

FACULTY PROFILE

Dr. U.S. Mahabaleshwar

Professor

Mathematics

Qualification : M.Sc., M.Phil., Ph.D.

Areas of Specialization : Fluid Mechanics

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Academic Responsibilities

1. National Education Policy State Member
2. Director for Student Welfare
3. Coordinator for Research
4. Member for Finance
5. Member: Academic Council Member
6. BOS-PG-Chairman, BOS-UG
7. Chairman, Doctoral Committee
8. Chairman, Department Council
9. Chairman: LIC committee

Educational Qualifications

Sl. No.	Degree	Specialization/ Subjects	University	Year of Award/ Passing
1	Ph.D.	Mathematics Fluid Mechanics	Professor Dr. P.G. Siddheshwar Bangalore University	2006
2	M.Phil.,	Mathematics Fluid Mechanics	Professor Dr. M.Subhas Abel Gulbarga University	2001
3	PG	Mathematics	Gulbarga University	2000
4	UG	Physics, Mathematics & Chemistry	Gulbarga University	1998

Professional Details (Academic/Research Experience)

Sl. No.	Designation	Institution/University	UG/PG	From	To
1	Guest Lecturer	Gulbarga University, P. G. Centre Jnana Sarovara, Nandihalli Sandur- 583 119	UG/PG	2001	2002

2	Guest Lecturer	Department of Mathematics, Bangalore University–UVCE, INDIA for two years, during this period, I taught to B. E.and M. E. students (Evening College). (2003-2005).	UG/PG	2003	2005
3	Assistant Professor	Department of Collegiate Education, Government of Karnataka	UG	24.12.2007	31-05-2019
4	Professor	Davangere University	PG	01-06-2019	To till date

Areas of Research Interest:

1.	Rayleigh-Bénard Convection problems (RBC)
2.	Linear and nonlinear stretching sheet problems
3.	Heat and mass transfer problems in Newtonian and Non-Newtonian fluids
4.	Double diffusive convection
5.	Marangoni convection

Academic/Administrative responsibilities:

1.	BOS Member at Mysore University in 2016
2.	BOE,BOS & BOAE, Chairman , Davangere University, Davangere from 2019 to till date
3.	<p>(a) Reviewer: International Journal Reviewed</p> <ol style="list-style-type: none"> 1. International Journal of Heat and mass transfer 2. Physics of Fluids 3. Journal of Porous Media 4. International Journal of Numerical Methods for Heat and Fluid Flow 5. Asian Research Journal of Mathematics 6. Continuum Mechanics and thermodynamics 7. Open Journal of Heat, Mass and Momentum Transfer 8. Science Journal of Applied Mathematics and Statistics 9. British Journal of Mathematics & Computer Science

	<p>10. International Journal of Microscale and Nanoscale Thermal Fluid Transport Phenomena.</p> <p>11. International Journal of Numerical Methods in fluids.</p> <p>(b) Editor</p> <ul style="list-style-type: none"> ● MATHEMATICAL MODELLING OF ENGINEERING PROBLEMS (Canada) http://www.iieta.org/Journals/MMEP/EDITORS ● INTERNATIONAL JOURNAL OF MATHEMATICS AND MATHEMATICAL SCIENCES(USA) http://systems.enpress-publisher.com/index.php/IJMSS/about/editorialTeam
4.	Worked as Head of the Department at Mathematics from 2010 to 2018
5.	Worked as NAAC Co-ordinator - NO
6.	<p>Any coordinator/in-charge/responsibilities held at previous institutions.</p> <p>a) Worked as member of Cultural committee</p> <p>b) Worked as member of IQAC committee</p> <p>c) RUSA committee member</p>

Research Projects:					
Sl. No.	Title of the Project	Funding Agency	Project Budget	Period	Status
1.	Effects of radiation and heat source/sink on nanofluid and heat transfer over a stretching/shrinking sheet in the presence of magnetic field.	VGST, Government of Karnataka	Rs. 06 Lakhs	2013-14	Completed.

Research Publications:

a) International Journals

1. T Anusha, HN Huang, **U.S.Mahabaleshwar**, (2021)Two dimensional unsteady stagnation point flow of Casson hybrid nanofluid over a permeable flat surface and heat transfer analysis with radiation, *Journal of the Taiwan Institute of Chemical Engineers*, **Accepted**
Impact Factor: 5. 584.
Q1 SJR 2020 0.99 H index 80, Publisher: : Elsevier, Taiwan Institute of Chemical Engineers.
DOI: <https://doi.org/10.1016/j.jtice.2021.08.014>
2. **U.S. Mahabaleshwar**, T Anusha, PH Sakanaka, S Bhattacharyya, (2021), Impact of Inclined Lorentz Force and Schmidt Number on Chemically Reactive Newtonian Fluid Flow on a Stretchable Surface When Stefan Blowing and Thermal Radiation are Significant,
Arabian Journal for Science and Engineering, 1-17.
Impact Factor: 2. 334.
Q2 SJR 2020 0.36 H index 43, Publisher: Springer Berlin
DOI: <https://doi.org/10.1007/s13369-021-05976-y>
3. L.T.Benos, K.R.Nagaraju, U.S.Mahabaleshwar, M.S.Prasad, I.E.Sarris, G.Lorenzini, (2021) Magnetohydrodynamic and radiation effects on the heat transfer of a continuously stretching/shrinking sheet with mass transpiration of the horizontal boundary, **Chinese Journal of Physics**, 72, 700-715.
Impact Factor: 3. 237.
Q2SJR 2020 0.59 H index 38, Publisher: Elsevier, Physical Society of the Republic of China
DOI: [10.1016/j.cjph.2021.06.003](https://doi.org/10.1016/j.cjph.2021.06.003)
4. K.E.Asilani, **U. S. Mahabaleshwar**, J. Singh & I. E. Sarris, (2021), Combined effect of radiation and inclined MHD flow of a micropolar fluid over a porous stretching/shrinking sheet with mass transpiration, *International Journal of Applied and Computational Mathematics* 7(3), 1-21.
Q3 SJR 2019 0.27 H index 14, Publisher: Springer India
DOI: [10.1007/s40819-021-00987-7](https://doi.org/10.1007/s40819-021-00987-7)
5. P.N. Vinay Kumar, **U. S. Mahabaleshwar**, N. Swaminathan & Giulio Lorenzini, (2021), Effect of MHD and mass transpiration on the viscous liquid flow due to a porous stretching sheet with heat transfer, *Journal of Engineering Thermophysics*, 2021, 30(3), 405-415.
Impact Factor: 1. 402.
Q2 SJR 2019 0.39 H index 18, Publisher: Pleiades Publishing, Russian Federation
DOI: <https://doi.org/10.1134/S1810232821030061>

