

# CURRICULUM VETAE



## Dr. Mounesha H. Kantli

Assistant Professor in Mathematics  
BVVS, Biluru Gurubasava Mahaswamiji Institute of Technology  
Mudhol-587313, Dist: Bagalkot  
Karnataka, India

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## Personal Details

Name : **Dr. Mounesha Hanamantappa Kantli**

Date of Birth : 09<sup>th</sup> August, 1984

Gender : Male

Marital Status : Married

Permanent

Address : **S/o. Hanamantappa Kantli**

**At/Post – Jeeral**

**Tq – Gangavati Dist – Koppal**

**Pin: 583283**

Languages Known : **Kannada, English and Hindi.**

Designation : **Assistant Professor**

### Teaching / Research Experience:

Sl. No.	Institute/College	Designation	Experience (Year)	Period	
				From	To
01	KLE'S, J.T.College, Gadag	Teaching Assistant	01	24-06-2009	02-04-2010
02	Karnatak Arts/Science College, Dharwad	JRF (UGC-MRP)	2 years and 9 months	03-04-2010	31-01-2013
03	Karnatak University, Dharwad	Research Scholar	3 years and 5 months	30-04-2013	08-09-2016
04	KLE'S, J.T.College, Gadag	Lecturer	2 years and 10 months	22-09-2016	31-07-2019
05	BVVS, BGMIT, Mudhol	Assistant Professor	04 months	03-08-2019	Since

Teaching/Research Experience : **7 years**

Best paper presentation awards : 01

Invited lecturers	: 04
No. of Conferencies/Workshops Atended	: 20
No. of Paper Presented at Conferencies	: 12
No. of papers published	: 27
Interested Areas	: (i) <b>Numerical Methods</b> (ii) <b>Differential Equations</b> (iii) <b>Wavelets and signal processing.</b>

## Summary of Skills

- Able to pick up new concepts quickly and self-motivated to learn.
- Proven skills in analytical thinking, problem solving, and conflict resolution.
- Strong interpersonal skills.
- Ability to work as part of team.
- Good written / oral communication.
- Experience working with Numerical Technique using software like MATLAB, C- programming etc,

## Education Details

Course	Year	Institute	Percent	Class
Ph.D.	2017	Karnatak University, Dharwad.	91.43	Awarded
M.Sc.	2009	Karnatak University, Dharwad.	74.13	First Class With DN
B.Ed.	2007	Karnatak University, Dharwad.	74.46	First Class With DN
B.Sc.	2005	Karnatak University, Dharwad.	65.11	First Class

## Knowledge on Mathematics

*Applied Mathematics:* **Laplace Transform, Fourier Transform and Wavelet Transform, Numerical Solutions, Differential Equations and Operation Research (OR).**

*Theoretical Mathematics:* **Linear Algebra, Real & Complex Analysis, Numerical Analysis, Calculus and Differential Equations, Laplace Transform, Fourier Analysis, Wavelets and Approximation.**

