

CURRICULUM VITAE



Name: Dr. Hiranmoy Mondal
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India
Permanent Address: Rajlaxmi Abasan, Flat no. 2(F), Bolpur,
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Educational Qualifications (Remarks could include CGPA, Rank, Best Thesis.etc.)

Degree/Diploma	Institution	Year	Specialization
Ph.D (Mathematics)	Visva-Bharati University (A Central University)	2012	Fluid Dynamics, Numerical Methods
M.Sc (Mathematics and Computing)	Indian Institute of Technology (ISM)- Dhanbad,	2004	Numerical Methods

Title of the Thesis: Some Aspects of Heat and Mass Transfer in Viscous Fluid over a Moving Surface in Porous Media

Thesis Supervisor: Prof. Dulal Pal, Professor in Mathematics, Visva-Bharati University, Santiniketan, West Bengal, India

Awards:

- “Best Teacher Award” from respected Director sir Prof. (Dr.) C.T. Bhunia, Bengal Institute of Technolgy and Management, Santiniketan for the year 2008-2009.
- “Best Research paper Publication” from respected Director sir Prof. (Dr.) C.T. Bhunia, Bengal Institute of Technolgy and Management, Santiniketan for the year 2008-2009.
- University Post-doctoral fellowship in the University of KwaZulu-Natal, South Africa from January 2016 to December 2016.
- Claude Leon foundation postdoctoral fellowship 2017-2018, from 25A Frogal, Hampstead, London, UK. Host University of KwaZulu Natal.

International Visit:

- a. Presented paper on 59th Annual congress of the South African Mathematical Society University of the Western Cape, **University of Cape-Town**, 2 - 4 November 2016.
- b. Presented paper on 60th Annual of the South African Mathematics Society will take place at the Potchefstroom campus of **North-West University**, during 20-22, November 2017.
- c. Presented paper on 9th *International Conference on Computational Methods* (ICCM2018) at the Auditorium Antonianum, Rome, Italy, between August 6th and 10th, 2018. **University of Rome**

Experience: (Remarks can include info on teaching experience, student guidance, etc.)

Position	Institution	Period	Remarks
Lecturer	Bengal Institute of Technology & Management, (West Bengal University of Technology)	2005-2008	Teaching at undergraduate and postgraduate student
Senior Lecturer	Bengal Institute of Technology & Management, (West Bengal University of Technology)	2008-2010	Teaching and research
Assistant Professor and Head of the Department	Bengal Institute of Technology & Management, (West Bengal University of Technology)	2010-2015	Teaching at undergraduate and postgraduate student. Also supervised one Ph.D student
University Postdoctoral Research Fellow	University of KwaZulu Natal, South Africa	2016-2017	University Fellowship
Claude Leon Foundation Postdoctoral Research Fellow	University of KwaZulu Natal, South Africa	2017-2018	Hampstead, London, UK

Ph.D Student supervised:

Sl. No.	Title	Student Name	Year	Institute	Remarks
1.	Some aspects on numerical solutions of heat and mass transfer problems in nanofluids	Poulomi De (Regular) Ph.D registration 2012	Ph.D awarded on 28 th May, 2016	National Institute of Technology, Agartala, India	As a joint supervision

Ongoing Ph.D Student:

Sl. No.	Title of the thesis	Name of the Scholar	Area of Ph. D work	Institute	Remarks
1.	Heat and Mass Transfer Characteristics of Non-Newtonian Fluids	Apurba Das	Non-Newtonian Fluids	IIT (ISM) Dhanbad Registration on July, 2017	Co-guide
2.	Studies on multi-domain spectral quasi-linearization method for nonlinear problem	Samah Anwer Ahmed Ali	Computation Fluid Dynamics	University of KwaZulu Natal, South Africa Registration on November, 2018	Co-supervisor

3.	A numerical study on non-Newtonian Carreau nanofluid	Munyara dzi Rudziva	Computation Fluid Dynamics	University of KwaZulu Natal, South Africa Registration on November, 2018	Co-supervisor
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B.Tech Student projects Supervised:

Title of the dissertation	Student name	Year	Institute	Remarks
Studies on heat and mass transfer in MHD flow over a non-isothermal stretching sheet	Md. Azharuddin, Monirul Islam Khan Praveen Kumar, Amit Kumar	(Mechanical Engineering) 2009-2013	Bengal Institute of Technology and Management, Santiniketan (West Bengal University of Technology)	Supervisor

M.Tech Student project Supervised:

Title of the dissertation	Student name	Year	Institute	Remarks
Cryptanalysis and enhancement of a biometrics-based remote user authentication scheme using smart-card	Kiran Sankar Das Roll No.:- 16313611001 Registration No.:- 111630410001 of 2011-2012	M. TECH (CSE) 2011-2012	Bengal Institute of Technology and Management, Santiniketan	Supervisor