6. G. Bognár, M. Klazly, U. S. Mahabaleshwar, G. Lorenzini & K. Hriczó (2021), Comparison of Similarity and Computational Fluid Dynamics Solutions for Blasius Flow of Nanofluid, *Journal of Engineering Thermophysics*, 2021, 30(3), 461-475.
Impact Factor: 1. 402.
Q2 SJR 2019 0.39 H index 18, Publisher: Pleiades Publishing, Russian Federation
DOI: <https://doi.org/10.1134/S1810232821030103>
7. D. Yadav, U.S. Mahabaleshwar, W. Abderrahim , R. Chand, 2021, Significance of the inconstant viscosity and internal heat generation on the occurrence of Darcy-Brinkman convective motion in a couple-stress fluid saturated porous medium: An analytical solution, *International Communications in Heat and Mass Transfer* 122, 105165.
Impact Factor: 5. 584.
Q1 SJR 2020 1.33 H index 110, Publisher: United Kingdom, London
DOI: doi.org/10.1016/j.icheatmasstransfer.2021.105165
8. U.S. Mahabaleshwar, KR Nagaraju, PN Vinay Kumar, MN Azese, (2020), Effect of radiation on thermosolutal Marangoni convection in a porous medium with chemical reaction and heat source/sink, *Physics of Fluids* 32 (11), 113602, **Impact Factor: 3.89.**
Impact Factor: 5. 584.
Q1 SJR 2019 1.4 H index 166, Publisher: American Institute of Physics(AIP), USA
DOI: <https://doi.org/10.1063/5.0023084>
9. S. Bhattacharyya, D.Sarkar, U.S. Mahabaleshwar, M.K. Soni, and M. Mohanra,(2020), Experimental study of thermohydraulic characteristics and irreversibility analysis of novel axial corrugated tube with spring tape inserts, *Eur. Phys. J. Appl. Phys.* 92, 30901, **Impact Factor: 0.762.**
Q3 SJR 2019 0.24 H index 98, Publisher: EDP Sciences, FRANCE
DOI: doi.org/10.1051/epjap/2020200192
10. MA Xenos, EN Petropoulou, A Siokis, U.S. Mahabaleshwar, (2020), Solving the Nonlinear Boundary Layer Flow Equations with Pressure Gradient and Radiation, *Symmetry* 12 (5), 710, **Impact Factor: 2.510.**
Q2 SJR 2019 0.37 H index 36, MDPI Multidisciplinary Digital Publishing Institute, Switzerland
DOI: <https://doi.org/10.3390/sym12050710>
11. U.S. Mahabaleshwar, M.B. Rekha, PN Vinay Kumar, F Selimefendigil, PH Sakanaka, G Lorenzini, SN Ravichandra Nayakar, (2020), Mass Transfer Characteristics of MHD Casson Fluid Flow past Stretching/Shrinking Sheet, *Journal of Engineering Thermophysics* 29 (2), 285-302, **Impact Factor: 0. 87.**

Q2 SJR 2019 0.39 H index 18, Publisher: Pleiades Publishing, Russian Federation

DOI: [10.1134/S1810232820020113](https://doi.org/10.1134/S1810232820020113)

12. **U.S. Mahabaleshwar**, K. Nagaraju, Mikhail A. Sheremet, Dumitru Baleanu & Enzo Lorenzini ,Mass transpiration on Newtonian flow over a porous stretching/shrinking sheet with slip, *Chinese Journal of Physics*, 63, 130-137, 2020, **Impact Factor: 2.54.**

Q2 SJR 2019 0.49 H index 32, Publisher: Physical Society of the Republic of China, Taiwan

DOI: <https://doi.org/10.1016/j.cjph.2019.11.016>

13. **U.S Mahabaleshwar**, KR Nagaraju, PN Vinay Kumar, MN Nadagouda, R Bennacer, MA Sheremet, Effects of Dufour and Soret mechanisms on MHD mixed convective-radiative non-Newtonian liquid flow and heat transfer over a porous sheet, *Journal of Thermal Science and Engineering Progress* 16, 100459, 2020

Q1 SJR 2019 1.04 H index 19, Publisher: Elsevier Ltd., United Kingdom, London.

DOI: <https://doi.org/10.1016/j.tsep.2019.100459>

14. **U.S. Mahabaleshwar**, KR Nagaraju, MN Nadagouda, R Bennacer, Dumitru Baleanu, An MHD viscous liquid stagnation point flow and heat transfer with thermal radiation & transpiration *Journal of Thermal Science and Engineering Progress* , V 16, 100379, 2020.

Q1 SJR 2019 1.04 H index 19, Publisher: Elsevier Ltd., United Kingdom, London.

DOI: <https://doi.org/10.1016/j.tsep.2019.100379>

15. Jitender Singh, **U.S. Mahabaleshwar**, and G. Bogner, Mass transpiration in nonlinear MHD flow due to porous stretching sheet, *Nature Scientific Reports*, 9(1), 1-15, **Impact Factor: 4.061.**

Q1 SJR 2019 1.34 H index 179, Publisher: Nature Publishing Group, London.

DOI: <https://doi.org/10.1038/s41598-019-52597-5>

16. **U.S. Mahabaleshwar**, K. R. Nagaraju, M.A. Sheremet, P. N. Vinay Kumar, & Giulio Lorenzini, Effect of mass transfer and MHD induced Navier's slip flow due to a non linear strengthening sheet" *Journal of Engineering Thermophysics (JET)*, vol. 28, 2019, **Impact Factor: 0. 87.**

Q2 SJR 2019 0.39 H index 18, Publisher: Pleiades Publishing, Russian Federation

DOI: [10.1134/s1810232819040131](https://doi.org/10.1134/s1810232819040131)

17. Lefteris Th. Benos, Nickolas D. Polychronopoulos , **U.S. Mahabaleshwar**, Giulio Lorenzini & Ioannis E. Sarris, Thermal and flow investigation of MHD natural convection

in a nanofluid saturated porous enclosure: an asymptotic analysis, *Journal of Thermal Analysis and Calorimetry*, 1-15, 2019, **Impact Factor: 2. 471.**

Q3 SJR 2019 0.42 H index 87, Publisher: Springer Netherlands, Netherlands

DOI: <https://doi.org/10.1007/s10973-019-09165-w>

18. **U.S. Mahabaleshwar**, P. N. Vinay Kumar, F. Selimefendigil, Paulo Hiroshi Sakanaka, Giulio Lorenzini & Ravichandra Nayakar, Mass transfer characteristics of an MHD Casson fluid flow past a stretching/shrinking sheet, *Journal of Engineering Thermophysics (JET)*, 29, pages285–302(2020) ,**Impact Factor: 0. 87.**

Q2 SJR 2019 0.39 H index 18, Publisher: Pleiades Publishing, Russian Federation

DOI: <https://doi.org/10.1134/S1810232820020113>

19. LT Benos, **U.S. Mahabaleshwar**, PH Sakanaka, IE Sarris, Thermal analysis of the unsteady sheet stretching subject to slip and magnetohydrodynamic effects, *Thermal Science and Engineering Progress*, 100367. 3, 2019.

Q1 SJR 2019 1.04 H index 19, Publisher: Elsevier Ltd., United Kingdom, London.

DOI: <https://doi.org/10.1016/j.tsep.2019.100367>

20. P.N. Vinaykumar, **U.S. Mahabaleshwar**, K. R. Nagaraju, M. Mousavi Nezhad, A.Daneshkhah, Mass transfer in MHD boundary layer flow over a superlinear stretching sheet embedded in porous medium with slip, *Journal of Porous Media*, 22 (8), 1015-1025, 2019, Begell House publication , USA, **Impact Factor: 1.061.**

Q2 SJR 2019 1.04 H index 33, Publisher: Begell House Inc., United States

DOI: [10.1615/JPorMedia.2019025664](https://doi.org/10.1615/JPorMedia.2019025664)

21. **U.S. Mahabaleshwar**, Ravichandra Nayakar , P.N.Vinaykumar , Giulio Lorenzini , Dumitru Baleanu, Nonlinear Stretching/Shrinking Cooling of a Sheet Involving an MHD Walters' Liquid B with Suction, *Mathematical Modelling of Engineering Problems* , Vol. 6(3), 343-348, 2019.

