in 4x400 meters Relay Race in Faculty of Science, BHU, Games 2014.
- Runner up in Dalmia Hostel, BHU Intra-hostel Chess Games, 2014.
- Participated in National Innovation Day 2019 at BHU in Slogan/Essay writing/Idea Competition