Publications.:

1. Dulal Pal and **Hiranmoy Mondal**, Radiation effects on combined convection over a vertical flat plate embedded in a porous medium of variable porosity. *Meccanica (Springer)* 44 (2009) 133-144. SCI, Scopus, **Impact Factor 2.211.**

2. Dulal Pal and **Hiranmoy Mondal**, Influence of Temperature-dependent viscosity and thermal radiation on MHD forced convection over a non-isothermal wedge. *Applied Mathematics and Computation (Elsevier)* 212 (2009) 194-208. SCI, Scopus, **Impact Factor 2.300**

3. Dulal Pal and **Hiranmoy Mondal**, Effect of variable viscosity on MHD non-Darcy mixed convective heat transfer over a stretching sheet embedded in a porous medium with non-uniform heat source/sink. *Communications in Nonlinear Science and Numerical Simulation* (Elsevier) 15 (2010) 1553-1564. ISI Science Citation Index, Scopus, **Impact Factor 3.181**.

4. Dulal Pal and **Hiranmoy Mondal**, Hydromagnetic non-Darcy flow and heat transfer over a stretching sheet in the presence of thermal radiation and Ohmic dissipation. *Communications in Nonlinear Science and Numerical Simulation* (Elsevier) 15 (2010) 1197–1209. ISI Science Citation Index, Scopus, **Impact Factor 3.181**.

5. Dulal Pal and **Hiranmoy Mondal**, The influence of thermal radiation on hydromagnetic Darcy-Forchheimer mixed convection flow past a stretching sheet embedded in porous medium. *Meccanica* (Springer) 46 (2011) 739–753. SCI, Scopus, **Impact Factor 2.211**.

6. Dulal Pal and **Hiranmoy Mondal**, Effects of Soret Dufour, chemical reaction and thermal radiation on MHD non-Darcy unsteady mixed convective heat and mass transfer over a stretching sheet. *Communications in Nonlinear Science and Numerical Simulation* (Elsevier Journal) 16 (2011) 1942-1958. ISI Science Citation Index, Scopus, **Impact Factor 3.181**.

7. Dulal Pal and **Hiranmoy Mondal**, MHD non-Darcian mixed convection heat and mass transfer over a non-linear stretching sheet with Soret-Dufour effects and chemical reaction. *International Communications in Heat and Mass Transfer* (Elsevier) 38 (2011) 463–467. Scopus, **Impact Factor 4.463**.

8. Dulal Pal and **Hiranmoy Mondal**, Soret and Dufour effects on MHD non-Darcian mixed convection heat and mass transfer over a stretching sheet with non-uniform heat source/sink. *Physica B* (Elsevier) 407 (2012) 642– 651. Scopus, **Impact Factor 1.453**.

9. Dulal Pal and **Hiranmoy Mondal**, Influence of chemical reaction and thermal radiation on mixed convection heat and mass transfer over a stretching sheet in Darcian porous medium with Soret and Dufour effects. *Energy Conversion & Management* (Elsevier) 62 (2012) 102–108. SCIE, Scopus, **Impact Factor 6.377**

10. Dulal Pal and **Hiranmoy Mondal**, Hydromagnetic convective diffusion of species in Darcy-Forchheimer porous medium with non-uniform heat source/sink. *International Communications in Heat and Mass Transfer* (Elsevier) 39 (2012) 913–917. Scopus, **Impact Factor 4.463**.

11. Dulal Pal and **Hiranmoy Mondal**, Non-Darcian Buoyancy Driven Heat and Mass Transfer over a Stretching Sheet in a Porous Medium with Radiation and Ohmic Heating. *International Journal of Nonlinear Sciences* 14 (1) (2012) 115-123.

