Publications

The following are the research publications resulted from the present thesis work.

- **K. P. Mredula, D.C. Vakaskar,** *IEEE Xplorer,* **Unified approach for solving initial valued and boundary valued Ordinary Differential Equations using wavelet collocation method**,
  Print ISBN: 978-1-4799-0726-7, (2014).

- **K. P. Mredula, D.C. Vakaskar,** *Indian Journal of Industrial and Applied Mathematics Vol. 8, No. 1, JanJune 2017,* **Collocation method using wavelet for partial differential equation,** pp. 14 – 23, (2017).

- **K. P. Mredula, D.C. Vakaskar,** *European Journal of Engineering Research and Science Vol. 2, No. 3, March 2017,* **Haar Wavelet Implementation to Various Partial Differential Equations,** 44, (2017).

- **K. P. Mredula, D.C. Vakaskar,** *Palestine Journal of Mathematics,* **Collocation methods general approach for ordinary differential equations**, Vol 7(2), 2018, accepted.

- **K.P.Mredula, V. D. Pathak, B. M. Shah,** *Alexandria Engineering Journal, Elsevier,* **Wavelet based finite volume Godunov method for solving inviscid burger equation,** communicated.

- **K. P. Mredula, D.C. Vakaskar, Oleg V. Kravchenko,** *Theory in Biosciences, Springer,* **Evolution of amphibian embryo model simulation,** communicated.

- **K. P. Mredula, D.C. Vakaskar, An Overview of Wavelets and Multiresolution Analysis,** *Proceedings of National Seminar on Analysis, Geometry and Applications* , 7th - 8th March (2013).

- **D.C.Vakaskar, K.P.Mredula, Generalized wavelet collocation for ordinary differential equation,** National conference on Recent Advances in Mathematics, published in Journal of Marathwada Mathematical Society Aurangabad, December (2014).

- **K. P. Mredula., D.C. Vakaskar, Simulation of amphibian embryo using finite volume framework** , *International conference in Advances in Scientific computing IIT Madras,* Nov (2016).

- **O.V. Kravchenko(Oleg V.K), K.P.Mredula and D.C.Vakaskar, Investigation of algorithms utilizing wavelets to solve various partial differential equations,** *PIERS2017 St Petersburg,*
http: //piers.org/piers2017StPetersburg,(2017).