List of Publications

(Published/Communicated Papers)

- 1. Vinita Devi, Rahul Kumar Maurya, Vineet Singh, Lagrange Operational Matrix Methods to Lane–Emden, Riccati's and Bessel's Equations, published in International Journal of Applied and computational mathematics 5 (2019) 79.
- 2. Vinita Devi, Rahul Kumar Maurya, Somveer Singh, Vineet Singh, Lagrange's operational approach for the approximate solution of two-dimensional hyperbolic telegraph equation subject to Dirichlet boundary conditions, published in Applied Mathematics and Computation 367 (2019) 124717.
- 3. Somveer Singh, Vinita Devi, Emran Tohidi, Vineet Singh, An efficient matrix approach for two-dimensional diffusion and telegraph equations with Dirichlet boundary conditions, published in Physica A 545 (2019) 123784.
- 4. Vinita Devi, Rahul Kumar Maurya, Vineet Singh, Computational approach based on operational matrix/finite difference for multi-term fractional wave model arise in dielectric medium, communicated in Numerical Methods for Partial Differential Equations.
- 5. Rahul Kumar Maurya, **Vinita Devi**, Vineet Singh, Multistep schemes for one and two dimensional electromagnetic wave models based on fractional derivative approximation, published in **Journal of Computational and Applied Mathematics**, 380 (2020) 112985.
- Rahul Kumar Maurya, Vinita Devi, Nikhil Srivastava, Vineet Singh, An efficient and stable Lagrangian matrix approach to Abel integral and integro-differential equations, published in Applied Mathematics and Computation, 374 (2020) 125005.
- Rahul Kumar Maurya, Vinita Devi, Vineet Singh, Stability and convergence of multistep schemes for 1D and 2D fractional model with nonlinear source term, published in Applied Mathematical Modelling, 89 (2020) 038.