



Dr. Naveen Sanju Malagi



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Dharwad, India



20 Feb, 1993



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AREAS OF INTERESTS

Fractional Calculus

Applied Mathematics

Numerical Methods

Mathematical Physics

Mathematical Modelling

EDUCATION

M. Sc. in MATHEMATICS

Rani Channamma University

2013 - 2015,

Vidyasangama, NH-04, Belagavi- 591156,

Karnataka.

Ph. D.

Davangere University

02/2020-05/2023,

Shivagangothri, Davangere- 577007,

Karnataka.

Areas of Research

❖ *Fractional Calculus*

WORK EXPERIENCE

Lecturer

K. L. E. Society's Raja Lakhamagouda Science Institute

2017- 2018,

Belagavi- 590001, Karnataka.

With the experience of teaching PUC board, KCET and JEE mains

2018- 2020,

Belagavi- 590001, Karnataka.

CHRIST (Deemed to be University), Bengaluru

26/06/2023- 30/02/2024,

Bengaluru- 560027, Karnataka.

PAPERS PUBLISHED: 08

❖ [Google scholar](#)

❖ [Scopus Author ID:](#)

[57217491374](#)

PAPERS COMMUNICATED/ACCEPTED: 05

CONFERENCES\WORKSHOPS

(NATIONAL \ INTERNATIONAL)

presented: 03

Conferences attended: 05

CONFERENCE PROCEEDINGS: 01

ACADEMIC DETAILS

DOCTOR OF PHILOSOPHY (Ph. D.)

- **Institution Name:** Davangere University, Davangere
- **Area of Research:** Fractional Calculus
- **Title of the Proposed Research:** Solutions for Fractional Differential Equations using Novel Techniques
- **Supervisor:** Dr. D. G. PRAKASHA
Professor, Department of studies and Research in
Mathematics, Davangere University, Shivagangothri-
577007 Davangere, Karnataka, India
☎ +91 8095907689 ✉ prakashadg@gmail.com

POST GRADUATION

- **Course:** Master of Science (M. Sc.) in Mathematics.
- **University:** Rani Channamma University, Belagavi.
- **Pass out with G.P.A / C.G.P.A - 7.91 in the year 2015.**

UNDER GRADUATION

- **Course:** Bachelor of Science (B. Sc.) [P. C. M.]
- **Institution Name:** Raja Lakhamagouda Science Institute, Belagavi
- **University:** Rani Channamma University, Belagavi.
- **Pass out in the year 2013 (Distinction)**

ADDRESS

RESIDENTIAL

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India.

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COMMUNICATION

: C/O Rudragouda Patil
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580003, Karnataka, India

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LIST OF PUBLISHED RESEARCH PAPER

1. D. G. Prakasha, R. Saadeh, K. Kachhia, A. Qazza, **N. S. Malagi**, A New Computational Technique for Analytic Treatment of Time-Fractional Nonlinear Equations Arising in Magneto-Acoustic Waves, *Mathematical Problems in Engineering*, 2023 (2023).
DOI: [10.1155/2023/6229486](https://doi.org/10.1155/2023/6229486) A&I: SCIE IF: 1.43
2. **N. S. Malagi**, P. Veerasha, B. C. Prasannakumara, G. D. Prasanna, D. G. Prakasha, Novel approach for nonlinear time-fractional Sharma-Tasso-Olever equation using Elzaki transform, *An International Journal of Optimization and Control: Theories & Applications (IJOCTA)*, 13 (1) (2023), 46-58.
DOI: [10.11121/ijocta.2023.1265](https://doi.org/10.11121/ijocta.2023.1265) A&I: SCOPUS IF: 1.143
3. M. Sunitha, F. Gamaoun, A. Abdulrahman, **N. S. Malagi**, S. Singh, R. J. Gowda, R. J. Punith Gowda, An efficient analytical approach with novel integral transform to study the two-dimensional solute transport problem, *Ain Shams Eng. J.*, 14 (4) (2022), 101878.
DOI: [10.1016/j.asej.2022.101878](https://doi.org/10.1016/j.asej.2022.101878) A&I: SCIE IF: 4.79
4. P. Veerasha, **N. S. Malagi**, D. G. Prakasha, H. M. Baskonus, An efficient technique to analyze the fractional model of vector-borne diseases, *Phys. Scr.*, 9 (5) (2022).
DOI: [10.1088/1402-4896/ac607b](https://doi.org/10.1088/1402-4896/ac607b) A&I: SCIE IF: 2.487
5. **N. S. Malagi**, P. Veerasha, B. C. Prasannakumara, G. D. Prasanna, D. G. Prakasha, A new computational technique for the analytic treatment of time fractional Emden Fowler equations, *Math. Comput. Simul.*, 190 (2021), 362-376.
DOI: [10.1016/j.matcom.2021.05.030](https://doi.org/10.1016/j.matcom.2021.05.030) A&I: SCIE IF: 2.463
6. P. Veerasha, W. Gao, D. G. Prakasha, **N. S. Malagi**, E. Ilhan, H. M. Baskonus, New dynamical behaviour of the coronavirus (2019-nCoV) infection system with non-local operator from reservoirs to people, *Inf. Sci. Lett.*, 10 (2) (2021), 205-212.
DOI: [10.18576/isl/100206](https://doi.org/10.18576/isl/100206) A&I: SCOPUS
7. D. G. Prakasha, **N. S. Malagi**, P. Veerasha, B. C. Prasannakumara, An efficient computational technique for time-fractional Kaup-Kupershmidt equation, *Numer. Meth. Partial Differ. Equ.*, 37 (2) (2021), 1299-1316.
DOI: [10.1002/num.22580](https://doi.org/10.1002/num.22580) A&I: SCIE IF: 3.009
8. D. G. Prakasha, **N. S. Malagi**, P. Veerasha, New approach for fractional Schrödinger-Boussinesq equations with Mittag-Leffler kernel, *Math. Meth. Appl. Sci.*, 43 (2020), 9654-9670.
DOI: [10.1002/mma.6635](https://doi.org/10.1002/mma.6635) A&I: SCIE IF: 2.321

