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Expertise

Applied Mathematics

Numerical Methods for Partial Differential Equations, Bio-Fluid Mechanics, Parallel Numerical Algorithms and High, Performance Computation, Mathematical Modeling and Simulation, Biomedical Imaging, AI/ML/DL Methods for and Applications, Cardiac Electric Activity, Convection in Porous Media, Numerical Linear Algebra,

Work experience

1. Indian Institute of Technology Kanpur 2015 — Present

Professor (HAG)
Kanpur Nagar

Education

1. Ph.D -

Honours and Awards

Fellow of Indian Association of Mathematical Modelling and

1. Simulation - 2018
ISMMACS
2. Fellow of National Academy of Sciences (FNaSc) - 2009
National Academy of Sciences, Allahabad
3. FNR Visiting Scientist - 2006
Luxembourg National Research Fund
4. Chandna Award for Applied Mathematics - 2004
Canadian World Education Foundation
5. Erasmus Mundus Fellowship - 2004
EMA
6. FNR Visiting Scientist - 2004
Luxembourg National Research Fund
7. Visiting Professor - 2003
EPFL, Switzerland
8. RIKEN Visiting Scientist - 2001
RIKEN, Japan
9. RIKEN Visiting Scientist - 2000
RIKEN, Japan
10. University Gold Medal for Mathematics - 1987
SSSIHL, Prasanthinilayam, AP
11. University Academic UG-Proficiency Award for Sciences - 1985
SSSIHL, Prasanthinilayam, AP
12. AP State HSS MERIT SCHOLARTOP for ranking in top 50 - 1982
APSCBOE
13. AP Board State Merit Scholarship ranking in top 25 - 1980
AP SSBOE
14. Best Student Award - 1980
BZHS, Chittoor, AP

Publication

1. Mixed convection in a partially and differentially heated cavity – a finite volume complete flux analysis

Rathish Kumar B.V.;Pandey C.

International Journal of Numerical Methods for Heat and Fluid Flow, Volume , Year 2025

2. Punctured window based multiscale line detector for efficient segmentation of retinal blood vessels

Makkar V.;Tewary A.;Rathish Kumar B.V.;Pandey R.K.

Computers in Biology and Medicine, Volume 191, Year 2025

3. Novel Finite-Volume Complete Flux Approximation Schemes for the Incompressible Navier-Stokes Equations

Pandey C.;ten Thije Boonkamp J.H.M.;Rathish Kumar B.V.

International Journal for Numerical Methods in Fluids, Volume 97, Year 2025, Pages 409-425

4. Superconvergent scheme for a system of green Fredholm integral equations

Kumar R.;Kant K.;Kumar B.V.R.

Applied Numerical Mathematics, Volume 207, Year 2025, Pages 254-271

5. Fractional nanofluid flow dynamics of thermal transport and entropy generation in a wavy porous enclosure containing a hot circular cylinder

Deepika Parmar;S. V. S. S. N. V. G. Krishna Murthy;Kambiz Vafai;Khalil Khanafer;B. V. Rathish Kumar;Sumant Kumar

Physics of Fluids, Year 2025

6. A variational multiscale stabilized finite element method for double diffusive incompressible flow with application to mixed convection in a heated staggered cavity under magnetic field

Sahoo D.K.;Rathish Kumar B.V.

International Journal for Computational Methods in Engineering Science and Mechanics, Volume 26, Year 2025, Pages 140-154

7. A colour image segmentation method and its application to medical images

Halim A.;Kumar B.V.R.;Niranjan A.;Nigam A.;Schneider W.;Ahuja C.K.;Pathak S.K.

Signal, Image and Video Processing, Volume 18, Year 2024, Pages 1635-1648

8. Effect of rheological models on pulsatile hemodynamics in a multiply afflicted descending human aortic network

Kumar S.;Kumar B.V.R.;Rai S.K.;Shankar O.