12. Dulal Pal and **Hiranmoy Mondal**, MHD non-Darcy mixed convective diffusion of species over a stretching sheet embedded in a porous medium with non-uniform heat source/sink, variable viscosity and Soret effects. *Communications in Nonlinear Science and Numerical Simulation* (Elsevier) 17 (2012) 672–684. ISI Science Citation Index, Scopus, **Impact Factor 3.181**.
13. Dulal Pal and **Hiranmoy Mondal**, Influence of Soret and Dufour on MHD buoyancy- driven heat and mass transfer over a stretching sheet in porous media with temperature- dependent viscosity. *Nuclear Engineering and Design* (Elsevier) 256 (2013) 350– 357. SCIE, Scopus, **Impact Factor 1.190**
14. Dulal Pal and **Hiranmoy Mondal**, Influence of thermophoresis and Soret-Dufour on magnetohydrodynamic heat and mass transfer over a non-Isothermal wedge with thermal radiation and Ohmic dissipation. *Journal of Magnetism and Magnetic Materials*, (Elsevier) 331 (2013) 250–255. Scopus, **Impact Factor 3.046**.
15. Dulal Pal and **Hiranmoy Mondal**, Effects of temperature-dependent viscosity and variable thermal conductivity on MHD non-Darcy mixed convective diffusion of species over a stretching sheet. *Journal of the Egyptian Mathematical Society* (Elsevier) 22 (2014), 123–133.
16. Dulal Pal and **Hiranmoy Mondal**, Soret-Dufour effects on hydromagnetic non-Darcy convective-radiative heat and mass transfer over a stretching sheet in porous medium with viscous dissipation and Ohmic heating. *Journal of Applied Fluid Mechanics*, 7(3) (2014) 513-523. ISI, SCIE, **Impact Factor 1.09**.
17. Poulomi De, **Hiranmoy Mondal**, Uttam Kumar Bera, Influence of Nanofluids on Magnetohydrodynamic Heat and Mass Transfer Over a Non-Isothermal Wedge with Variable Viscosity and Thermal Radiation. *Journal of Nanofluids* (American Scientific Publishers) 3(4), (2014) 391-398. Scopus, Thomson Reuters.
18. Dulal Pal and **Hiranmoy Mondal**, Influence of Variable Viscosity on Hydromagnetic Non-Darcy Convective-Radiative Heat Transfer over a Stretching Sheet with Non-Uniform Heat Source/Sink. *International Journal for Computational Methods in Engineering Science & Mechanics*, (Taylor & Francis) (2014) 1–9.
19. Pranab K Roy, **Hiranmoy Mondal**, Ashis Mallick, A Decomposition Method for Convective-Radiative Fin With Heat Generation. *Ain Shams Engineering Journal*, (Elsevier) 6(2015), 307–313. Scopus.
20. Pranab K Roy, **Hiranmoy Mondal**, Ashis Mallick, Application of homotopy perturbation method for a conductive-radiative fin with temperature dependent thermal conductivity and surface emissivity. *Ain Shams Engineering Journal*, (Elsevier) 6 (2015), 1001–1008 Scopus.
21. Poulomi De, **Hiranmoy Mondal**, and Uttam kumar Bera, Heat and Mass Transfer in a Hydromagnetic Nanofluid Past a Non-Linear Stretching Surface with Thermal Radiation. *Journal of Nanofluids*, 4(2) (2015) 230-238 Scopus.
22. **Hiranmoy Mondal**, Shweta Mishra, and Uttam Kumar Bera, Nanofluids on MHD Mixed Convective Heat and Mass Transfer Over a Non-Linear Stretching

Surface with Suction/Injection. *Journal of Nanofluids*, 4(2) (2015) 223-229 Scopus.

23. Poulomi De, **Hiranmoy Mondal**, and Uttam kumar Bera, Effects of Mixed Convective Flow of a Nanofluid with Internal Heat Generation, Thermal Radiation and Chemical Reaction. *Journal of Nanofluids* 4(3) (2015) 375-384. Scopus.

24. Poulomi De, **Hiranmoy Mondal**, and Uttam kumar Bera, Dual solutions of heat and mass transfer of nanofluid over a stretching/shrinking sheet with thermal radiation. *Meccanica (Springer)* 51(1) (2016) 117-124. SCI, Scopus, **Impact Factor 2.211**

25. Shweta Mishra, Dulal Pal, **Hiranmoy Mondal**, Precious Sibanda, On radiative-magnetoconvective heat and mass transfer of a nanofluid past a non-linear stretching surface with Ohmic heating and convective surface boundary. *Propulsion and Power Research (Elsevier)* 5(4) (2016) 326–337.

26. Poulomi De, Dulal Pal, **Hiranmoy Mondal**, and Uttam Kumar Bera, Effect of Thermophoresis and Brownian Motion on Magnetohydrodynamic Convective-Radiative Heat and Mass Transfer of a Nanofluid Over a Nonlinear Stretching Sheet. *Journal of Nanofluids* 6(2017) 164–172. Scopus.

27. **Hiranmoy Mondal**, Poulomi De, Sewli Chatterjee, Precious Sibanda, and Pranab Kanti Roy, MHD Three-Dimensional Nanofluid Flow on a Vertical Stretching Surface with Heat Generation/Absorption and Thermal Radiation. *Journal of Nanofluids* 6 (2017) 189–195. Scopus

28. **Hiranmoy Mondal**, Dulal Pal , Sewli Chatterjee, Precious Sibanda, Thermophoresis and Soret-Dufour on MHD mixed convection mass transfer over an inclined plate with non-uniform heat source/sink and chemical reaction, *Ain Shams Engineering Journal*, Doi: 10.1016/j.asej.2016.10.015. Scopus.