## Computer Skills

- MS Word, Excel, PowerPoint

- **MATLAB** and
- **C-Programming**

## Publications

### PUBLISHED IN THE NATIONAL AND INTERNATIONAL JOURNALS

1. **M.H. Kantli**, S.C. Shiralashetti, Finite difference Wavelet–Galerkin method for the numerical solution of elasto-hydrodynamic lubrication problems, *Journal of Analysis*, 26:2, 285-295, (2018). **Springer**.
2. S.C. Shiralashetti, **M.H. Kantli**, A.B. Deshi: Biorthogonal wavelet based full-approximation schemes for the numerical solution of elasto-hydrodynamic lubrication problems, *Journal of Mathematical Modeling*, 6:1, 105-122, (2018).
3. **M.H. Kantli**, M.M. Holliyavar: “Wavelet Preconditioners of Electrohydrodynamic flow problem”, *Journal of Information and Computing Science*, 12:3, 203-209, (2017). **World Academic Press**.
4. N.M. Bujurke, **M.H. Kantli**, B.M. Shettar: “Jacobian free Newton-GMRES method for the solution of elasto-hydrodynamic grease lubrication in line contact using wavelet based pre-conditioners”, *Proceedings of the National Academy of Sciences, India Section A: Physical Sciences*, 88:2, 247-265, (2018). **Springer**.
5. **M.H. Kantli**, B.M. Shettar, N.M. Bujurke: “Jacobian free Newton-GMRES method for analysing combined effects of surface roughness and couple stress character of lubricant on EHL line contact”, *Proceedings of the Indian National Science Academy*, 83:1, 175-196, (2017). **INSA**.
6. N.M. Bujurke, **M. H. Kantli**, B.M. Shettar: “Wavelet preconditioned Newton-Krylov method for elasto-hydrodynamic lubrication of line contact problems”, *Applied Mathematical Modelling*, 46, 285-298, (2017). **Elsevier**.
7. S.C. Shiralashetti, **M.H. Kantli**, A.B. Deshi: New wavelet based full-approximation scheme for the numerical solution of nonlinear elliptic partial differential equations, *Alexandria Engineering Journal*, 55, 2797-2804, (2016). **Elsevier**.
8. S.C. Shiralashetti, **M.H. Kantli**, A.B. Deshi, P.B. Mutalik Desai: A modified wavelet multigrid method for the numerical solution of boundary value problems, *Journal of Information & Optimization Sciences*, 38:1, 151-172, (2017). **Taylor & Francis**.
9. S.C. Shiralashetti, **M.H. Kantli**: “Wavelet based decoupled method for the investigation of surface roughness effects in elasto-hydrodynamic lubrication problems using couple stress fluid”, *Ain Shams Engineering Journal*, 9, 757-766, 2018, **Elsevier**
10. S.C. Shiralashetti, **M.H. Kantli**, A.B. Deshi: A new wavelet multigrid method for the numerical solution of elliptic type differential equations, *Alexandria Engineering Journal*, 57, 203-209, (2018). **Elsevier**
11. S.C. Shiralashetti, **M.H. Kantli**, A.B. Deshi: Haar wavelet based numerical solution of nonlinear differential equations arising in fluid dynamics, *International Journal of Computational Material Science and Engineering*, 5:2, 1650010-1-13 (2016). **World Scientific**.
12. S.C. Shiralashetti, **M.H. Kantli**, A.B. Deshi: A Comparative study of the Daubechies wavelet based new Galerkin and Haar wavelet collocation methods

for the numerical solution of differential equations, *Journal of Information and Computing Science (JIC)*, 12:1, 052-063, (2017). **World Academic Press**.

