

CURRICULUM VITAE

Dr. Sankar Prasad Mondal
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2. Address for Communication:

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3. **Email:** sankar.mondal02@gmail.com (for any type of information)

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4. **Phone:** +91-9635578078.

5. Information from Different Sources:

5.1. **Research Gate:** https://www.researchgate.net/profile/Sankar_Mondal4

5.2. **Google Scholar:** <https://scholar.google.co.in/citations?user=J0R-EjYAAAAJ&hl=en>

5.3. **Scopus author search:**

<https://www.scopus.com/authid/detail.uri?authorId=57004332200>

5.4. **Institute Website:** <http://www.midnaporecollege.ac.in/Math.aspx>

8. Education Qualification:

8.1. Ph.D from Indian Institute of Engineering Science and Technoloy, Shibpur, India in 2014

8.2. M.Sc from Bengal Engineering and Science University, Shibpur, India in 2010

9. Details of research work:

- a. Major area/field : Differential Equation and Fuzzy Sets theory
- b. Area of research : Differential Equation, Fuzzy Sets, Multi Criterion Decision Making, Linear Algebra
- c. Title of Thesis: First and Second Order differential Equation with application in Imprecise Environments.

10. Publication Details:

10.1 Publication as Journal Paper

2017

1. **Sankar Prasad Mondal**, Interval Valued Intuitionistic Fuzzy Number and its Application in Differential equation, Journal of Intelligent & Fuzzy Systems (SCIE), In Press.
2. B.Sen, U.K.Mandal, **S.P.Mondal**, Advancement of an intelligent system based on ANFIS for predicting machining performance parameters of Inconel 690 - A perspective of metaheuristic approach, Measurement (SCIE), Volume 109, October 2017, pp. 9–17.
3. S.Paul, D.Jana, **S.P.Mondal** and P.Bhattacharya, Optimal harvesting of two species mutualism model with interval parameters, Journal of Intelligent & Fuzzy Systems (SCIE), In Press.
4. **S.P.Mondal** and T.K. Roy, Solution of First Order System of Differential Equation in Fuzzy Environment and its Application, International Journal of Fuzzy Computation and Modelling, In Press.
5. **S.P.Mondal**, M.Mandal, A.Mahata and T.K.Roy, Integral Equation with Pentagonal Intuitionistic Fuzzy Number, Notes on Intuitionistic Fuzzy Sets, In Press.

2016

1. S.Paul, **S.P.Mondal**, P. bhattacharya, Numerical solution of Lotka Volterra Prey Predator model by using Runge-Kutta-Fehlberg method and Laplace Adomian decomposition method, Alexandria Engineering Journal, Volume 55, Issue 1, March 2016, Pages 613-617.
2. **S.P.Mondal**, D. Vishwarkama, A.K.Saha, Solution of Fuzzy Difference Equation Based by Lagrange Multiplier Method, Journal of Soft Computing and Applications, Volume 2016, No. 1 (2016), Pages 11-27.
3. **S.P.Mondal**, S. Roy, B.Das, Numerical Solution of First Order Linear Differential Equations in Fuzzy Environment by Runge-Kutta-Fehlberg Method and its Application, Journal of Differential Equations, Volume 2016 (2016). pp. 1-14.
4. S.Paul, **S.P.Mondal**, P. bhattacharya, Discussion on Fuzzy Quota Harvesting Model in Fuzzy Environment: Fuzzy Differential Equation Approach, Model. Earth Syst. Environ. (2016) 2: 70.
5. **Sankar Prasad Mondal**, Differential equation with interval valued fuzzy number and its applications, Int J Syst Assur Eng Manag (2016) 7: 370.