Q2 SJR 2019 0.33 H index 09, Publisher: International Information and Engineering Technology Association, Canada

DOI: <https://doi.org/10.18280/mmep.060304>

22. K.R.Nagaraju, **U.S. Mahabaleshwar**, |Asimina A. Krimpeni, Ioannis E. Sarris| Giulio Lorenzini, Impact of Mass Transpiration on Unsteady Boundary Layer Flow of Impulsive Porous Stretching, *Mathematical Modelling of Engineering Problems* , Vol. 6(3), 349-354, 2019.

Q2 SJR 2019 0.33 H index 09, Publisher: International Information and Engineering Technology Association, Canada

DOI: <https://doi.org/10.18280/mmep.060305>

23. M Zhao, S Wang, H Wang, **U.S. Mahabaleshwar**, Darcy–Brinkman bio-thermal convection in a suspension of gyrotactic microorganisms in a porous medium, *Neural Computing and Applications*, 31(4), pp 1061–1067, 2019, **Impact Factor: 4.664**

Q1 SJR 2019 0.8 H index 68 , Publisher: Springer, United Kingdom, London.

DOI: <https://doi.org/10.1007/s00521-017-3137-y>

24. Sharath C.H. Somashekhara Arun K.Y. Setty , Srinath M. S., **U.S. Mahabaleshwar**, Poornima Adiga, Giulio Lorenzini, Makespan reduction using dynamic job sequencing combined with buffer optimization applying genetic algorithm in a manufacturing system, *Mathematical Modelling of Engineering Problems* , Vol. 6(1), 29-37, 2019.

Q2 SJR 2019 0.33 H index 09, Publisher: International Information and Engineering Technology Association, Canada

DOI: <https://doi.org/10.18280/mmep.060104>

25. P.B. Mallikarjun, R. V. Murthy, **U.S. Mahabaleshwar**, & Giulio Lorenzini, Numerical Study of Mixed Convective Flow of a Couple Stress Fluid in a Vertical Channel with First Order Chemical Reaction and Heat Generation/Absorption, *Mathematical Modelling of Engineering Problems*, Vol.6(2) 175-182, 2019.

Q2 SJR 2019 0.33 H index 09, Publisher: International Information and Engineering Technology Association, Canada

DOI: <https://doi.org/10.18280/mmep.060204>

26. **U.S. Mahabaleshwar**, Nagaraju K.R., Vinaykumar P.N., S.N. Ravichandran and G. Bogner, A new exact solution for the flow of a fluid through porous media for a variety of boundary conditions, *Fluids Journal* , 4, 125, 2019 .

Q2 SJR 2019 0.33 H index 11, Publisher: MDPI Multidisciplinary Digital Publishing Institute, Switzerland

DOI: <https://doi.org/10.3390/fluids4030125>

27. **U.S. Mahabaleshwar**, Ioannis E. Sarris & Giulio Lorenzini , Effect of radiation and Navier slip boundary of Walters' liquid B flow over a stretching sheet in a porous media, *International Journal of Heat and Mass Transfer* 127 (2018) 1327–1337, **Impact Factor:4.346**.

Q1 SJR 2019 1.65 H index 194, Publisher: United Kingdom, London

DOI: [0.1016/j.ijheatmasstransfer.2018.02.084](https://doi.org/10.1016/j.ijheatmasstransfer.2018.02.084)

28. Shashank L. M., Srinath M. S., A. H. Jayraj , **U.S. Mahabaleshwar**, Giulio Lorenzini, Enrico Lorenzini, Development of copper alloy by microwave hybrid heating technique

and its characterization, *International Journal of Heat and Technology*, Vol. 36(4), 1343-1349, 2018.

Q1 SJR 2019 1.65 H index 194, Publisher: United Kingdom, London

DOI: [10.18280/ijht.360425](https://doi.org/10.18280/ijht.360425)

29.P.B. Mallikarjun, R.V.Murthy, A. J. Chamkha , **U.S. Mahabaleshwar**, & and Giulio Lorenzini, Finite-Element Analysis of Fully Developed Mixed Convection through a Vertical Channel in the Presence of Heat Generation/Absorption with a First-Order Chemical Reaction, *Defect and Diffusion*: 2018-, 388, pp 394-406.

Q3 SJR 2019 0.22 H index 30, Publisher: Trans Tech Publications, Switzerland

DOI: <https://doi.org/10.4028/www.scientific.net/DDF.388.394>

30.**U.S. Mahabaleshwar**, P N Vinay Kumar,Patil Mallikarjun, M. M. Nezhadd & Giulio Lorenzini, Casson Liquid Flow due to Porous Stretching Sheet with Suction/Injection, *Defect and Diffusion* 2018, Vol. 388, pp 420-432.

Q3 SJR 2019 0.22 H index 30, Publisher: Trans Tech Publications, Switzerland

DOI: <https://doi.org/10.4028/www.scientific.net/DDF.388.420>

31.P. N. V. Kumar, **U.S. Mahabaleshwar**, P. H. Sakanaka & G. Lorenzini, An MHD Effect on a Newtonian Fluid Flow Due to a Superlinear Stretching Sheet, *Journal of Engineering Thermophysics*, 2018, Volume 27, Issue 4, pp 501, **Impact Factor: 0. 87.**

Q2 SJR 2019 0.39 H index 18, Publisher: Pleiades Publishing, Russian Federation

DOI: <https://doi.org/10.1134/S1810232818040112>

32.Moli Zhao, Shaowei Wang , S.C. Lib, **U.S. Mahabaleshwar**, & Q.Y. Zhangb Chaotic Darcy-Brinkman convection in a fluid saturated porous layer subjected to gravity modulation, *Results in Physics* 9 (2018) 1468–1480, **Impact Factor: 3.042.**

Q2 SJR 2019 0.61 H index 41, Publisher: Elsevier BV Publishing, Netherlands

DOI: <https://doi.org/10.1016/j.rinp.2018.04.047>

33.**U.S. Mahabaleshwar**, K. R. Nagaraju, P. N. Vinaykumar & N. A. Kelson, An MHD Navier's slip flow over axisymmetric linear stretching sheet using differential transform method, *International Journal of Applied and Computational Mathematics* , 2018, 10.1007/s40819-017-0446-x.

Q3 SJR 2019 0.27 H index 14, Publisher: Springer India

DOI: <https://doi.org/10.1007/s40819-017-0446-x>

34. P. G. Siddheshwar, U.S. Mahabaleshwar, Flow and Heat Transfer to a Newtonian Fluid Over Non-linear Extrusion Stretching Sheet, *International Journal of Applied and Computational Mathematics* (2018) 4:35 <https://doi.org/10.1007/s40819-017-0466-6>.

Q3 SJR 2019 0.27 H index 14, Publisher: Springer India

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35. U.S. Mahabaleshwar, K. R. Nagaraju, P.N. Vinay Kumar Dumitru Baleanu and Giulio Lorenzini, An exact analytical solution of the unsteady magnetohydrodynamics nonlinear dynamics of laminar boundary layer due to an impulsively linear stretching sheet, *Continuum Mechanics and Thermodynamics* March 2017, Volume 29, Issue 2, pp 559–567, **Impact Factor 2.311**.

Q2 SJR 2019 0.65 H index 47, Publisher: Springer New York

DOI: <https://doi.org/10.1007/s00161-016-0543-9>

36. U.S. Mahabaleshwar, D. Basavaraja, Shaowei Wang, Giulio Lorenzini & Enrico Lorenzini, Convection in a porous medium with variable internal heat source and variable gravity, *International Journal of Heat and Mass Transfer*, 111 (2017) 651–656 **Impact Factor :4.346**.