13. S.C. Shiralashetti, A.B. Deshi, **M.H. Kantli**, L.M. Angadi: Modified wavelet multigrid method for the numerical solution of partial differential equation arising in fluid dynamics, *Open Journal of Applied & Theoretical Mathematics (OJATM)*, 2:4, 611-632, (2016).
14. S.C. Shiralashetti, **M.H. Kantli**: “A New Daubechies orthogonal discrete wavelet transform with permutation preconditioner method for the numerical solution of EHL problems”, *American Journal of Heat and Mass Transfer (AJHMT)*, (2016), 3(3), 164-180.
15. S.C. Shiralashetti, **M.H. Kantli**, A.B. Deshi: “Haar wavelet based numerical solution of elasto-hydrodynamic lubrication with line contact problems”, *Journal of Information and Computing Sciences (JIC)*, 11:3, 169-179, (2016). **World Academic Press**.
16. S.C. Shiralashetti, **M.H. Kantli**: “Investigation of Couple Stress Fluid and Surface Roughness Effects in the elasto-hydrodynamic Lubrication Problems using Wavelet-Based Decoupled Method”, *Lubricants*, **2016**, 4, 9; doi:10.3390/lubricants4010009. **MDPI**.
17. S.C. Shiralashetti, L. M. Angadi, **M.H. Kantli**, A.B. Deshi: Numerical solution of parabolic partial differential equations using adaptive grid Haar wavelet collocation method, *Asian-European Journal of Mathematics*, 0, 1750026 (2016). **World Scientific**.
18. S.C. Shiralashetti, L. M. Angadi, A.B. Deshi, **M.H. Kantli**: “Haar wavelet method for the numerical solution of Klein-Gordan equations”, *Asian-European Journal of Mathematics*, (2016), 9(1), 1650012, DOI: 10.1142/S1793557116500121. **World Scientific**.
19. S.C. Shiralashetti, **M.H. Kantli**: “Wavelet Galerkin method for the numerical solution of elasto-hydrodynamic lubrication problems”, *International Journal of Scientific and Innovative Mathematical Research (IJSIMR)*, 3(2), (2015), 523-527.
20. S.C. Shiralashetti, **M.H. Kantli**, A.B. Deshi: Wavelet based numerical solution of elasto-hydrodynamic lubrication problems via lifting scheme, *American Journal of Heat and Mass Transfer*, 3:5, 313-332, (2016).
21. S.C. Shiralashetti, L. M. Angadi, A.B. Deshi, **M.H. Kantli**: Haar wavelet method for the numerical solution of Benjamin-Bona-Mahony equations, *Journal of Information and Computing Science (JIC)*, 11:2, 136-145, (2016). **World Academic Press**.
22. S.C. Shiralashetti, **M.H. Kantli**: Numerical solution of typical initial value problems using Haar wavelet transform method, *International Journal of Current Research*, 5:5, 1168-1171, (2013).

#### **RESEARCH PAPERS PUBLISHED IN NATIONAL AND INTERNATIONAL CONFERENCE PROCEEDINGS**

23. S.C. Shiralashetti, M.H. Kantli, N.M. Bujurke: Wavelet Based Multigrid Method For The Numerical Solutions Of Differential Equations Arising In Fluid Dynamics, *Proc. Int. Conf. On Applications of Fractals and Wavelets*, **2015**, **172-185**.
24. S.C. Shiralashetti, M.H. Kantli, N.M. Bujurke: Haar Wavelet Transform Method for Solving Singular BVP of ODE, *Proc. Int. Conf. On Fluid Dynamics*

- and its Applications*, **2011**, **572-579**.
25. S.C. Shiralashetti, M.H. Kantli, S.S. Naregal: Wavelet based algebraic multigrid method for the solution of PDE's arising in fluid dynamics, *Proc. Int. Conf. On Fluid Dynamics and its Applications*, **2011**, **597-606**.
26. S.C. Shiralashetti, R.A. Mundewadi, M.H. Kantli, A.B. Deshi: Haar wavelet based numerical method for solution of Volterra integral equations, *Proc. Int. Conf. On Applications of Fractals and Wavelets*, **2015**, **153-165**.

**RESEARCH PAPERS COMMUNICATED FOR PUBLICATION IN THE JOURNALS**

1. Shiralashetti S. C., Kantli M. H. and Deshi A. B., A new wavelet-Galerkin method for the numerical solution of certain class of differential equations, **Journal of Numerical Analysis, Industrial and Applied Mathematics**.
2. Shiralashetti S. C., Kantli M. H. and Deshi A. B., Biorthogonal wavelet based multigrid method for the numerical solution of elliptic partial differential equations, **Bulletin of Mathematical Sciences**.
3. Shiralashetti S. C., Kantli M. H. and Deshi A. B., A modified wavelet multigrid method for the numerical solution of convection-diffusion problem, **Asian-European Journal of Mathematics**.
4. Shiralashetti S. C., Kantli M. H. and Deshi A. B., Modified wavelet based full-approximation scheme for the numerical solution of non-linear differential equations, **World Journal of Modelling and Simulation**.
5. Shiralashetti S. C., Kantli M. H. and Deshi A. B., Adaptive grid Haar wavelet collocation method for the numerical solution of differential equations arising in fluid dynamics, **International Journal of Mathematical Modelling & Computations**.

**Place : Mudhol**

**Date :**

**(Dr. Mounesha H. Kantli)**