

## Research Publications

- 1 Bhavanari Satyanarayana, T. V. Pradeep Kumar and M. Srinivasa Rao "On Prime left ideals in  $\delta$ -rings", Indian Journal of Pure & Appl. Mathematics 31 (2000) 687 - 693. (INSA, New Delhi). (Zbl 0989. 16028)
- 2 Satyanarayana Bhavanari, Syam Prasad Kuncham, & Venkata Pradeep Kumar Tumurukota "On IFP  $N$ -groups and Fuzzy IFP ideals", **Indian Journal of Mathematics**, 46 (2004) 11-19. (Zbl. 1079. 16035)
- 3 Satyanarayana Bhavanari, Syam Prasad Kuncham & Venkata Pradeep Kumar Tumurukota "On Fuzzy Dimension of  $N$ -groups with DCC on Ideals", **East Asian Math. J.** 21 (2005), No. 2 pp. 205-216.
4. Satyanarayana Bhavanari Syam Prasad K., Pradeep Kumar T. V., and Srinivas T. "Some Results on Fuzzy Cosets and Homomorphisms of  $N$ -groups", **East Asian Math. J.** 23 (2007), No. 1, pp. 23-36.
5. Satyanarayana Bhavanari, Pradeep Kumar T. V., Sreenadh Sridharamalle and Eswarajah Setty Sriramula, "On Completely prime and Completely Semi-prime Ideals in  $\delta$ -near-rings", **International Journal of Computational Mathematical Ideas**, Vol-2, No. 1&2, 2010. PP 22-27 (ISSN: 0974 – 8652).
6. T. V Pradeep Kumar, Satyanarayana Bhavanari, Kuncham Syam Prasad and Mohiddin Shaw Sk, "Some Results on Completely Semi-Prime Ideals in Gamma Near-rings", Proceedings of the National Seminar on Present Trends in Mathematics and its Applications, November 11-12 (2010). PP 101-105.
7. Satyanarayana Bhavanari, Mohiddin shaw Sk, Mallikarjun Bhavanari and Venkata Pradeep Kumar Tumurukota, " A Graph Related to the Ring of Integers Modulo  $n$ ", **Acta Ciencia Indica**, Vol. 36 M, (2010) PP 699 – 706.
- [8] N.V. Nagendram, Dr.T.V.Pradeep Kumar & Dr. Y. Venkateswara Reddy, 'Semi Simple near-fields generating from Algebraic K-theory', International Journal of Mathematical Archive(IJMA) -3(12), 2012, ISSN 2229-5046, Pp. 1-7.
- [9] N.V. Nagendram, Dr. T. V. Pradeep Kumar & Dr. Y. Venkateswara Reddy, 'A note on generating near fields effectively: Theorems from Algebraic-Theory', International Journal of Mathematical Archive -3(10), 2012, ISSN 2229-5046, Pp. 3612-3619.
- [10] N V Nagendram, T Radha Rani, Dr T V Pradeep Kumar and Dr Y V Reddy "A Generalized Near Fields and  $(m, n)$  Bi-Ideals over Noetherian regular  $\delta$ -near rings " , communicated to International Journal of Theoretical Mathematics and Applications(TMA), Greece, Athens, dated 08-04-2012.
- [11] N V Nagendram, Smt. T. Radha Rani, Dr T V Pradeep Kumar and Dr Y V Reddy "Applications of Linear Programming on optimization of cool freezers" Published in International Journal of Pure and Applied Mathematics, IJPAM-2012-17-670 Vol-75 No-3(2011).

[12] N V Nagendram, Ch Padma, Dr T V Pradeep Kumar and Dr Y V Reddy "A Note on Pi-Regularity and Pi-S-Unitality over Noetherian Regular Delta Near Rings" Published in International Electronic Journal of Pure and Applied Mathematics, IEJPAM-2012-17-669 Vol-75 No-4(2011).

[13] N V Nagendram, Ch Padma, Dr T V Pradeep Kumar and Dr Y V Reddy "Ideal Comparability over Noetherian Regular Delta Near Rings" Published in International Journal of Advances in Algebra, Vol:5,NO:1(2012),pp.43-53.

[14] N. V. Nagendram, S. Venu Madava Sarma and T. V. Pradeep Kumar, "A NOTE ON SUFFICIENT CONDITION OF HAMILTONIAN PATH TO COMPLETE GRPHS", IJMA-2(11), 2011, pp.1-6.

[15] N V Nagendram, Dr T V Pradeep Kumar and Dr Y V Reddy "On Noetherian Regular Delta Near Rings and their Extensions(NR-delta-NR)", IJCMS, Bulgaria, IJCMS-5-8-2011, Vol.6, 2011, No.6, pp. 255- 262.