Q1 SJR 2019 1.65 H index 194, Publisher: United Kingdom, London

DOI: <https://doi.org/10.1016/j.ijheatmasstransfer.2017.04.030>

37. U.S. Mahabaleshwar, I. Pažanin, M. Radulović, F. J. Suárez-Grau, Effects of small boundary perturbation on the MHD duct flow, *Theoretical and Applied Mechanics* 44 (1) (2017), 83-101, **Impact Factor:0.76**.

Q3 SJR 2019 0.33 H index 04, Publisher: Serbian Society for Mechanics ,Serbia

DOI: <https://doi.org/10.2298/TAM170511004M>

38. K. MARUTHI PRASAD, U.S. Mahabaleshwar, & T. SUDHA, Flow of nanofluid through an inclined tube of non uniform cross section with multiple stenoses, 2017 , *International Journal of Energy and Thermal Fluid*. 2017;1(1):14-31.

DOI: 10.14445/22315381/IJETT-V48P262

39. K. Maruthi Prasad, U.S. Mahabaleshwar, and N. Subadra, Peristaltic transport of a couple-stress fluid with nanoparticles in an inclined Tube *International Journal of Engineering Trends and Technology (IJETT)* – Volume 48 Number 7 June 2017.

DOI: 10.14445/22315381/IJETT-V48P262

40.U.S. Mahabaleshwar, A viscoelastic fluid due to a nonlinear accelerating elastic sheet, *Advances in Rheology*, Nova Science Publishers, UNITED STATES OF AMERICA, 2017, Chapter-12, pp381 -408 .

SJR 2019 0.0 H index 01, Publisher: Nova, USA

DOI: <https://novapublishers.com/shop/advances-in-rheology-research/>

41.U.S. Mahabaleshwar, M B Patil Thermal radiation effect on fully developed laminar mixed convection flow in a vertical porous stratum by using differential transform method, *Advances in Rheology Book Chapter*, Nova Science Publishers, UNITED STATES OF AMERICA, 2017, Chapter-123, pp 409 -431.

SJR 2019 0.0 H index 01, Publisher: Nova, USA

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42.U.S. Mahabaleshwar, Giulio Lorenzini, Combined effect of heat source/sink and stress work on MHD Newtonian fluid flow over a stretching porous sheet, *International Journal of Heat & Technology*, Vol. 35, Special Issue 1, September 2017, pp. S330-S335.

Q2 SJR 2019 0.3 H index 26, Publisher: Edizioni E.T.S., Italy

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43.M. Arivanandhan, U.S. Mahabaleshwar, & Ioannis. E. Sarris., Applications to haemodynamics for the flow of carbon nanotubes suspended nanofluid due to a stretching sheet with *International Workshop on Advanced Functional Nanomaterials (IWAN 4)*, Page 135-144. 2017.

44. Agathesh Waran M, S. ArunBalaji , M. Arivanandhan, U.S. Mahabaleshwar, I.E. Sarris and R. Jayavel Heat Transfer Enhancement on Forced Convection Heat Exchanger Using Graphene Oxide-TiO₂ Nanocomposites as Nanofluids, *International Workshop on Advanced Functional Nanomaterials (IWAN 4)* Page 145-155. 2017.

45. International Workshop on Advanced Functional Nanomaterials (IWAN 4), Page 113-117,2017 /

46.U.S. Mahabaleshwar, I.E. Sarris , A.A. Hill, Giulio Lorenzini and Ioan Pop, An MHD couple stress fluid due to a perforated sheet undergoing linear stretching with heat transfer *International Journal of Heat and Mass Transfer* 105 (2017) 157–167, **IMPACT FACTOR: 4.346.**

Q1 SJR 2019 1.65 H index 194, Publisher: United Kingdom, London

DOI: <https://doi.org/10.1016/j.ijheatmasstransfer.2016.09.040>

47. **U.S. Mahabaleshwar**, P. N. Vinay Kumar and Mikhail Sheremet Magnetohydrodynamics flow of a nanofluid driven by a stretching/shrinking sheet with suction, *SpringerPlus*, 2016, 5(1) 1901, **IMPACT FACTOR:0.982**.

Q1 SJR 2019 0.41 H index 41, Publisher: Springer Science and Business Media Deutschland GmbH, Germany

DOI: <https://doi.org/10.1186/s40064-016-3588-0>

48. **U.S. Mahabaleshwar**, Effect of partial slip viscous flow over a stretching sheet with suction/injection in a porous medium, *Porous Media: Theory, Properties, and Applications*, Nova Science Publishers, Editor: Doris Wolfe. Chapter 5, pages 165-180, 2016, ISBN 978-1-63485-474-0, UNITED STATES OF AMERICA.

SJR 2019 0.0 H index 01, Publisher: Nova, USA

ISBN: 978-1-63485-452-8

49. **U.S. Mahabaleshwar**, Effect of first order chemical reaction in a vertical double passage channel saturated with porous medium, *Porous Media: Theory, Properties, and Applications*, Nova Science Publishers, Editor: Doris Wolfe. Chapter 4, pages 125-164, 2016, ISBN 978-1-63485-474-0, , UNITED STATES OF AMERICA.

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ISBN: 978-1-63485-452-8

50. M. Subhas Abel, **U.S. Mahabaleshwar**, & K.B. Mahesh, MHD viscoelastic boundary layer flow and heat transfer past a convectively heated radiating stretching/shrinking sheet with temperature dependent heat source/sink, embedded in a saturated porous media *International Journal of Physics and Mathematical Sciences*, 6 (1) . 50-62,2016 . Index Copernicus Value (ICV) = 5.69.

DOI: <http://www.ijtrd.com/papers/IJTRD6587.pdf>

51. M. Subhas Abel, **U.S. Mahabaleshwar**, & K.B. Mahesh,, MHD viscoelastic boundary layer flow and heat transfer past a convectively heated radiating stretching/shrinking sheet with temperature dependent heat source/sink with *Bulletin of Mathematics and Statistics Research*, vol.4(1), 191-202,2016 IMPACT FACTOR:3.59 (SJIF).

DOI: <http://www.bomsr.com/4.1.16/191-202%20M.SUBHAS%20ABEL.pdf>

52. P G Siddheshwar, **U.S. Mahabaleshwar**, and Andrew Chan., MHD flow of Walters' liquid b over a nonlinearly stretching sheet *International Journal of Applied Mechanics and Engineering*, 2015, vol.20, No.3, pp.589-603.

Q3 SJR 2019 0.21 H index 06, Publisher: de Gruyter, Germany

DOI: 10.1515/ijame-2015-0038.

53. P G Siddheshwar., **U.S. Mahabaleshwar**, Analytical solution to the MHD Flow of micropolar fluid over a linear stretching sheet *Int. J. of Applied Mechanics and Engineering*, 2015, vol.20, No.2, pp.397-406.

DOI: [10.1515/ijame-2015-0026](https://doi.org/10.1515/ijame-2015-0026)

54. **U.S. Mahabaleshwar**, M.M. Rashidi, N. Rahimzadeh, Ioannis Sarris and O. Anwar Bég, Homotopy analysis of magnetohydrodynamic convection flow in manufacture of a viscoelastic fabric for space applications *International Journal of Applied Mathematics and Mechanics*, 10 (10): 9-49, 2014.

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57. **U.S. Mahabaleshwar**, Linear stretching sheet problem with suction in porous medium, *Open Journal of Heat, Mass and Momentum Transfer*, (HMMT 2013, 1(1), 13-18) JAPAN.