29. Pranab K Roy, Ashis Mallick, **Hiranmoy Mondal**, Sicelo Goqo, Precious Sibanda, Numerical study on rectangular-convex-triangular profiles with all variable thermal properties. *International Journal of Mechanical Sciences*, (Elsevier) 133 (2017) 251–259. SCI, Scopus, **Impact Factor 3.570**

30. Pranab K Roy, Ashis Mallick, **Hiranmoy Mondal**, Precious Sibanda, A modified decomposition solution of triangular moving fin with multiple variable thermal properties, *Arabian Journal for Science and Engineering*, 43(3), (2018) 1485–1497, Scopus, SCIE, **Impact Factor 1.092**

31. Mlamuli Dhlamini, **Hiranmoy Mondal**, Precious Sibanda, Sandile Motsa, Spectral Quasi-Linearization Methods for Powell-Eyring MHD Flow Over a Nonlinear Stretching Surface. *J. Nanofluids* 7, 917–927 (2018) Scopus.

32. Dulal Pal, **Hiranmoy Mondal**, Influence of Soret-Dufour and thermophoresis on hydromagnetic mixed convection heat and mass transfer over an inclined flat

plate with non-uniform heat source/sink and chemical reaction. *International Journal for Computational Methods in Engineering Science & Mechanics*, 19(2), (2018) 49-60. Scopus

33. M. Almakki, **H. Mondal**, P.Sibanda, N. Haroun, Entropy generation in MHD flow of viscoelastic nanofluids with homogeneous-heterogeneous reaction, partial slip and nonlinear thermal radiation. *Journal of Thermal Engineering*, (Accepted on 4-2-18). Scopus.

34. S. Mishra, **H. Mondal**, P.K.Kundu, P. Sibanda, Unsteady MHD micropolar fluid in a stretching sheet over an inclined plate with the effect of non-linear thermal radiation and sores-dufour. *Journal of Thermal Engineering*, (Accepted on 25-1-18) Scopus.

35. Hloniphile Sithole, **Hiranmoy Mondal**, Precious Sibanda, Entropy generation in a second grade magnetohydrodynamic nanofluid flow over a convectively heated stretching sheet with nonlinear thermal radiation and viscous dissipation. *Results in Physics* 9 (2018) 1077–1085, Scopus, SCI, **Impact Factor 2.147**.

36. Mlamuli Dhlamini, Peri K. Kameswaran, Precious Sibanda, Sandile Motsa **Hiranmoy Mondal**, Activation energy and binary chemical reaction effects in mixed convective nanofluid flow with convective boundary conditions. *Journal of Computational Design and Engineering* (Accepted on 4th July, 2018). doi: <https://doi.org/10.1016/j.jcde.2018.07.002> Scopus.

37. Hloniphile Sithole, **Hiranmoy Mondal**, Sicelo Goqo, Precious Sibanda, Sandile Motsa, Numerical simulation of couple stress nanofluid flow in magnetoporous medium with thermal radiation and a chemical reaction. *Applied Mathematics and Computation* 339 (2018) 820–836 . Scopus, SCI, **Impact Factor 2.300**.

38. Subrata Das, **Hiranmoy Mondal**, Prabir Kumar Kundu, Precious Sibanda, Spectral quasilinearization method for Casson fluid with homogeneous-heterogeneous reaction in presence of nonlinear thermal radiation over an exponential stretching sheet. Accepted 10th August, doi: 10.1108/MMMS-04-2018-0073. Scopus.

39. Hammed Abiodun Ogunseye, Precious Sibanda, Hiranmoy Mondal, On MHD mixed convective stagnation point flow of an Eyring-Powell nanofluid over a stretching cylinder with thermal slip conditions. *Journal of Central South University*, Scopus, (SCIE) Impact Factor 0.761 (Accepted on 19-10-2018).