2015

1. **S.P.Mondal** and T.K.Roy, System of differential equation with initial value as intuitionistic triangular fuzzy number and its application , Int. J. Appl. Comput. Math (2015) 1: 449 .
2. **S.P.Mondal and T.K.Roy**, Generalized Intuitionistic fuzzy Laplace transform and its application in Electrical circuit , TWMS journal of Applied and Engineering Mathematics, Vol.5, No. 1, 2015, 30-45.
3. **S.P.Mondal** and T.K.Roy, Second order Fuzzy boundary value problem with boundary value as Intuitionistic fuzzy number, Journal of Linear Topological Algebra, Vol. 04, No. 02, 2015, 115- 129.
4. **S.P.Mondal**, S.Paul, A.Mahata, P. Bhattacharya, T.K.Roy, Classical Modelling of HIV Virus Infected Population in Imprecise Environments, Turkish Journal of Fuzzy Sets and System, Vol.6, No.1, pp. 017-055, 2015 .
5. **S.P.Mondal** and T.K.Roy, Second order linear differential equation in fuzzy environment and its Application, Annals of Fuzzy Mathematics (Accepted-In press).
6. **S.P.Mondal** and T.K.Roy, First Order Linear Non Homogeneous Fuzzy Ordinary Differential Equation with initial value as triangular intuitionistic fuzzy number, Journal of Uncertain System, Vol.9, No.4, pp.274-285, 2015.

2014

1. **S.P.Mondal** and T.K.Roy, First Order Linear Homogeneous Fuzzy Ordinary Differential Equation with initial value as triangular intuitionistic fuzzy number, Journal of Uncertainty in Mathematics Science 2014 (2014) 1-17.
2. **S.P.Mondal** and T.K.Roy, First Order Linear Non-Homogeneous Fuzzy Ordinary Differential Equation Based on Lagrange Multiplier Method, Journal of Uncertainty in Mathematics Science 2014 (2014) 1-18.
3. **S.P.Mondal** and T.K.Roy, Non linear arithmetic operation on generalized triangular intuitionistic fuzzy numbers, NIFS, Volume 20, 2014, Number 1, pages 9-19.

2013

1. **S.P.Mondal**, S. Bannerjee, T.K.Roy, First Order Linear Homogeneous Ordinary Differential Equation in Fuzzy Environment, Int. J. Pure Appl. Sci. Technol., 14 (1) (2013) 16-26.
2. **S.P.Mondal** and T.K.Roy, First Order Linear Non Homogeneous Ordinary Differential Equation in Fuzzy Environment, Mathematical theory and Modeling, Vol.3, No.1, 2013, 85-95.
3. **S.P.Mondal** and T.K.Roy, First Order Linear Homogeneous Ordinary Differential Equation in Fuzzy Environment Based On Laplace Transform, Journal of Fuzzy Set Valued Analysis, 2013 (2013) 1-18.
4. **S.P.Mondal** and T.K.Roy, First Order Linear Homogeneous Fuzzy Ordinary Differential Equation Based on Lagrange Multiplier Method, Journal of Soft Computing and Applications, 2013 (2013) 1-17.
5. **S.P.Mondal** and T.K.Roy, First Order Linear Non Homogeneous Ordinary Differential Equation in Fuzzy Environment Based On Laplace Transform, J. Math. Comput. Sci. 3 (2013), No. 6, 1533-1564.
6. **S.P.Mondal** and T.K.Roy, Application of First order Non Homogeneous Fuzzy Differential Equation, Advances in Fuzzy Sets and Systems, 2013, Pushpa Publishing House, Volume 16, No. 1, 1-29.

10.2 Publication as Books Chapter

1. B.Sen, U.K.Mandan, **S.P.Mondal**, Handbook of Research on Modeling, Analysis, and Application of Nature-Inspired Metaheuristic Algorithms, Chapter 6, In Press.
2. S.A.I. Hossain, **S.P.Mondal**, U.K.Mandal, Handbook of Research on Modeling, Analysis, and Application of Nature-Inspired Metaheuristic Algorithms, Chapter 15, In Press.
3. **Sankar Prasad Mondal**, Interval Neutrosophic Sets, Springer Book Series (Accepted).
4. **Sankar Prasad Mondal**, Single and Multi-Valued Neutrosophic Sets, Springer Book Series (Accepted).
5. **Sankar Prasad Mondal**, Non-Linear Triangular Intuitionistic Fuzzy number and It's Application in Partial Differential Equation, Emerging Research on Applied Fuzzy Sets and Intuitionistic Fuzzy Matrices in IGI Global, Chapter 9, pp. 215-234.
6. **Sankar Prasad Mondal**, A Basic Inventory Model in Fuzzy and Interval Environments Fuzzy and Interval Differential Equation Approach, Fuzzy and Rough Set Theory in Organizational Decision Making in IGI Global, Chapter 4, pp. 65-95.
7. **S.P.Mondal**, D. Biswakarma, AK.Saha, Intuitionistic fuzzy difference equation: Intuitionistic fuzzy difference equation, Emerging Research on Applied Fuzzy Sets and Intuitionistic Fuzzy Matrices in IGI Global, Chapter 5, pp. 112-131.
8. **Sankar Prasad Mondal**, Solution of some Differential Equation in Fuzzy Environment by Extension Principle method and its application in Biomathematics, Handbook of Research on Computational Intelligence Applications in Bioinformatics in IGI Global, Chapter 17, pp. 413-440.