Computer Methods in Biomechanics and Biomedical Engineering, Volume 27, Year 2024, Pages 116-143

9. Multi-physics study on double-diffusion convective flow in an inverted T-

shaped porous enclosure: ANN-based parametric estimation

Kumar S.;Murthy S.V.S.S.N.V.G.K.;Kumar B.V.R.;Parmar D.

Physics Letters, Section A: General, Atomic and Solid State Physics, Volume 518, Year 2024

10. Thermo-magnetic radiative flow in porous enclosure with deep-learning parameter estimation

Kumar S.;Murthy S.V.S.S.N.V.G.K.;Kumar B.V.R.;Parmar D.

International Journal of Mechanical Sciences, Volume 276, Year 2024

11. Tertiary wake mode in flows past elliptic cylinders

Kumar D.;Kumar B.

European Journal of Mechanics, B/Fluids, Volume 106, Year 2024, Pages 130-136

12. A comprehensive review on CFD simulations of left ventricle hemodynamics: numerical methods, experimental validation techniques, and emerging trends

Soni P.;Kumar S.;Kumar B.V.R.;Rai S.K.;Verma A.;Shankar O.

Journal of the Brazilian Society of Mechanical Sciences and Engineering, Volume 46, Year 2024

13. Computational study of aspect ratio and undulation effect on natural convection in an inverted T-shaped porous enclosure

Kumar S.;Krishna Murthy S.V.S.S.N.V.G.;Kumar B.V.R.

Numerical Heat Transfer; Part A: Applications, Volume , Year 2024

14. Superconvergent scheme for a system of Green nonlinear Fredholm integral equations

Kumar R.;Rathish Kumar B.V.

Applied Mathematics and Computation, Volume 479, Year 2024

15. Finite element analysis of a thermal non-equilibrium hybrid nanofluid model for natural convection in a complex porous enclosure

Dey S.;Rathish Kumar B.V.

Computers and Mathematics with Applications, Volume 169, Year 2024, Pages 177-194

16. Entropy generation in a partially heated hybrid nanofluid saturated wavy porous cavity

Barman, P. and Pentyala, S. R. and Rathish Kumar, B. V.

International Journal of Numerical Methods for Heat and Fluid Flow, Volume 34, Year 2024, Pages 1060-1086

17. Convective Heat Transport Analysis of Hybrid Nanofluid in an Inverted T-Shaped Porous Enclosure Under Various Locations of Circular Cylinder