40. Sicelo P. Goqo, Shina Daniel Oloniju, Hiranmoy Mondal, Precious Sibanda, Sandile S. Motsa, Entropy generation on MHD radiative viscous nanofluid flow over a porous wedge using bivariate spectral quasi-linearization method. *Case Studies in Thermal Engineering* 12 (2018) 774–788

41. Hiranmoy Mondal, Precious Sibanda, Spectral quasi-linearization method for entropy generation using the Cattaneo-Christov heat flux model, *International Journal of Computational Methods*. (World scientific, Accepted on 6-12-18)

42. Hloniphile Sithole, Hiranmoy Mondal, Vusi Mpendulo Magagul, Precious Sibanda, S Motsa, Bivariate spectral local linearisation method (BSLLM) for unsteady MHD micropolar-nanofluids with homogeneous-heterogeneous chemical reactions over a stretching surface. *International Journal of Applied and Computational Mathematics* (springer) doi: 10.1007/s40819-018-0593-8 (Accepted on 10-12--2018)

43. Hiranmoy Mondal, Poulomi De, Sicelo P. Goqo, Precious Sibanda, Numerical studies on porous nanofluid flow over a vertical plate in the presence of internal heat generation and thermal radiation. *International Journal of Nonlinear Science* (World Academic Union) (Accepted on 25/12/2018).

Conference Proceeding Publications:

44. Dulal Pal, Hiranmoy Mondal, Sewli Chatterjee, Chemical reaction on mixed convection radiation over a stretching sheet embedded in a porous medium with Soret and Dufour's effects. *Int. J. BITM Transaction* 1(4) (2010) ISSN: 0974-9527 page no. 436-450.

45. Poulomi De, **Hiranmoy Mondal**, and Uttam Kumar Bera, Similarity flow to viscous flow and heat transfer of nanofluid over nonlinearly stretching sheet. *International Journal–BITM Transaction on EECC*, 3(1), (2014) 114-123. ISSN: 0974-9527.

46. **Hiranmoy Mondal** and Sewli Chatterjee, Effects of Radiative heat and mass transfer on MHD mixed Convective Flow Over a Stretching Sheet with Non-Uniform Heat Source/Sink. *International Journal–BITM Transaction on EECC*, 3(1) (2014) 93-102.

47. Shweta Mishra, Sewli Chatterjee, **Hiranmoy Mondal**, Mixed convection flow of a nanofluid through a porous medium with internal heat generation and chemical reaction. *Int. J. BITM Transaction on EECC* 5(1) (2016) 91-97.

48. Sukriti Roy, Shweta Mishra, **Hiranmoy Mondal**, Souvik Paul, Dual solution in boundary layer flow and heat transfer of a nanofluid over a nonlinear stretching/shrinking sheet. *Int. J. BITM Transaction on EECC* 5(1) (2016) 155-162.

49. **Hiranmoy Mondal**, Sicelo Goqo, Precious Sibanda, Micropolar fluid of heat mass transfer over an inclined plate with Soret-Dufour and chemical reaction. *Int J BITM Transactions on EECC*, 6(1) (2017) ISSN No . 0974-9527.

50. Hiranmoy Mondal, Precious Sibanda, Spectral quasi-linearization method for entropy generation using the Cattaneo-Christov heat flux model, *ICCM2018*, 6th-10th August (2018), Rome, Italy ISSN 2374-3948 (online) pp.305-321

51. Hiranmoy Mondal, Sewli Chatterjee, Thermophoresis and Soret- Dufour on MHD mixed convection mass transfer over an inclined at plate in the presence of non-uniform heat source/sink. *Int. Conference on Engineering Education in the New Century (E2NC-2012)* in associated with CSIR- CEERI, Pilani, (2012), ISBN: 978-93-80663-35-7. Page no. 149-160.

52. Dulal Pal, Hiranmoy Mondal, Influence of Soret and Dufour on MHD convective heat and mass transfer over a stretching sheet in a porous medium. National Seminar on recent advances in Mathematics and its applications in Engineering Sciences (RAMAES 2012), March 16-17' 2012" ISBN: 978-93-5067-395-9. Page no. 61-68.

53. Poulomi De, Hiranmoy Mondal, Uttam Kumar Bera, MHD Mixed Convective Boundary Layer Flow of Nanofluids due to Stretching Sheet with Thermal radiation and Viscous Dissipation. Energy System Modeling & Optimization Conference, NIT Durgapur, ISBN 978-93-80813-25-7, p- 120-125, December 9-11, 2013.

54. Pranab Kanti Roy and Hiranmoy Mondal , Influence of moving fins with temperature dependent surface heat flux and multi boiling heat transfer. National Conference on Recent Advances on Mathematics, Engineering and Management RAMEM-2014, BITM, Santiniketan, ISBN 978-93-83303-58-8, Page No. 114-124, Published and printed by Mudranik Technologies Pvt. Ltd.

55. Hiranmoy Mondal and Sewli Chatterjee, Effects of Radiative heat and mass transfer on MHD mixed Convective Flow Over a Stretching Sheet with Non-Uniform Heat Source/Sink. National Conference on Recent Advances on Mathematics, Engineering and Management RAMEM-2014, BITM, Santiniketan, ISBN 978-93-83303-58-8, Page No. 105-113, Published and printed by Mudranik Technologies Pvt. Ltd.