DOI:

58. O. D. Makinde, **U.S. Mahabaleshwar**, Non-perturbative solution for hydromagnetic flow over a linearly stretching sheet with *International Journal of Applied Mechanics and Engineering*, (Vol. 18(3), 935-943, 2013) **Impact factor: 1.35**, POLAND.

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DOI: [10.2478/ijame-2013-0057](https://doi.org/10.2478/ijame-2013-0057)

59. **U.S. Mahabaleshwar**, Saha, Suvash C, Analytical solution of a Walters' liquid B flow over a linear stretching sheet in a porous medium In Zhao, Changying (Ed.) Focus on Porous Media Research. NOVA Science Publishers, Inc, New York, pp. 121-130. UNITED STATES OF AMERICA, 2013.

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60. **U.S. Mahabaleshwar**, Sunil A new adjustment of Laplace transform for fractional Bloch equation in NMR flow, *Applications & Applied Mathematics: An International Journal (AAM)*, 9, 201-216, 2014, UNITED STATES OF AMERICA, **Impact Factor: 0.762.**

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61. Antonio Mastroberardino, **U.S. Mahabaleshwar**, Mixed convection in viscoelastic flow due to a stretching sheet in a porous medium 16(6), 483-500, 2013, *Journal of Porous Media*, UNITED STATES OF AMERICA Impact factor: 1.05.

Q2 SJR 2019 1.04 H index 33, Publisher: Begell House Inc., United States

DOI: 10.1615/JPorMedia.v16.i6.10

62. P.N. VINAY KUMAR , **U.S. Mahabaleshwar**, & D. SONER NANDAPPA, Degree Equitable Energy Of Graphs, 2012, *Bull. Pure Appl. Math.* Vol. 6, No. 1 (2012), 1-8, Scientific Publishers (India), Jodhpur.

DOI:

63. Vinaykumar P.N. U S Mahabaleshwar & Nandappa Partially balanced incomplete block designs associated with minimum perfect dominating sets of Clebsch graph,, *International journal of Applied Mathematics and computation*, 4(1) 39-48, 2012 NEW DELHI.

DOI:

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DOI: <https://doi.org/10.5402/2012/782369>

65. Mamaloukas C, Subhas abel M., **U.S. Mahabaleshwar**, and Tawade J.V., On effects of a transverse magnetic field on an UCM fluid over a stretching sheet, *International Electronic Journal of Pure and Applied Mathematics*, Volume 1 No. 1 2010, 85-92, **Impact Factor: 2.13.**

DOI:

66. M. Al-Sammarraee, Andrew Chan and S.M.Salim, **U.S. Mahabaleshwar**, Large-eddy simulations of particle sedimentation in a longitudinal sedimentation basin of a water treatment plant. Part I: Particle settling performance *Chemical Engineering Journal*, 152(2-3), 307-314, UNITED STATES OF AMERICA, **Impact Factor: 8.335.**

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67. **U.S. Mahabaleshwar** , External regulation of convection in a weak electrically conducting non-Newtonian liquid with G-jitter, *Journal of Magnetism and Magnetic Materials* Volume 320, Issue 6, March 2008, Pages 999-1009, THE NETHERLANDS, **Impact Factor: 2. 683.**

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DOI: <https://doi.org/10.1016/j.jmmm.2007.10.005>

68. **U.S. Mahabaleshwar** ,Effect of temperature and gravity modulations on the onset of magneto-convection in weak electrically conducting liquids with internal angular momentum, *International Journal of Engineering Science*, 2007, Volume 45, Issues 2-8, 525-540. UNITED STATES OF AMERICA, **Impact Factor: 9.052**.

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DOI: [10.1016/j.ijengsci.2007.03.015](https://doi.org/10.1016/j.ijengsci.2007.03.015)

69. P. G. Siddheshwar, **U.S. Mahabaleshwar**, Effects of radiation and heat source on MHD flow of a viscoelastic liquid and heat transfer over a stretching sheet, *International Journal of Nonlinear Mechanics*, 2005, Volume 40, 807-820. UNITED STATES OF AMERICA, **Impact Factor: 2.225 cited 196**.

Q1 SJR 2019 0.84 H index 83, Publisher: Elsevier , United Kingdom

DOI: <https://doi.org/10.1016/j.ijnonlinmec.2004.04.006>

c) International Conference

1. Some effects of viscous dissipation and heat source/sink on MHD heat transfer over an unsteady stretching sheet, 9TH Hellenic European Conference On Computer Mathematics And Its Applications September 24-26, 2009 Athens University of Economics and Business 76 Patision Street, Athens 10434, Hellas, GREECE.(Conference Paper).
2. Attended and presented a paper entitled “Generalized Crane flow and nanofluid driven by stretching/shrinking sheet in the presence of magnetic field and suction/injection” to be held at First International Conference on Mmicro & Nanofluidics fundamentals and applications,18-21 may 2014, **University of Twente - The Netherlands**

Book Published / Book Chapters Published:

3. A viscoelastic fluid due to a nonlinear accelerating elastic sheet, Advances in Rheology, Nova Science Publishers, UNITED STATES OF AMERICA, 2017, Chapter-12, p381 -408.
4. Thermal radiation effect on fully developed laminar mixed convection flow in a vertical porous stratum by using differential transform method, Book Chapter, Nova Science Publishers, UNITED STATES OF AMERICA, 2017, Chapter-123, pp 409 -431 with M B Patil,
5. Effect of partial slip viscous flow over a stretching sheet with suction/injection in a porous medium, Porous Media: Theory, Properties, and Applications, Nova Science Publishers, Editor: Doris Wolfe. Chapter 5, pages 165-180, 2016, ISBN 978-1-63485-474-0, UNITED STATES OF AMERICA.
6. Effect of first order chemical reaction in a vertical double passage channel saturated with porous medium, Porous Media: Theory, Properties, and Applications, Nova Science Publishers, Editor: Doris Wolfe. Chapter 4, pages 125-164, 2016, ISBN 978-1-63485-474-0, UNITED STATES OF AMERICA.
7. Analytical solution of a Walters' liquid B flow over a linear stretching sheet in a porous medium. In Zhao, Changying (Ed.) Focus on Porous Media Research. NOVA Science Publishers, Inc, New York, pp. 121-130. UNITED STATES OF AMERICA, 2013 (with Saha, Suvash C.).