Sumant and B. V. Rathish Kumar and S. K. Murthy and Deepika

ZAMM, Year 2024

18. Superconvergent Jacobi Spectral Methods for System of Volterra Integral Equations for Mixed Type Kernel

Rakesh Kumar and Kapil Kanth and B. V. Rathish Kumar

International Journal of Computer Mathematics, Year 2024

19. Modified Galerkin Method for Derivative Dependent Fredholm-Hammerstein Integral Equations of Second Kind
Kant K.;Das P.;Nelakanti G.;Kumar R.
Advances in Applied Mathematics and Mechanics, Volume 16, Year 2024, Pages 905-926
20. Fast rapidly convergent penetrable scattering computations
Paul J.;Pandey A.;Rathish Kumar B.V.;Anand A.
Advanced Modeling and Simulation in Engineering Sciences, Volume 11, Year 2024
21. Convective heat transfer enhancement in an inverted T-shaped porous enclosure through vertical varying circular cylinder
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Numerical Heat Transfer, Part B: Fundamentals, Volume 85, Year 2024, Pages 1236-1253
22. Double-diffusive convective flow of hybrid nanofluid in an inverted T-shaped porous enclosure: A numerical study
Kumar S.;Kumar B.V.R.;Krishna Murthy S.V.S.S.N.V.G.;Parmar D.
Numerical Heat Transfer; Part A: Applications, Volume 85, Year 2024, Pages 1456-1480
23. Variational multiscale stabilized finite element analysis of transient MHD Stokes equations with application to multiply driven cavity flow
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24. Variational multiscale stabilized FEM for cardiovascular flows in complex arterial vessels under magnetic forces
Sahoo D.K.;Rathi A.;Kumar B.V.R.
Computational and Mathematical Biophysics, Volume 12, Year 2024
25. Effect of Al₂O₃-Cu/Water Hybrid Nanofluid on Natural Convection in an Inverted T-Shaped Enclosure
Dey, Sangita and Rathish Kumar, B. V.
Journal of Nanofluids, Volume 13, Year 2024, Pages 394--406
26. Numerical simulation of entropy generation in thermo-magnetic convection in an inverted T-shaped porous enclosure under thermal radiation
Kumar S.;Rathish Kumar B.V.;Krishna Murthy S.V.S.S.N.V.G.;Parmar D.
International Journal of Numerical Methods for Heat and Fluid Flow, Volume 34, Year 2024, Pages 901-947
27. A deep learning-based numerical approach for the natural convection inside a porous media
Kumar, Sumant and Rathish Kumar, B. V. and Krishna Murthy, S. V. S. S. N. V. G.
International Journal of Advances in Engineering Sciences and Applied Mathematics, Volume 16, Year 2024, Pages 233--243
28. Entropy generation for thermo-magnetic fractional order convective flow in complex porous enclosures: a numerical study

29. ANN-based deep collocation method for natural convection in porous media

Kumar S.;Kumar B.V.R.;Murthy S.V.S.S.N.V.G.K.
Neural Computing and Applications, Volume 36, Year 2024, Pages 6067-6083
30. Entropy generation in a partially heated hybrid nanofluid saturated wavy porous cavity

Barman P.;Pentyala S.R.;Rathish Kumar B.V.
International Journal of Numerical Methods for Heat and Fluid Flow, Volume 34, Year 2024, Pages 1060-1086
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ZAMM Zeitschrift fur Angewandte Mathematik und Mechanik, Volume 104, Year 2024
32. PA-GAN: Parallel Attention Based Gan for Enhancement of FODF

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33. Bejan's heatline and mulitphysics analysis of double diffusive free convection in a doubly stratified non-Darcian porous enclosure with heat generation

Kumar V.;Krishna Murthy S.V.S.S.N.V.G.;Kumar B.V.R.
Numerical Heat Transfer, Part B: Fundamentals, Volume 83, Year 2023, Pages 243-275
34. A numerical method for MHD Stokes model with applications in blood flow

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35. A 3D Haar wavelet method for a coupled degenerate system of parabolic equations with nonlinear source coupled with non-linear ODEs

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36. Simplified Subgrid multiscale stabilized finite element method in the transient framework for Stokes equations

Chowdhury M.;Kumar B.V.R.
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37. Erratum to: "Numerical study of entropy generation in magneto-convective flow of nanofluid in porous enclosure using fractional order non-Darcian model" (Physics of Fluids (2023) 35 (097142) DOI: 10.1063/5.0169204)

