

Department of Mathematics
Research Publications in 2019

International Journals

1. Arora, R.; Giacomoni, J.; Mukherjee, T.; Sreenadh, K., n-Kirchhoff-Choquard equations with exponential nonlinearity. *Nonlinear Anal.* 186 (2019), 113–144.
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4. Basak, Biplab, Regular genus and gem-complexity of some mapping tori. *Rev. R. Acad. Cienc. Exactas Fís. Nat. Ser. A Mat. RACSAM* 113 (2019), no. 3, 2479–2493.
5. Pooja Bansal, Aparna Mehra, Directional distance function based super efficiency integer dynamic data envelopment analysis model, *Data Envelopment Analysis Journal*, 4 (2), 149– 186, 2019.
6. Batra, Sanjit Singh; Kumar, Nikhil; Tripathi, Amitabha, Some problems concerning the Frobenius number for extensions of an arithmetic progression. *Ramanujan J.* 48 (2019), no. 3, 545–565.
7. Levin, David; Dyn, Nira; Viswanathan, Puthan Veedu, Non-stationary versions of fixed-point theory, with applications to fractals and subdivision. *J. Fixed Point Theory Appl.* 21 (2019), no. 1, Art. 26, 25 pp.
8. Dhara, B.; Garg, C.; Sharma, R. K., An identity on generalized derivations involving multilinear polynomials in prime rings. *Proc. Indian Acad. Sci. Math. Sci.* 129 (2019), no. 3, Art. 40, 14 pp.
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12. Figueroa-García, Juan Carlos; Mehra, Aparna; Chandra, Suresh, Optimal solutions for group matrix games involving interval-valued fuzzy numbers. *Fuzzy Sets and Systems* 362 (2019), 55–70.
13. Giacomoni, Jacques; Mukherjee, Tuhina; Sreenadh, Konijeti, Existence and stabilization results for a singular parabolic equation involving the fractional Laplacian. *Discrete Contin. Dyn. Syst. Ser. S* 12 (2019), no. 2, 311–337.
14. Giacomoni, Jacques; Mukherjee, Tuhina; Sreenadh, Konijeti, Existence of three positive solutions for a nonlocal singular Dirichlet boundary problem. *Adv. Nonlinear Stud.* 19 (2019), no. 2, 333–352.
15. Giacomoni, Jacques; Mukherjee, Tuhina; Sreenadh, Konijeti, A global multiplicity result for a very singular critical nonlocal equation. *Topol. Methods Nonlinear Anal.* 54 (2019), no. 1, 345–370.

16. Goel, Anubha; Aparna Mehra, Analyzing contagion effect in markets during financial crisis using stochastic autoregressive canonical vine model, *Computational Economics*, 53 (3), 921 - 950, 2019.
17. Goel, Anubha; Sharma, Amita; Mehra, Aparna, Robust optimization of mixed CVaR STARR ratio using copulas. *J. Comput. Appl. Math.* 347 (2019), 62–83.
18. Goel, Divya; Sreenadh, K., On the second eigenvalue of combination between local and nonlocal p-Laplacian. *Proc. Amer. Math. Soc.* 147 (2019), no. 10, 4315–4327.
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25. Kapoor, Shruti; S. Dharmaraja; Arunachalam, Viswanathan, Transient solution of fluid queue modulated by two independent birth-death processes. *Int. J. Oper. Res.* 36 (2019), no. 1, 1–11.
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33. Kumar, Vishvesh, Pseudo-differential operators on homogeneous spaces of compact and Hausdorff groups. *Forum Math.* 31 (2019), no. 2, 275–282.

34. Kumar, Vishvesh; Wong, M. W., C^* -algebras, H^* -algebras and trace ideals of pseudo-differential operators on locally compact, Hausdorff and abelian groups. *J. Pseudo-Differ. Oper. Appl.* 10 (2019), no. 2, 269–283.
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44. Panda, B. S.; Verma, Shaily, On partial Grundy coloring of bipartite graphs and chordal graphs. *Discrete Appl. Math.* 271 (2019), 171–183.
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