LIST OF CONFERENCE PROCEEDINGS: 01

1. N. S. Malagi, P. Veerasha, D. G. Prakasha, B. C. Prasannakumara, Fractional Reaction–Diffusion Model: An Efficient Computational Technique for Nonlinear Time-Fractional Schnakenberg Model, Advances in Mathematical Modelling, Applied Analysis and Computation

DOI: [10.1007/978-981-19-0179-9_26](https://doi.org/10.1007/978-981-19-0179-9_26)

A&I: SCOPUS

DETAILS OF PAPERS PRESENTED IN CONFERENCES / SEMINARS / WORKSHOPS ATTENDED

Sl. No.	Conference	Title of the paper presented	Date	Organized by	International/National
01	International Conference on Advancement of Interdisciplinary Research	An efficient computational technique for time-fractional Kaup-Kupershmidt equation	22 nd July, 2020.	Department of Applied Science, Sagar Institute of Research and Technology, Bhopal.	International
02	Differential Geometry and its Applications (DGA-22)	Novel approach for nonlinear time-fractional Sharma-Tasso-Olever equation using Elzaki transform	4 th and 5 th March-2022	Department of P. G. Studies and Research in Mathematics, Kuvempu University, Jnanasahyadri, Shankaraghatta-577451, Shivamogga, Karnataka, India and The Tensor Society, Lucknow, India.	International

03	4 th International Conference on Mathematical Modelling, Applied Analysis and Computation-2021 (ICMMAAC-21)	Fractional Reaction-Diffusion Model: An Efficient Computational Technique for Nonlinear Time-Fractional Schanakenberg Model	5 th to 7 th Aug-2021	Department of Mathematics, JECRC University, Jaipur, Rajasthan, India.	International
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PAPERS COMMUNICATED/ACCEPTED

1. **N. S. Malagi**, D. G. Prakasha, B. C. Prasannakumara, P. Veeresha, An advection-dispersion equation: the investigation of the two-dimensional fractional solute transport problem using an approximate analytical method, Ain Shams Engineering Journal, (2023). (Communicated)
2. **N. S. Malagi**, D. G. Prakasha, B. C. Prasannakumara, P. Veeresha, A novel computational technique for nonlinear fractional coupled Klien-GOrdon equations, Mathematics in Engineering, (2023). (Communicated)
3. Kumbinarasaiah S., P. Veeresha, D. G. Prakasha, **N. S. Malagi**, H. S. Ramane, K. S. Pise, Novel approaches for nonlinear Sine-Gordon equations using two efficient techniques, Waves in Random and Complex Media, (2023). (Communicated)
4. P. Veeresha, **Naveen Sanju Malagi**, S. E. Fadugba, M. C. Kekana, An Efficient numerical approach to analyse the Plant-Herbivore model using the Caputo operator, Chaos Solitons and Fractals, (2023). (Communicated)
5. Chetan H B, Prakasha D G, **Naveen Sanju Malagi**, An efficient approximate analytical technique for the fractional model describing the solid tumour invasion, Frontiers in Physics, (2023). (Communicated)

COURSES TAUGHT IN POST-GRADUATE LEVEL

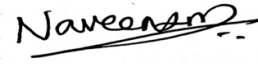
- Differential Equations ▪ Numerical Analysis ▪ Linear Algebra ▪ Differential Geometry
- Complex Analysis ▪ C-programming ▪ Topology ▪ Modern Algebra ▪ Number Theory

LIST OF REFERENCES

1. Professor Dr. N. M. Bujurke, INSA Senior Scientist, Department of Mathematics, Karnatak University, Dharwad - 580003, Karnataka, India
 +91 9448424745  bujurke@yahoo.com

2. Dr. D. G. Prakasha, Professor, Department of Mathematics, Davangere University, Shivagangothri, Davangere -577007, Karnataka, India
☎ +91 8095907689 ✉ prakashadg@gmail.com
3. Dr. P. Veerasha, Assistant Professor, Department of Mathematics, CHRIST (Deemed to be University), Bengaluru - 560029, Karnataka, India
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pundikala.veerasha@christuniversity.in

I do hereby declare that all the information stated above is true to the best of my knowledge.



(NAVEEN SANJU MALAGI)