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38. Time dependent subgrid multiscale stabilized finite element analysis of fully coupled transient Navier-Stokes-transport model
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39. The pulsatile 3D-Hemodynamics in a doubly afflicted human descending abdominal artery with iliac branching
Kumar S.;Rai S.K.;Kumar B.V.R.;Shankar O.
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40. An open loop 0D-3D modeling of pulsatile hemodynamics for the diagnosis of a suspected coronary arterial disease with patient data
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41. Study of unsteady non-Newtonian fluid flow behavior in a two-sided lid-driven cavity at different aspect ratios
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Journal of Non-Newtonian Fluid Mechanics, Volume 312, Year 2023
42. A priori and a posteriori error estimation for finite element approximation of advection-diffusion-reaction equation with spatially variable coefficients
Rathish Kumar, B. V. and Manisha
Journal of Applied \& Computational Mathematics, Year 2023
43. TrGANet: Transforming 3T to 7T dMRI using Trapezoidal Rule and Graph based Attention Modules
Jha R.R.;Kumar B.V.R.;Pathak S.K.;Bhavsar A.;Nigam A.
Medical Image Analysis, Volume 87, Year 2023
44. FINITE ELEMENT STUDY OF TRANSIENT MHD STOKES EQUATIONS AND MODELLING A DOUBLY DRIVEN CAVITY FLOW
RATHI, ANIL and SAHOO, DIPAK KUMAR and KUMAR, BV RATHISH and CHOWDHURY, MANISHA and DEY, SANGITA
Dynamic Systems and Applications, Volume 32, Year 2023, Pages 333--349
45. Approximation of Weakly Singular Non-Linear Volterra-Urysohn Integral Equations by Piecewise Polynomial Projection Methods Based on Graded Mesh
Ritu Nigam and Kapil Kant and B. V. Rathish Kumar and Gnaneshwar Nelakanti
Journal of Applied Analysis & Computation, Volume 13, Year 2023, Pages 1359--1387
46. Undersampled single-shell to MSMT fODF reconstruction using CNN-based ODE solver
Jha R.R.;Kumar B.V.R.;KPathak S.;Schneider W.;Bhavsar A.;Nigam A.
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47. TrGANet: Transforming 3T to 7T dMRI using Trapezoidal Rule and Graph

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Medical Image Analysis, Volume 87, Year 2023, Pages 102806

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Ranjeet Ranjan Jha and B.V. Rathish Kumar and Sudhir K. Pathak and Walter Schneider and Arnav Bhavsar and Aditya Nigam
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49. Influence of abdominal aortic aneurysm shape on hemodynamics in human aortofemoral arteries: A transient open-loop study

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50. Multiscale stabilized finite element computation of the non-Newtonian Casson fluid flowing in double lid-driven rectangular cavities

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Computers and Mathematics with Applications, Volume 143, Year 2023, Pages 57-72

51. Numerical study of entropy generation in magneto-convective flow of nanofluid in porous enclosure using fractional order non-Darcian model

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52. Double Diffusive Convective Flow Study of a Hybrid Nanofluid in an Inverted T-Shaped Porous Enclosure Under the Influence of Soret and Dufour Parameters

Kumar S.;Kumar B.V.R.;Murthy S.V.S.S.N.V.G.K.
ASME Journal of Heat and Mass Transfer, Volume 145, Year 2023

53. Multi-force effect on fluid flow, heat and mass transfer, and entropy generation in a stratified fluid-saturated porous enclosure

Kumar V.;Murthy S.V.S.S.N.V.G.K.;Kumar B.V.R.
Mathematics and Computers in Simulation, Volume 203, Year 2023, Pages 328-367

54. THERMO-FLUIDIC CONVECTIVE FLOW STUDY OF HYBRID NANOFUID IN AN INVERTED T-SHAPED POROUS ENCLOSURE UNDER UNIFORMLY ACTING MAGNETIC FIELD

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Journal of Porous Media, Volume 26, Year 2023, Pages 75-91

55. Finite element analysis of modified N-S equations coupled with energy transfer for hybrid nanofluid flow in complex domains

Dey S.;Rathish Kumar B.V.
Computers and Mathematics with Applications, Volume 150, Year 2023, Pages 37-53

56. Modeling and simulation of the potential indoor airborne transmission of SARS-CoV-2 virus through respiratory droplets