Research Guidance Details (MPhil/PhD):

Sl.No	Name of the Scholar	University	Registration month & Year	MPhil/PhD	Research Area
1.	Mr. Nagaraju K.R. (Part time)	Visvesvaraya Technology University (VTU)	06.11.2015	Ph.D.	Fluid Dynamics (On going)
2.	Mrs. K.M. Manjula (Part time)	Visvesvaraya Technology University (VTU)	27.12.2017	Ph.D.	Fluid Dynamics (On going)
3.	T. Anusha (Full time)	Davangere University	14.1.2020	Ph.D.	Fluid Dynamics (On going)
4.	K, N, Sneha Full time	Davangere University	14.1.2020	Ph.D.	Fluid Dynamics (On going)
5.	Vishalakshi A. B. Full time	Davangere University	14.1.2020	Ph.D.	Fluid Dynamics (On going)
6.	Rekha M.B. Full time	Davangere University	14.1.2020	M.Phil.	Fluid Dynamics Completed

Conference/ Workshops/Trainings attended/organized:

International/National Conferences:

1. Attended and presented in the 46th Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM) held at Regional Engineering College, Hamirpur, Himachal Pradesh, India during December 19 – 22, 2001 and presented the paper entitled “Free convection in MHD viscoelastic fluid flow over a stretching with of radiation”.
2. Attended in the “Second SERC school On mathematical modelling of atmospheric air pollution”, held at UGC – DSA Centre in Fluid Mechanics, Department of Mathematics, Bangalore University, Central College Campus, Bangalore – 560 001 during May 21 – June 22, 2002.
3. Attended and presented in the “National Seminar on Recent Advances in Fluid Mechanics” organized by Department of Mathematics, Gulbarga University during September 11 - 12, 2002 and presented a paper entitled “Effect of variable heat flux and magnetic fluid on the flow of a weak electrically conducting viscoelastic fluid flow over a stretching sheet”.
4. Attended in the International Conference on “Frontiers of Plasma Physics and Technology” held at Bangalore, India.
5. Attended and presented in the 47th Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM) held at Indian Institute of Technology, Guwahati, Assam, India during December 23 – 26, 2002 and presented the paper entitled “Effects of variable heat flux on the hydromagnetic flow of a viscoelastic fluid due to a horizontal stretching plate”.
6. Attended and presented in the 90th Session of Indian Science Congress held at Bangalore University, Bangalore, Karnataka during January 03 – 07, 2003, a paper entitled presented “Effect of variable heat flux and magnetic fluid on the flow of a weak electrically conducting viscoelastic fluid over a stretching sheet in a porous medium”.
7. Attended and presented in the Symposium on Advances in Fluid Mechanics (SAFM) organized by Jawaharlal Nehru Centre for Advanced Scientific research (JNCASR) and Department of Aerospace Engineering, I.I.Sc. Bangalore during July 24 – 25, 2002, and presented a paper entitled “Flow and heat transfer over a quadratically stretching sheet”.
8. Attended in the “Third serc school On Mathematical Modelling of Atmospheric Air Pollution”, held at UGC – CAS Centre in Fluid Mechanics, Department of Mathematics, Bangalore University, Central College Campus, Bangalore – 560 001 during December 1 – 30, 2003.
9. Attended the “International Conference on Nonlinear Phenomena” organized by the Department of Mathematics, Indian Institute of Science, Bangalore, India during January 05 – 10, 2004 .
10. Attended and presented in the “National Conference Advances in Fluid Mechanics” organized by Department of Mathematics, Gulbarga University during February 05 - 06, 2004 and

presented a paper entitled “Effects of radiation and heat source on MHD flow of a viscoelastic liquid and heat transfer over a stretching sheet” .

11. Attended “International Symposium on Advances in Fluid Mechanics” UGC – CAS Centre in Fluid Mechanics, Department of Mathematics, Bangalore University, Central College Campus, Bangalore – 560 001 during June 21 – 22, 2004.
12. Attended and presented in the “International Conference on Mathematical Fluid Dynamics” organized by the Department of Mathematics and Statistics, University of Hyderabad, India during December, 02 – 07, 2004 and presented the paper entitled “Analytical solution of the autonomous non-linear boundary value problem arising from the stretching sheet boundary layer equations”.
13. Attended “Two Days Symposium on Recent Trends in Fluid Mechanics”, conducted by UGC-Centre for advanced studies in Fluid Mechanics, Department of Mathematics, Bangalore University, Bangalore during December, 10 - 11, 2004.
14. Attended and presented in the “National Conference on Recent Trends In Applied Mathematics ” organized by the Department of Mathematics Pondicherry University PG Centre, Pondicherry, India during February, 17 – 18, 2005 and presented the paper entitled “MHD flow and heat transfer in a fluid with memory – an analytical approach”.
15. Attended and presented in the “International Conference in Applied Mathematics” organized by Department of Mathematics, Gulbarga University, India, during February 24 - 26, 2005 and presented a paper entitled “Combined effect of time-periodic body force and boundary temperature on magneto-convection in weak electrically conducting Newtonian liquids”.
16. Attended “Instructional Design and delivery” organized by R V College of Engineering, Bangalore, India, during July 31st – August 5, 2006.
17. Attended and presented in the and presented the 52th Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM) held at B.N.M. Institute of Technology, Bangalore, Karnataka, India during December 14 – 17, 2007 and presented the paper entitled “ An analytical study of a weakly non-linear dynamics of a viscoelastic liquid around a flexible sheet undergoing quadratic stretching.
18. My collaborator Chan, A presented a paper entitled “Magnetohydrodynamics of viscoelastic fluid over a stretching surface with suction within a porous medium” with Chan, A., & Siddheshwar, P.G. 2009, Proceedings of the 2009 Joint ASCE-ASME-SES Conference on Mechanics and Materials held in Blacksburg, 24th – 27th June 2009, edited Puri, I.K. & Hajj, M.R., no. 839. Blacksburg, VirginiaTech. United States of America.
19. My collaborator Mamaloukas C , presented “Some effects of viscous dissipation and heat source/sink on MHD heat transfer over an unsteady stretching sheet” with Mamaloukas C, Subhas abel M. and Tawade J.V., 9TH Hellenic European Conference On Computer

Mathematics And Its Applications September 24-26, 2009 Athens University of Economics and Business 76 Patision Street, Athens 10434, Hellas, GREECE.

20. Attended and presented in the 54th Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM) held at Netaji Subhas Institute of Technology, New Delhi, India during December 18 – 21, 2009 and presented the paper entitled “An analytical study of a weakly two-dimensional non-linear dynamics of a Walters’ liquid around a flexible sheet undergoing quadratic stretching.
21. Attended and presented a paper entitled “Picard method of solution for the stretching sheet problem in a Boussinesq-Stokes suspension”with Siddheshwar, P.G. 2010, International Conference on Mathematical Modeling and Nonlinear Equations, held at B.N.M. Institute of Technology, Bangalore, Karnataka, INDIA during December 14 – 17, 2010.
22. Attended and presented in the “International Workshop on “Solving nonlinear Polynomial Equations”, held at Indian Institute of Science, IISC Mathematics Initiative, Department of Mathematics, Bangalore- 560 012, INDIA during June 07 to June 18, 2010.
23. Attended the “Advanced Training Mathematics School for Lecturers in Partial Differential Equations” Supported by National Board for Higher Mathematics, 13 - 24 December 2010, TIFR Centre For Applicable Mathematics, Bangalore -560 065.
24. Attended the International Conference on recent trends in Nonlinear Elliptic Partial Differential Equations, 6-8 January, 2011, TIFR Centre For Applicable Mathematics, Bangalore -560 065.
25. Attended and presented a paper entitled “Analytical Solution of the non-linear differential equation arising in fluid flow problem” co-author R. J. Brown in the International Conference on Fluid Dynamics & its Applications to be held at B N M Institute of Technology, 27th Cross, 12th Main Road, Banashankari II Stage, Bangalore – 560 070, INDIA during July 20 – 22, 2011.
26. Attended and presented a paper entitled “Combined effect of gravity and temperature modulations on double diffusive porous medium”, International Conference on “Emerging Trends in Fluid Mechanics and Graph Theory” to be held at Christ University, Bangalore during 16 - 18 August 2012, Bangalore, India.
27. Attended the “Advanced Workshop & Symposium on Stability Analysis of Differential Equations with Applications to Fluid Flow Problems (SADEAFFP-2014).” Sponsored by DST, during March 20-24, 2014, Department of Mathematics & Statistics, IIT Kanpur, Kanpur – 208016, UP, India.
28. Attended and presented a paper entitled “Generalized Crane flow and nanofluid driven by stretching/shrinking sheet in the presence of magnetic field and suction/injection” to be held at First International Conference on Mmicro & Nanofluidics fundamentals and applications,18-21 may 2014 University of Twente - The Netherlands.