56. Poulomi De, Hiranmoy Mondal and Uttam Kumar Bera, Similarity flow to viscous flow and heat transfer of nanofluid over nonlinearly stretching sheet. National Conference on Recent Advances on Mathematics, Engineering and Management RAMEM-2014, BITM, Santiniketan, ISBN 978-93-83303-58-8, Page No. 158-166, Published and printed by Mudranik Technologies Pvt. Ltd.

57. Shweta Mishra, Sukriti Roy, Hiranmoy Mondal and Uttam Kumar Bera, Effects of nanofluids on MHD mixed convective heat and mass transfer over a non-linear stretching surface with suction/injection. National Conference on Recent Advances on Mathematics, Engineering and Management RAMEM-2014, BITM, Santiniketan, ISBN 978-93-83303-58-8, Page No. 167-180, Published and printed by Mudranik Technologies Pvt. Ltd.

58. Hiranmoy Mondal, Precious Sibanda, Prabir Kumar Kundu, Effects of a nanofluids on MHD heat and mass transfer over a stretching sheet with thermal radiation and viscous dissipation. Proceedings of "Institute for Mathematics, Bioinformatics, Information Technology and Computer-science, IMBIC", Vol 5 (2016)114-128. ISBN 978-81-925832-4-2.

59. Hiranmoy Mondal, Precious Sibanda, Effects of MHD convection Radiative Heat and Mass Transfer of Nanofluids over a Nonlinear Stretching Sheet. Proceedings of National Seminar on Application of Mathematics in Technology and Management (NSAMTM 2016) 8-9 September, 2016, ISBN: 978-93-84659-98-1.

60. Hiranmoy Mondal, Poulomi De, Sewli Chatterjee, Sicelo Goqo, Precious Sibanda, Dual solution of three-dimensional MHD heat and mass transfer nanofluids due to shrinking sheet with viscous dissipation and heat

generation/absorption. Proceedings of IMBIC, Vol 6 (2017)35-50, ISBN 978-81-925832-5-9.

61. S. hina Daniel O.L.O. NIIJU, Sicelo Goqo, Hiranmoy Mondal, Precious Sibanda, On spectral quasilinearization, standard and Non-standard finite difference methods for solving differential equations. Proceedings of IMBIC, Vol 6 (2017)51-65, ISBN 978-81-925832-5-9.

62. Subrata Das, Shweta Mishra, Hiranmoy Mondal, Prabir Kumar Kundu, Precious Sibanda, Effects of viscoelastic nanofluid on MHD flow over a stretching sheet with thermal radiation and heat generation. Proceedings of IMBIC, Vol 6 (2017)51-65, ISBN 978-81-925832-5-9.

63. Hiranmoy Mondal , Mohammed Almakki, Precious Sibanda, Heat and mass transfer of a nanofluid over a nonlinearly stretching sheet with viscous dissipation and thermal radiation. Proceedings of IMBIC, Vol 7 (2018)99-111, ISBN 978-81-925832-6-6.

64. Subrata Das, Hiranmoy Mondal, Prabir Kumar Kundu, Precious Sibanda, Entropy analysis for MHD viscoelastic nanofluid flow over a stretching sheet with nonlinear thermal radiation. Proceedings of IMBIC, Vol 7 (2018)112-135, ISBN 978-81-925832-6-6.

Invited Lectures:

1. Delivered a lecture on “Application in fluid dynamics using spectral numerical methods” at Sushil Kar College, (Under Calcutta University), 24 Pargana (S), on 22nd December, 2017.
2. Delivered a lecture on “current research in fluid mechanics” at Jadavpur University, February 26-28, 2018.
3. Delivered a lecture on Science Academy Lecture Workshop on Science Academy’s Refresher Course on Concept of Fluid Dynamics and Applications (CFDA -2018) during June25-July6, 2018 at IIT(ISM Dhanbad).

Presented Papers in the Conferences & Seminars

1. Presented paper on “Flow of viscous fluid and heat transfer past a permeable wedge with temperature dependent viscosity and heat absorption” at ISMU, Dhanbad, “**National Seminar**” on “**PATAS**” held during March 20-21, 2006.
2. Presented paper on “Radiation effects on combined convection over a vertical flat plate embedded in a porous medium of variable porosity” at Bangalore University, *International Conference on “Frontiers in Fluid Mechanics”* held during October 26-28, 2006.
3. Presented paper on “Temperature dependent viscosity and magnetic field effect on forced convection flow adjacent to a non-isothermal wedge in the presence of thermal radiation” at Burdwan University, *International Conference on “ICFMA”* held during January 16-18, 2008.
4. Presented paper on “The influence of thermal radiation on hydromagnetic non-Darcian flow heat and mass transfer adjacent to a vertical stretching sheet embedded in a porous medium” at Visva-Bharati, Santiniketan, *National Seminar on “GAM”* held during March 28-29, 2008.