57. Entropy generation in a chemically and thermally reinforced doubly stratified porous enclosure in a magnetic field
Kumar V.;Krishna Murthy S.V.S.S.N.V.G.;Rathish Kumar B.V.
Physics of Fluids, Volume 34, Year 2022
58. Steady flow past elliptic cylinders with blockage effects
Kumar D.;Kumar B.
Physics of Fluids, Volume 34, Year 2022
59. Non Uniform Weighted Extended B-Spline Finite Element Analysis of Non Linear Elliptic Partial Differential Equations
Chakraborty A.;Kumar B.V.R.
Differential Equations and Dynamical Systems, Volume 30, Year 2022, Pages 485-497
60. Cardiac electro-mechanical activity in a deforming human cardiac tissue: modeling, existence-uniqueness, finite element computation and application to multiple ischemic disease
Pargaei M.;Kumar B.V.R.;Pavarino L.F.;Scacchi S.
Journal of Mathematical Biology, Volume 84, Year 2022
61. A PDE Based Image Segmentation Using Fourier Spectral Method
Vijayakrishna R.;Kumar B.V.R.;Halim A.
Differential Equations and Dynamical Systems, Volume 30, Year 2022, Pages 469-484
62. VRfRNet: Volumetric ROI fODF reconstruction network for estimation of multi-tissue constrained spherical deconvolution with only single shell dMRI
Jha R.R.;Pathak S.K.;Nath V.;Schneider W.;Kumar B.V.R.;Bhavsar A.;Nigam A.
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63. A PDE Based Image Segmentation Using Fourier Spectral Method
Vijayakrishna, R. and Kumar, B. V. R. and Halim, A.
Differential Equations and Dynamical Systems, Volume 30, Year 2022, Pages 469--484
64. LFANET: Transforming 3T Single-Shell to 7T Multi-Shell DMRI Using Deep Learning Based Leapfrog and Attention
Jha R.R.;Pathak S.K.;Schneider W.;Kumar B.V.R.;Bhavsar A.;Nigam A.
Proceedings - International Symposium on Biomedical Imaging, Volume 2022-March, Year 2022
65. The effect of surfactant on the drag and wall correction factor of a drop in a bounded medium
Raturi S.;Kumar B.V.R.
Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences, Volume 77, Year 2022, Pages 339-352
66. Linear stability analysis of convection in a solid partitioned

inhomogeneous multilayered porous structure

Rathish Kumar B.V.;Pathak P.

Physics of Fluids, Volume 34, Year 2022

67. Variational multiscale stabilized finite element analysis of non-Newtonian Casson fluid flow model fully coupled with Transport equation with variable diffusion coefficients

Rathish Kumar B.V.;Chowdhury M.

Computer Methods in Applied Mechanics and Engineering, Volume 388, Year 2022

68. Convergence Analysis for Linear Fredholm and Nonlinear Fredholm Hammerstein Integral Equations

Kant, Kapil and Kumar, Rakesh and Kumar, B. V. Rathish

Journal of Basic \& Applied Sciences, Volume 18, Year 2022, Pages 158--165

69. Modified Galerkin method for Volterra-Fredholm-Hammerstein integral equations

Das P.;Kant K.;Kumar B.V.R.

Computational and Applied Mathematics, Volume 41, Year 2022

70. Enhancing HARDI reconstruction from undersampled data via multi-context and feature inter-dependency GAN

Jha R.R.;Gupta H.;Pathak S.K.;Schneider W.;Rathish Kumar B.V.;Bhavsar A.;Nigam A.

Proceedings - International Symposium on Biomedical Imaging, Volume 2021-April, Year 2021, Pages 1103-1106

71. Finite Element Modelling and Analysis of Free Vibration of a Square Plate with Side Crack

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72. On the Existence of Approximate Solution of Fredholm Integral Equation of the First Kind by Band-Limited Scaling Function

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73. Entropy and multiphysics analysis in a viscous dissipative non-Darcian porous enclosure

Kumar V.;Krishna Murthy S.V.S.S.N.V.G.;Kumar B.V.R.

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74. Parameter identification in multidimensional hyperbolic partial differential equations using wavelet collocation method

Priyadarshi G.;Rathish Kumar B.V.

Mathematical Methods in the Applied Sciences, Volume 44, Year 2021, Pages 9079-9095

75. Effect of insoluble surfactants on the motion of Reiner-Rivlin fluid sphere in a spherical container with Newtonian fluid

Raturi S.;Kumar B.V.R.