29. Attended and Invited speaker a paper entitled “Fourth order highly nonlinear differential equation arising in fluid dynamics” to be held at International Conference on Mathematical Sciences (ICMS-2014) during 17th -19th July 2014, Sathyabama University, Chennai, India.
30. Special lecturer on “Highly nonlinear differential equation arising in fluid mechanics” to be held Mechanical engineering, Shizuoka University, Hamamatsu, Japan, during October 22, 2014.
31. Attended the “The Thermal Engineering Conference 2014” organized by the Shibaura Institute of Technology, Tokyo, Japan, during November 8-9, 2014.
32. Attended the “14th International Takayagi Kenjiro Symposium” organized by the Research Institute of Electronic, Shizuoka University, Hamamatsu, Japan, during November 11-12, 2014.
33. Attended the “2nd International Conference on Nano Electronics” organized by the Research Institute of Electronic, Shizuoka University, Hamamatsu, Japan, during November 24-26, 2014.
34. Attended the “21st Heat Transfer Colloquium” organized by the Department of Aerospace Engineering, Nagoya University, Japan, during December 14, 2014.
35. Special lecturer on “Exact Solutions of the Blasius and Falkner equations arising in boundary layer flows” to be held Mechanical engineering, Shizuoka University, Hamamatsu, Japan, during December 10, 2014.
36. Attended and presented a paper entitled “An MHD Newtonian fluid flow of a nanofluid over a stretching sheet with Navier’s slip and suction ” to be held at December 16th- 18th, 2015, Organized by Centre for Nanoscience & technology, Anna University, Chennai.
37. Attended and presented a paper entitled Taylor series solution of the classical Blasius equation to be held at International Conference on Differential Geometry analysis and fluid mechanics, 4-5 February 2016, Kuvempu University, Shankaragatta, Shimogga.
38. Attended the “One day National symposium on interfaith dialogue” organized by the UGC-Human Resource development centre (DRDC), University of Mysore, during February 29th, 2016.
39. Attended and presented a paper entitled “Applications to haemodynamics for the flow of Carbon nanotubes suspended nanoliquids due to a stretching sheet ” to be held at March 22th- 24th, 2017, Organized by Centre for Nanoscience & technology, Anna University, Chennai.
40. Attended and presented a in the International Conference on Green Trends in Mechanical Sciences (GTMES-2018, to be held at October 3rd -5th, 2018, Organized by Malnad College of Engineering, Hassan, Karnataka, India.
41. Attended and presented a paper entitled Stretching sheet problems revisited to be held at International Conference on Mathematics and its Applications (ICMA-2020, 28-29 February 2020, Bangalore University, Bangalore.
42. Attended and presented a paper entitled Slips effects CNTson inclined MHD flow due to accelerated surface: Applications to Haemodynamics to be held at National Conference on Mathematics and its Applications, 13-14 March 2020, Kuvempu University, Shankaragatta, Shimogga.

Workshops/Seminars/Symposium Attended:

1. Attended the “Second SERC school On mathematical modelling of atmospheric air pollution”, held at UGC – DSA Centre in Fluid Mechanics, Department of Mathematics, Bangalore University, Central College Campus, Bangalore – 560 001 during May 21 – June 22, 2002.
2. Attended Symposium on Advances in Fluid Mechanics (SAFM) organized by Jawaharlal Nehru Centre for Advanced Scientific research (JNCASR) and Department of Aerospace Engineering, I.I.Sc. Bangalore during July 24 – 25, 2003, and presented a paper entitled “Flow and heat transfer over a quadratically stretching sheet”.
3. Attended the “Third serc school On Mathematical Modelling of Atmospheric Air Pollution”, held at UGC – CAS Centre in Fluid Mechanics, Department of Mathematics, Bangalore University, Central College Campus, Bangalore – 560 001 during December 1 – 30, 2003.
4. Attended “International Symposium on Advances in Fluid Mechanics” UGC – CAS Centre in Fluid Mechanics, Department of Mathematics, Bangalore University, Central College Campus, Bangalore – 560 001 during June 21 – 22, 2004.
5. Attended “Two Days Symposium on Recent Trends in Fluid Mechanics”, conducted by UGC-Centre for advanced studies in Fluid Mechanics, Department of Mathematics, Bangalore University, Bangalore during December, 10 - 11, 2004.
6. Attended the “International Workshop on “Solving nonlinear Polynomial Equations”, held at Indian Institute of Science, IISC Mathematics Initiative, Department of Mathematics, Bangalore- 560 012, INDIA during June 07 to June 18, 2010.
7. Attended the “Advanced Training Mathematics School for Lecturers in Partial Differential Equations” Supported by National Board for Higher Mathematics, 13 - 24 December 2010, TIFR Centre For Applicable Mathematics, Bangalore -560 065.
8. Attended the “Advanced Workshop & Symposium on Stability Analysis of Differential Equations with Applications to Fluid Flow Problems (SADEAFFP-2014).” Sponsored by DST, during March 20-24, 2014, Department of Mathematics & Statistics, IIT Kanpur, Kanpur – 208016, UP, India.

Training Programme :

1. Attended and presented in the Symposium on Advances in Fluid Mechanics (SAFM) organized by Jawaharlal Nehru Centre for Advanced Scientific research (JNCASR) and Department of Aerospace Engineering, I.I.Sc. Bangalore during July 24 – 25, 2002, and presented a paper entitled “Flow and heat transfer over a quadratically stretching sheet”.

2. Attended in the “Third SERC school On Mathematical Modelling of Atmospheric Air Pollution”, held at UGC – CAS Centre in Fluid Mechanics, Department of Mathematics, Bangalore University, Central College Campus, Bangalore – 560 001 during December 1 – 30, 2003.
3. Attended and presented in the “International Workshop on “Solving nonlinear Polynomial Equations”, held at Indian Institute of Science, IISC Mathematics Initiative, Department of Mathematics, Bangalore- 560 012, INDIA during June 07 to June 18, 2010.
4. Attended the “Advanced Training Mathematics School for Lecturers in Partial Differential Equations” Supported by National Board for Higher Mathematics, 13 - 24 December 2010, TIFR Centre For Applicable Mathematics, Bangalore -560 065.
5. Attended the International Conference on recent trends in Nonlinear Elliptic Partial Differential Equations, 6-8 January, 2011, TIFR Centre For Applicable Mathematics, Bangalore -560 065.
6. Attended the “Advanced Workshop & Symposium on Stability Analysis of Differential Equations with Applications to Fluid Flow Problems (SADEAFFP-2014).” Sponsored by DST, during March 20-24, 2014, Department of Mathematics & Statistics, IIT Kanpur, Kanpur – 208016, UP, India.