5. Presented paper on “Thermal radiation effect on non-Darcy flow and heat transfer over a stretching sheet in the presence of Ohmic dissipation” at Burdwan University, “*National Seminar*” on “*NSEAMA*” held during February 18-20, 2009.
6. Presented paper on “Effect of temperature dependent viscosity on MHD mixed convective heat transfer past a porous wedge in the presence of heat source/sink” at Visva-Bharati, “*National Seminar*” on “*ANLS*” held during Feb’ 21-23, 2009.
7. Presented paper on “Heat transfer in MHD forced convection flow over a non-isothermal wedge in presence of thermal radiation and joule heating” for presentation in “*National Seminar*” on “*UAMA*” to be held at Burdwan Womens College, Feb’ 27, 2009.
8. Presented paper on “Influence of chemical reaction and thermal radiation on mixed convection heat and mass transfer over a vertical stretching surface in a porous medium with Soret and Dufour effects” “*International conference*” on “*ICRAMA*” held during Jan’ 13-15, 2010.
9. Presented paper on “Chemical reaction on mixed convection-radiation interaction over a stretching sheet embedded in a porous medium with Soret and Dufour’s effects” in *2nd International Conference on “RAMTM”* held during Jan’ 11-12, 2010 at Bengal Institute of Technology & Management, Santiniketan.
10. Presented paper on “Soret and Dufour effects on mixed convection-radiation interaction over a stretching sheet embedded in a porous medium with chemical reaction” in *National Seminar on “MNS”* held during Mar’ 20-21, 2010 at Visva-Bharati, Santiniketan.
11. Presented paper on “Hydromagnetic non-Darcy flow, heat and mass transfer over a stretching Sheet in the presence of thermal radiation and Ohmic dissipation” in *National Seminar on “NSMA”* held during Feb’ 24-24, 2011 at Burdwan University.
12. Presented paper on “Soret-Dufour effects on MHD non-Darcian heat and mass transfer mixed Convection flow over a non-linear stretching sheet embedded in a porous medium with chemical reaction” in *3rd International Conference on “RAMTM”* held during March’ 21-22, 2011 at Bengal Institute of Technology & Management, Santiniketan.
13. Presented paper on “Non-Darcy heat and mass transfer over a stretching sheet in the presence of thermal radiation, Ohmic dissipation and non-uniform heat source/sink” in *National Seminar on “ANS”* held during March’ 26-27, 2011 at Visva-Bharati, Santiniketan.
14. Presented paper on “Thermophoresis and Soret-Dufour on MHD mixed convection mass transfer over an inclined at plate in the presence of non-uniform heat source/sink” Proceedings of International Conference on Engineering Education in the New Century (E2NC-2012) in associated with CSIR-CEERI, Pilani, February 03-04, 2012” ISBN: 978-93-80663-35-7.
15. Presented paper on “Influence of Soret and Dufour on MHD convective heat and mass transfer over a stretching sheet in a porous medium”. “proceeding of the National Seminar on recent advances in Mathematics and its

