

Curriculum Vitae

- ❖ **Name:** Dr. Suvra Kanti Chakraborty
- ❖ **Present Affiliation:** Assistant Professor of Mathematics, Ramakrishna Mission Vidyamandira, Belur Math, Howrah, 711202. (Joined the institute on Feb 9, 2021)
- ❖ **Email:** suvra.maths@gmail.com
- ❖ **Website:** <https://sites.google.com/site/suvramaths>
- ❖ **Highest Qualification:** Ph. D. from the department of Mathematics, Indian Institute of Technology, Kharagpur. (Year of Award: 2019)
- ❖ **Previous Teaching Experience:** Assistant Professor of Mathematics, Sir Gurudas Mahavidyalaya, Kolkata, 700067. (April 1, 2017 - Feb 8, 2021)
- ❖ **Research Interests:** Optimization Theory, Numerical Optimization.
- ❖ **Publications in International Journals/Book Chapters:**
 1. *A q -Polak-Ribiere-Polyak conjugate gradient algorithm for unconstrained optimization problems* by S. K. Mishra, S. K. Chakraborty, S. Samei, B. Ram, Journal of Inequalities and Applications, In Press (Available online, Jan 2021).
 2. *Modified Projected Newton Scheme for Non-convex Function with Simple Constraints* by S. K. Chakraborty, and G. Panda, Yugoslav Journal of Operations Research, In Press (Accepted, Jan 2021).
 3. *On q -BFGS algorithm for unconstrained optimization problems* by S. K. Mishra, G. Panda, S. K. Chakraborty, S. Samei, B. Ram, Advances in Difference Equations, In Press (Available online, Nov 2020).
 4. *Mathematical Modelling of Streamwise Velocity Profile in Open Channels Using Tsallis Entropy* by M. Kumbhakar, R. K. Ray, S. K. Chakraborty, K. Ghoshal, V. P. Singh, Communications in Nonlinear Science and Numerical Simulation, In Press (Available online, Oct 2020).
 5. *A Limited Memory q -BFGS Algorithm for Unconstrained Optimization Problems* by K. K. Lai, S. K. Mishra, G. Panda, S. K. Chakraborty, S. Samei, B. Ram, Journal of Applied Mathematics and Computing, Springer, In Press (Available online, Sep 2020).
 6. *A Modified Coordinate Search Method Based on Axes Rotation* by S. K. Chakraborty and G. Panda, Mathematical Analysis and Application in Modeling, Springer Proceedings in Mathematics & Statistics, 2020.
 7. *Two Phase Quasi-Newton Method for Unconstrained Optimization Problem* by S. K. Chakraborty and G. Panda, Afrika Matematika, March 2019.
 8. *Descent Line Search Scheme using Gersgorin Circle Theorem* by S. K. Chakraborty and G. Panda, Operations Research Letters. 45(6), 2017.
 9. *Newton Like Line Search Method Using q -Calculus* by S. K. Chakraborty and G. Panda, Mathematics and Computing. ICMC 2017. Communications in Computer and Information Science, Vol 655 (2017) Springer, Singapore.
 10. *Two-Phase-SQP Method with Higher-Order Convergence Property* by S. K. Chakraborty and G.

- Panda, The Journal Of Operations Research Society of China, Vol. 4 (2016), No.3, pp. 385-396.
11. *Golden Section Optimal Search: A direct search method* by S. K. Chakraborty and G. Panda, International Journal of Mathematics in Operational Research, Vol. 8 (2016), No. 3, pp. 272-292.
 12. *A Higher Order Iterative Algorithm for Multivariate Optimization Problem* by S. K. Chakraborty and G. Panda, J. Appl. Math. and Informatics, Vol. 32 (2014), No. 5 - 6, pp. 747 - 760.

❖ **Memberships and Review Activities:**

1. Programme Committee Member (PC member) and Reviewer of the 7th International Conference on Mathematics and Computing (ICMC 2021).
2. Life member of Indian Mathematical Society.
3. Affiliate member of American Mathematical Society.
4. Reviewer of Math Reviews (MathSciNet database) of American Mathematical Society. (Total reviews done- 10)
5. Reviewer of zbMath. (Total reviews done- 13)
6. Reviewer of the Journals: Journal of Applied Mathematics and Computing, African journal of Mathematics and Computer Science Research, Mathematics Letters.
7. Sub-reviewer of IEEE conference ICCCCM-2016, Allahabad.

❖ **Awards and Achievements:**

1. Received the *Prof. J.C. Bose Memorial Gold Medal* from IIT Kharagpur. (2013)
2. Received *Prabodh Chandra Sanyal Award* from IIT Kharagpur. (2013)
3. Received *Institute Proficiency Prize* (Proficiency in Project Work Prize) from IIT Kharagpur. (2013)
4. Receiver of *INSPIRE scholarship* (given by Central Government of India). (2008 - 2012)
5. Qualified JAM examination in Mathematics with All India Rank 30. (2011)
6. Qualified Joint CSIR-UGC test for J.R.F and Eligibility for Lectureship (NET) in Mathematical Science with Rank 79 (U.G.C). (Dec, 2012)
7. Qualified Joint CSIR-UGC test for J.R.F and Eligibility for Lectureship (NET) in Mathematical Science with Rank 32 (C. S. I. R). (June, 2013)
8. Qualified GATE examination in Mathematics with All India Rank 10. (2013)
9. Qualified State Eligibility Test (SET-2014) for Assistant Professorship in Mathematics. (Dec, 2014)

❖ **Other Activities:**

1. Convened a One-day Webinar with title "Recent Trends on COVID-19: Mathematical Modeling and Their Social Impacts". (June 30, 2020)
2. Convened a Web Meet on "Algebra and Partial Differential Equations: Applications and Research Motivation". (July 17, 2020)
3. Delivered invited talk on Dihedral Groups (Mar 13, 2018) and on a treatise of Mathemagic (Feb 4, 2020) at Sreegopal Banerjee College, Magra.