Achievements/Awards / Abroad visit / Professional Membership

Achievements	
I	Achievements
1	Chosen for outstanding Scientists, Dictionary of International Biography, 38 th edition by International Biographical Centre (IBC), Cambridge, England, UK, 2017.
2	Recipient author of TOP25 Hottest article in the area of Fluid Dynamics in the reputed International Journal of Non-Linear Mechanics, Volume40, Issue 6, July 2005, pp. 807-820, United States of America
3	The nomination and chosen for inclusion in the best-known and prestigious biographical resource for global achievers in Marquis Who’s Who, in the World 26th edition for scientific contribution.
4	Mother Teresa Gold Medal Award for outstanding individual achievement in higher Education 2012
5	Young Scientist Award 2014, Government of Karnataka.
6	Most Cited Paper 2005-06 (International Journal of Non-Linear Mechanics, Elsevier Ltd. USA).
II	Awards
1	Mother Teresa Gold Medal Award for outstanding individual achievement in higher Education 2012

2	Young scientist award 2014, Government of Karnataka.
3	Travel grant for attend & present research paper in international conference on micro & nano fluidics: Fundamentals and Applications, 18-21 May 2014, University of Twente, THE NETHERLANDS.
4	Asia Bridge Fellowship, University of Shizuoka , 2014-15, JAPAN
5	Summer school on Fluid Dynamics, FRANCE, 2015-2016, co-organised by University of Cambridge, UK.
6	University of Cambridge, UK - Hamied Visiting Lecture Scheme, 2016-17.
7	University of Warwick, 2017-2018
8	Europ commission , University of Watica, Greece 2019-2020
III	Abroad visit
1.	Shanghai Jiao Tong University, China, 2005-2006
2.	University of Nottingham, Malaysia Campus, Malaysia, 2008-2009
3.	University of Twente, The Netherlands, 2014-2015.
4.	University of Shizuoka, Japan, 2014-2015
5.	Shibaura Institute of Technology, Tokyo, 2014-2015
6.	Nagoya University, Japan, during December 14, 2014
7.	Ecole Polychnic, Summer school on Fluid Dynamics, FRANCE, 2015-2016, co-organised by University of Cambridge.
8.	University of Cambridge – 2016-17, UK
9.	Oxford University – 2016-17, UK
10.	University of Warwick – 2017-18, UK
IV	Professional Membership
1	Member of the International Association of Engineers (IAENG), HONG KONG
2	Member of the American Institute of Chemical Engineers (AIChE), USA
3	Member of the International Linear Algebra Society (ILAS) USA.

INTERNATIONAL/ NATIONALRESEARCH COLLABORATORS

Sl. No.	Name	Organization	Country
1	Professor Ioan M. Pop	Department of Mathematics, Faculty of Mathematics and Computer Science, Babes_-Bolyai University, 400084 Cluj-Napoca, Romania	Romania/Norway
2	Professor Antony A. Hill	Department of Biological, Biomedical and Analytical Sciences, University of the West of England, Bristol BS16 1QY, United Kingdom	United Kingdom
3	Professor Dumitru Baleanu	Department of Mathematics, Ankaya University, Faculty of Art and Science, Balgat 0630, Ankara, TURKEY & Institute of Space Science, Magurele-Bucharest, ROMANIA	Turkey/Romania
4	Professor Giulio Lorenzini	Department of Industrial Engineering, University of Parma, Parco Area delle Scienze 181/A, 43124 Parma, Italy	Italy
5	Professor Mikhail Sheremet	Department of Theoretical Mechanics, Tomsk State University, 36 Lenin Avenue, Tomsk 634050, Russia.	Russia
6	Professor I.E. Sarris	Department of Energy Technology, Technological & Educational Institute of Athens, 17 Ag. Spyridona Str., 12210 Athens, GREECE	Greece
7	Professor Andrew T. Chan	Department of Chemical and Environmental Engineering, University of Nottingham (Malaysia Campus), Jalan Broga, 43500 Semenyih, Selangor Darul Ehsan, Malaysia	Malaysia/Hongkong
9	Professor M.M. Rashidi	Mechanical Engineering Department, Bu-Ali Sina University, Hamedan, IRAN	Iran/China
10	Dr. N. Rahimzadeh	Mechanical Engineering Department, Bu-Ali Sina University, Hamedan, IRAN.	Iran
11	Professor O. Anwar Bég,	Gort Engovation Research (Propulsion and Biomechanics), 15 Southmere Avenue, Bradford, West Yorkshire BD7 3NU, UK.	United Kingdom
12	Professor H. I. Andersson	Department of Energy and Process Engineering	Sweden

		Norwegian University of Science and Technology,7491 Trondheim, NORWAY	
13	Professor O. D. Makinde	Institute for Advance Research in Mathematical Modelling and Computations Cape Peninsula University of Technology P. O. Box 1906, Bellville 7535, SOUTH AFRICA	South Africa
14	Dr. Saha, Suvash C	School of Chemistry, Physics & Mechanical Engineering, Queensland University	Australia
15	Dr. M. Al-Sammarrae	Department of Chemical and Environmental Engineering, University of Nottingham (Malaysia Campus), Jalan Broga, 43500 Semenyih, Selangor Darul Ehsan, Malaysia	Malaysia
16	Dr. S.M.Salim	School of Science & Engineering, J13, Fulton Building, University of Dundee, Dundee, DD1 4HN	United Kingdom
17	Dr. Mamaloukas	Athens University of Economics and BusinessDept. of Informatics, 76 Patision Str, 10434 Athens, Greece	Greece
18	Professor Antonio Mastroberardino	School of Science, Penn State Erie, The Behrend College, Erie, Pennsylvania 16563-0203, USA	U.S.A.
19	Professor J-L Curiel Sosa	Mechanical Engineering, University of Sheffield, Portobello Centre, B66, Sheffield,S13JD,UK	United Kingdom
20	Professor N. Laraqi	Laboratoire TIE, Department GTE, Universite Paris 10, EA 4415, 50 Rue de Sevres, F92410 Ville d'Avray, FRANCE	France
21	Professor		
22	Dr Mohaddeseh Mousavi Nezhad	Civil Research Group, School of Engineering, University of Warwick, Warwick CV4 7AL, UK	United Kingdom
23	Professor Paul Hiroshi S.	Institute of Physics "Gleb Wataghin" State University of Campinas, Campinas, SP, Brazi	Brazil
24	Professor Ali Jawad Chamkha	Mechanical Engineering Department, Prince Sultan Endowment for Energy and	Saudi Arabia

		Environment, Prince Mohammad Bin Fahd University, Al-Khobar 31952, Saudi Arabia	
25	Professor Enrico Lorenzini	<i>Alma Mater Studiorum-University of Bologna, viale Risorgimento 2, Bologna 40136, ITALY</i>	Italy
26	Professor Shaowei Wang	<i>Department of Engineering Mechanics, School of Civil Engineering, Shandong University, Jinan 250061, CHINA</i>	China
27	Professor Igor Pazanin	Department of Mathematics, Faculty of Science, University of Zagreb, Croatia	Croatia
28	Dr. Marko Radulović	Department of Mathematics, Faculty of Science, University of Zagreb, Croatia	Croatia
29	Dr. Francisco Javier Suárez-Grau	Departamento de Ecuaciones Diferenciales y Análisis Numérico, Facultad de Matemáticas, Universidad de Sevilla,	Spain
30	Dr. N. A. Kelson	HPC and Research Support Group Queensland University of Technology (QUT)Brisbane Australia	Australia

Personal Details		
Gender	Male	
Date of Birth	01.06.1975	
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	Department of Mathematics Davangere University, Shivaganotri, Davangere 577 007, INDIA	Ulavathi Post Hagaribommanahalli Tq. Bellary Dist. 583 212
Electronic address	Telephone- Mobile : +91 - 99453 07143 E mail : ulavathi@gmail.com u.s.m@davangereuniversity.ac.in Website: Google Scholar Link : https://scholar.google.co.in/citations?user=Wfqq8CgAAAAJ&hl=en ResearchGate Link : https://www.researchgate.net/profile/U_Mahabaleshwar	