- applications in Engineering Sciences (RAMAES 2012), March 16-17' 2012" ISBN: 978-93-5067-395-9. Page no. 61-68.
16. Presented paper on "Effects of thermophoresis and Soret-Dufour on MHD mixed convection mass transfer over an inclined flat plate with non-uniform heat source/sink. National Seminar on "NAAA-2012" March 24-25th at Visva-Bharati, Santiniketan.
 17. Attended "One Day Workshop On National Programme in Technology Enhanced Learning(NPTEL) in association with CLASSLE, Chennai" Organized by Bengal Institute of Technology & Management, Santiniketan February 04, 2013.
 18. Presented paper on "Effects of Thermophoresis and Soret- Dufour on heat and mass transfer in a micropolar fluid over an inclined plate" National Seminar on "Mathematics and its Applications" on the occasion of the Golden Jubilee Year 2012-2013 of Department of Mathematics, Visva-Bharati (30 – 31 March 2013).
 19. Presented paper on " MHD Mixed Convective Boundary Layer Flow of Nanofluids due to Stretching Sheet with Thermal radiation and Viscous Dissipation", Energy System Modeling & Optimization Conference, NIT Durgapur, ISBN 978-93-80813-25-7, p- 116, December 9-11, 2013.
 20. Presented paper on " Radiation effects on mixed convective boundary layer flow of nanofluids over a nonlinear stretching sheet in presence of viscous dissipation", 3rd International Conference On Frontiers Of Mathematics & Applications, The University of Burdwan, p-51, January 29-31, 2014.
 21. Presented paper on "Effects of nanofluids on MHD mixed convection heat and mass transfer over a nonlinear stretching surface with suction/injection", two days National Conference on Recent Advances in Mathematics, Engineering & Management, at BITM, Santiniketan (Under West Bengal University of Technology, Kolkata) under the sponsorship of AICTE-IIPC on 22nd & 23rd March, 2014.
 22. Presented paper on "Effects of radiative heat and mass transfer on MHD mixed convective flow over a stretching sheet with non-uniform heat source/sink", two days National Conference on Recent Advances in Mathematics, Engineering & Management, at BITM, Santiniketan (Under West Bengal University of Technology, Kolkata) under the sponsorship of AICTE-IIPC on 22nd & 23rd March, 2014.
 23. Presented paper on "Influence of moving fins with temperature dependent surface heat flux and multi boiling heat transfer" two days National Conference on Recent Advances in Mathematics, Engineering & Management, at BITM, Santiniketan (Under West Bengal University of Technology, Kolkata) under the sponsorship of AICTE-IIPC on 22nd & 23rd March, 2014.
 24. Presented paper on "Ninth Annual Research Workshop on Numerical Methods for Differential Equations, School of Mathematics, Statistics & Computer Science , University of KwaZulu-Natal,Pietermaritzburg Campus 4 – 8 July 2016.

25. Presented paper on “Homogeneous-heterogeneous reactions and melting in MHD stagnation point flow of a nanofluid. 59th Annual congress of the South African Mathematical Society University of the Western Cape, 2 - 4 November 2016.
26. Presented paper on “Tenth Annual Research Workshop on Numerical Methods for Differential Equations, School of Mathematics, Statistics & Computer Science , University of KwaZulu-Natal, Pietermaritzburg Campus 3 – 7 July 2017.
27. Presented paper on “Turbulent Compressible Boundary Layer Flow with Adverse Pressure Gradient and Thermal Radiation” The 60th Annual of the South African Mathematics Society will take place at the Potchefstroom campus of North-West University, during 20-22, November 2017.
28. Presented paper on “Dual solution of three-dimensional MHD heat and mass transfer nanofluids due to shrinking sheet with viscous dissipation and heat generation/absorption”. The 11th International Conference MSAST 2017, December 21 - 23, 2017, Kolkata, India.

Reviewer of the following journals:

1. Chemical Engineering Communications (Taylor & Francis)
2. Nonlinear Analysis: Modelling and Control (Lithuanian Association)
3. Nuclear Engineering and Design (Elsevier Journal)
4. Communications in Nonlinear Science and Numerical Simulations (Elsevier Journal)
5. International Journal of Chemical Reactor Engineering
6. Applied Mathematics and Computation (Elsevier Journal)
7. Meccanica (Springer)
8. The Arabian Journal for Science and Engineering (springer Journal)
9. Asia-Pacific Journal of Chemical Engineering (Curtin University of Technology and John Wiley & Sons, Ltd.)
10. Journal of porous media
11. Zeitschrift für Naturforschung Editorial Office , Naturforsch. Tübingen
12. Journal of Mechanical Engineering Research (Academic Journals)
13. Int. J Physical Sciences (Academic Journals)
14. Journal of Thermal Science
15. Journal of King Saud University, (Elsevier Journal)
16. Journal of Aerospace Engineering
17. Heat Transfer - Asian Research (Wiley publication)
18. British Journal of Applied Science & Technology
19. Ain Shams Engineering Journal (Elsevier)
20. Proceedings of the National Academy of Sciences, India Section A: Physical Sciences, Springer
21. AIP Journal (Thomson Reuters)
22. PLOS ONE
23. American Journal of Applied Sciences
24. Journal of Computational Design and Engineering (Elsevier)
25. Int. Journal of Heat and Mass Transfer (Elsevier)
26. Journal of Nanofluids.
27. Thai journal of Mathematics
28. Central European journal of Physics
29. Nature Journal

30. Alexandria Engineering Journal
31. Open Physics
32. International Journal of Applied and Computational Mathematics
33. Ain Shams Engineering Journal
34. Alexandria Engineering Journal
35. Int J Mechanical Sciences
36. Int J thermal Sciences
37. Journal of Thermal engineering
38. Propulsion of power research
39. Multidiscipline Modeling in Materials and Structures
40. International Journal of Heat and Fluid Flow

References:

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