76. Non-conforming least-squares spectral element method for Stokes equations on non-smooth domains

Mohapatra S.;Dutt P.;Rathish Kumar B.V.;Gerritsma M.I.

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77. A $\text{TV-L}^2-\text{H}^{-1}$ PDE model for effective denoising

Halim A.;Kumar B.V.R.

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78. Wavelet Galerkin Methods for Higher Order Partial Differential Equations

Rathish Kumar, B. V. and Priyadarshi, G.

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79. A Priori and A Posteriori Error Estimation for Finite Element Approximation of Advection-Diffusion-Reaction Equation with Spatially Variable Coefficients

B. V. Rathish Kumar and Manisha

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80. HLGNet: Hierarchical and Lightweight Graph Siamese Network with Triplet Loss for fMRI-based Classification of ADHD

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82. Wavelet Galerkin Methods for Higher Order Partial Differential Equations

Rathish Kumar, B. V. and Priyadarshi, Gopal

, Year 2020, Pages 231--253

83. On subgrid multiscale stabilized finite element method for advection-diffusion-reaction equation with variable coefficients

Chowdhury M.;Kumar B.V.R.

Applied Numerical Mathematics, Volume 150, Year 2020, Pages 576-586

84. Haar wavelet method for two-dimensional parabolic inverse problem with a control parameter

Rathish Kumar B.V.;Priyadarshi G.

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85. Reconstruction of the parameter in parabolic partial differential equations using Haar wavelet method

Priyadarshi G.;Rathish Kumar B.V.

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86. Higher order PDE based model for segmenting noisy image

Kumar B.V.R.;Halim A.;Vijayakrishna R.
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87. An anisotropic PDE model for image inpainting

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88. Complete flux scheme for elliptic singularly perturbed differential-difference equations

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89. A linear fourth-order PDE-based gray-scale image inpainting model

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90. A RBF based finite difference method for option pricing under regime-switching jump-diffusion model

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92. Magnetic field effect on non-darcy mixed convection from a horizontal plate in a nanofluid-saturated porous medium

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93. Modeling and simulation of cardiac electric activity in a human cardiac tissue with multiple ischemic zones

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94. On the existence-uniqueness and computation of solution of a class of cardiac electric activity models

Pargaei, Meena and Rathish Kumar, B. V.
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95. A meshless local collocation method for time fractional diffusion wave equation

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98. A priori and a posteriori error estimation for finite element approximation of advection-diffusion-reaction equation with spatially variable coefficients

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99. Numerical study of entropy generation in a doubly stratified fluid saturated Darcy porous enclosure in the presence of Soret and Dufour effects under the influence of MHD forces

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100. On the influence of magnetic field on Darcy mixed convection from a horizontal plate in a nanofluid saturated porous medium

Rathish Kumar, B. V. and Kumari, Priti and Nigam, Mohit and Kumar, Vinay and Krishna Murthy, S. V. S. S. N. V. G. and Raturi, Shweta and Pargaei, Meena and Halim, Abdul

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101. On the influence of magnetic field on Darcy mixed convection from a horizontal plate in a nanofluid saturated porous medium

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Krishna Murthy S.V.S.S.N.V.G.;Kumar V.

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Priyadarshi G.;Rathish Kumar B.V.
Numerical Methods for Partial Differential Equations, Volume 34, Year 2018, Pages 982-1008
108. Wavelet Galerkin method for fourth order linear and nonlinear differential equations
Priyadarshi G.;Rathish Kumar B.
Applied Mathematics and Computation, Volume 327, Year 2018, Pages 8-21
109. Wavelet Galerkin method for fourth-order multi-dimensional elliptic partial differential equations
Rathish Kumar B.;Priyadarshi G.
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385. Blood flow in a vessel with asymmetric aneurysm

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Nonlinear Analysis: Theory, Methods \& Applications

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