

Research Publications

- S. S. Siddiqi and M. Sadaf, Application of non-polynomial spline to the solution of fifth-order boundary value problems in induction motor, *Journal of the Egyptian Mathematical Society* (2015), 23: 20–26.
- M. Sadaf and G. Akram, An improved adaptation of homotopy analysis method, *Mathematical Sciences* (2017), 11: 55–62.
- G. Akram and M. Sadaf, Application of homotopy analysis method to the solution of ninth order boundary value problems in AFTI-F16 fighters, *Journal of the Association of Arab Universities for Basic and Applied Sciences* (2017), 24: 149–155.
- G. Akram, M. Sadaf and N. Anum, Solutions of time-fractional Kudryashov–Sinelshchikov equation arising in the pressure waves in the liquid with gas bubbles, *Optical and Quantum Electronics* (2017), 49: DOI 10.1007/s11082-017-1202-5.
- G. Akram and M. Sadaf, Solution of damped generalized regularized long-wave equation using a modified homotopy analysis method, *Indian Journal of Physics* (2018), 92(2): 191-196.
- M. Sadaf and G. Akram, A Legendre-homotopy method for the solutions of higher order boundary value problems, *Journal of King Saud University – Science* (2018), DOI.org/10.1016/j.jksus.2018.08.002.
- G. Akram and M. Sadaf, Wave solutions of nonlinear Eckhaus equation and generalized ZK-Burgers equation using a homotopy based method, *TWMS Journal of Pure and Applied Mathematics*, (Accepted for publication)
- M. Sadaf and G. Akram, Analytical approximate solutions of time-fractional integro-differential equations using a new iterative technique, *TWMS Journal of Applied and Engineering Mathematics*, (Accepted for publication)