Dr Sai Sundara Krishnan G

Professor

Department of Applied Mathematics and Computational Sciences

PSG College of Technology,

Avinashi Rd, Peelamedu

Coimbatore , Tamil Nadu, India – 641004

Mobile No: 9944139613

ssk.amcs@psgtech.ac.in

List of Publications (Last 5 years)

1. **Analysis of a fractional epidemic model by fractional generalised homotopy analysis method using modified Riemann - Liouville derivative.** S. R. Saratha., G. Sai Sundara Krishnan., M. Bagyalakshmi. Applied Mathematical Modelling, **Volume** 92, **Year** 2021, **Pages** 525-545. DOI:10.1016/j.apm.2020.11.019 (SCIE)

2. **Fractional generalised homotopy analysis method for solving nonlinear fractional differential equations.** S. R. Saratha ., M. Bagyalakshmi ., G. Sai Sundara Krishnan. Computational and Applied Mathematics, **Volume** 39, **Year** 2020. DOI:10.1007/s40314-020-1133-9 (SCIE)

3. **Solving Black–Scholes equations using fractional generalized homotopy analysis methods.** R. Saratha ., G. Sai Sundara Krishnan ., M. Bagyalakshmi ., Chee Peng Lim ., Computational and Applied Mathematics, **Volume** 39, **Year** 2020. DOI:10.1007/s40314-020-01306-4 (SCIE)

4. **A NOVEL INVESTIGATION of HEAT TRANSFER CHARACTERISTICS in HYBRID MICRO-CHANNEL HEAT SINK STRUCTURE: OPPOSITION-BASED ANTLION OPTIMIZATION.** Deena, R.;Sai Sundara Krishnan, G. Surface Review and Letters, **Volume** 27, **Year** 2020. DOI:10.1142/S0218625X19501439

5. **Mappings on abstract cellular complex and their applications in image analysis.** R.Syama, Sai Sundara Krishnan G, Yashwanth Ramamurthi. International Journal of Computer Mathematics, **Year** 2020. DOI:10.1080/00207160.2020.1825695 (Indexed)

6. **Heat Transfer of Gas Flow through Microchannels using Extended Navier–Stokes Equations.** Deena, R.;Sai Sundara Krishnan, G. IETE Journal of Research, Year 2019. DOI:10.1080/03772063.2019.1615009 (SCI)

7. **On γ-operations in soft topological spaces.** Kalaivani, N.;Anitha, K.;Saravanakumar, D.;Sai Sundara Krishnan, G. Far East Journal of Mathematical Sciences, Volume 101, Year 2017, Pages 2067-2077. DOI:10.17654/MS101092067

8. **Operation-compact spaces, regular spaces and normal spaces with α-γ-open sets in topological spaces.** Kalaivani, N.;El-Maghrabi, A. I.;Saravanakumar, D.;Sai Sundara Krishnan, G. Journal of Interdisciplinary Mathematics, Volume 20, Year 2017, Pages 427-441 DOI:10.1080/09720502.2015.1104945 (Scopus)

9. **A similarity measure of intuitionistic fuzzy soft sets and its application in medical diagnosis.** Muthukumar, P.;Sai Sundara Krishnan, G. Applied Soft Computing Journal, Volume 41, Year 2016, Pages 148-156 DOI:10.1016/j.asoc.2015.12.002 (SCIE)

10. **Soft g* closed and soft g*open sets in soft topological spaces.** Kalavathi, A.;Sai Sundara Krishnan, G. Journal of InterdisciplinaryMathematics, **Volume** 19, **Year** 2016, **Pages** 65-82 DOI:10.1080/09720502.2015.1103110 (Scous)

11. **Boundary detection algorithm based on semi-subcomplexes.** Sai Sundara Krishnan G, Vijaya N. International Journal of Pure and Applied Mathematics, **Volume** 107, **Year** 2016, **Pages** 709721 DOI:10.12732/ijpam.v107i3.19 (Scopus)

12. **On new spatial filters using abstract cellular complex.** Sai Sundara Krishnan, G.;Vijaya, N. ARPN Journal of Engineering and Applied Sciences, **Volume** 10, **Year** 2015, **Pages** 10310-10316.