10.3 Publication as Conference Paper

1. S.Paul, **S.P.Mondal**, P. bhattacharya, Application of Adomian decomposition method in biological and epidemic model, International conference on mathematical sciences for advancement of science and technology 2014.

10.4 Publication as Book

1. Dr. Susmita Roy and **Dr. Sankar Prasad Mondal**, An Introduction on Fuzzy Sets Theory and its Application (In Press)
2. **Dr. Sankar Prasad Mondal** and Dr. Bappa Das, An Introduction on Mathematical Transform and its Application (In Press)
3. Dr. Uttam Ghosh and **Dr. Sankar Prasad Mondal**, A Brief Introduction on Partial Differential Equation (In Press)

11. Conference/ Workshop attended:

1. Presented a paper at the “International Conference on Mathematical Sciences for Advancement of Science and Technology” organized by Institute for Mathematics, Bioinformatics, Information Technology and Computer Science (IMBIC), during December 21-23, 2012.
2. Attended the “National Seminar on recent trends in mathematics” organized by Department of Mathematics, Kalyani University, Kalyani, India, March 8-9, 2013.
3. Presented a paper at the “International Conference on Mathematical Sciences for Advancement of Science and Technology” organized by Institute for Mathematics, Bioinformatics, Information Technology and Computer Science (IMBIC), during December 21-23, 2014.
4. Presented a paper at the “Revisiting Ancient Mathematics and Mathematical Sciences” organized by Department of Mathematics, Burdwan University, during February 18-20, 2015.

12. Reviewers of Journals:

1. Soft Computing
2. Iranian Journal of Fuzzy System
3. Complexity
4. International Journal of Biomathematics
5. International Journal of Fuzzy System
6. International Journal of Industrial Mathematics.
7. Journal of Linear Topological Algebra
8. International Journal of Applied and Computational Mathematics
9. Far East Journal of Applied Mathematics
10. World Journal of Modeling and Simulation
11. Annals of Fuzzy Mathematics and Informatics

13. Experiences:

Contribution on Teaching:

Employer	Position held	Date of Joining	Date of Leaving
National Institute Of Technology, Agartala	Teaching Assistant	22.07.2014 (After submitting Ph.D Thesis)	07.07.2015

National Institute Of Technology, Agartala	Assistant Professor	08.07.2015	20.03.2017
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Administrative Experience:

Worked as an Assistant Warden of the Gomati Hostel, National Institute of Technology, Agartala from 21.08.2016 to 19.03.2017

14. Collaborator

1. Dr. Uttam Kumar Mandal, Production Engineering Department, NIT Agartala
2. Dr. Apu Kumar Saha, Mathematics Department, NIT Agartala
3. Dr. Paritosh Bhattacharya, Mathematics Department, NIT Agartala
4. Dr. Susmita Roy, Mathematics Department, NIT Agartala
5. Dr. Susmita Paul, Tripura University, Mathematics Department, India
6. Dr. Debaldev Jana, SRM University, Mathematics Department, India
7. Dr. Soheil Salahshour, Mathematics Department, Mobarakeh Branch Islamic Azad University Mobarakeh, Iran
8. Dr. Ali Ahmadian, Institute for Mathematical Research Universiti Putra Malaysia, UPM Serdang Malaysia
9. Dr. Tapan Kumar Roy, Mathematics Department, IEST, Shibpur
10. Dr. Uttam Ghosh, Mathematics Department, Calcutta University
11. Dr. Banamali Roy, Bangabasi Evening College, Mathematics Department, Calcutta
12. Mr. Animesh Mahata, Swami Vibekanda Group of Institution, Mathematics Department, Kolkata