[16] N V Nagendram, Dr T V Pradeep Kumar and Dr Y V Reddy "On Semi Noetherian Regular Matrix Delta Near Rings and their Extensions ", Advances in Algebra ,Volume 4, Number 1(2011), pp.51-55.

[17] N V Nagendram, Dr T V Pradeep Kumar and Dr Y V Reddy "On Boolean Noetherian Regular Delta Near Ring", International Journal of Contemporary Mathematics ,Vol. 2, No. 1-2, Jan-Dec 2011, pp. 23-27.

[18] N V Nagendram, Dr T V Pradeep Kumar and Dr Y V Reddy "On Bounded Matrix over a Noetherian Regular Delta Near Rings", Int. J. of Contemporary Mathematics, Vol. 2, No. 1-2, Jan-Dec 2011, pp.11-16 .

[19] N V Nagendram, Dr T V Pradeep Kumar and Dr Y V Reddy "On Strongly Semi Prime over Noetherian Regular Delta Near Rings and their Extensions", Int. J. of Contemporary Mathematics, Vol. 2, No. 1, Jan-Dec 2011 ,pp.69-74.

[20] N V Nagendram, Dr T V Pradeep Kumar and Dr Y V Reddy "On IFP Ideals on Noetherian Regular Delta Near Rings", Int. J. of Contemporary Mathematics, Vol. 2, No. 1, June 2011, pp 53 – 58.

[21] N V Nagendram, Dr T V Pradeep Kumar and Dr Y V Reddy "On Structure Theory and Planar of Noetherian Regular delta-Near-Rings", International Journal of Contemporary Mathematics, IJCM , 2011, pp:79-83.

[22] N V Nagendram, Dr T V Pradeep Kumar and Dr Y V Reddy "On Matrix's Maps over Planar of Noetherian Regular delta-Near-Rings ", International Journal of Contemporary Mathematics, IJCM, accepted for international conference conducted by IJSMA, New Delhi December 18, 2011, pp:203-211.

[23] N V Nagendram, Dr T V Pradeep Kumar and Dr Y V Reddy "Some Fundamental Results on P-Regular delta-Near-Rings and their extensions ", International Journal of Contemporary Mathematics, IJCM, Jan-Dec 2011, vol.2, No.1-2, PP.81-85.

[24] N V Nagendram, Dr T V Pradeep Kumar and Dr Y V Reddy "A Generalized ideal based-zero divisor graphs of Noetherian regular Delta-near rings ", International Journal of Theoretical Mathematics and Applications (TMA) accepted and published by TMA,Greece,Athens,vol.1, no.1, 2011, 59-71,,International Scientific Press, 2011.

[25] N V Nagendram, Dr T V Pradeep Kumar and Dr Y V Reddy "Inversive Localization of Noetherian regular Delta-near rings " , International Journal of Pure And Applied Mathematics published by IJPAM-2012- vol-75 No-3,SOFIA,Bulgaria.

[26] N V Nagendram, S V M Sarma, Dr T V Pradeep Kumar "A note on Relations between Barnette and Sparse Graphs" published in an International Journal of Mathematical Archive (IJMA), An International Peer Review Journal for Mathematical, Science & Computing Professionals, 2(12), 2011, pg no.2538-2542.

[27] D. R. K. Reddy, R. Santhi Kumar, T. V. Pradeep Kumar "Kaluza-Klein Universe with Cosmic Strings and Bulk Viscosity in a Scalar-Tensor Theory of Gravitation

[28] D. R. K. Reddy, R. Santhi Kumar, T. V. Pradeep Kumar, International Journal of Theoretical Physics (Impact Factor: 1.09). 04/2013; 52(4):1214-1220.

[29] P.Jyothi, T.V.Pradeep Kumar "A Note on Regular Polynomial Near- Rings" International Review of Fuzzy Mathematics, Vol 7, No.1 (2012), pp 1-5.

[30] P.Jyothi, T.V.Pradeep Kumar "A Note on Weakly Von-Neumann Regular Near-Rings" International Journal of Mathematical Sciences, Vol 11, No. 3-4, (2012), pp 373-377.

[31] P.Jyothi, T.V.Pradeep Kumar "A Note on Cohen – Macaulay Associated Graded Near-Rings" International Journal of Mathematical Archive, Vol 3, No.5 (2012), pp 1795-1801.

[32] P.Jyothi, T.V.Pradeep Kumar "A Note on Normal Ideals in Regular Near- Rings" which was published in International Journal of Mathematical Archive, Vol 3, No.5, (2012), pp 1789-1794.

[33] P.Jyothi, T.V.Pradeep Kumar "On Regular Local Near - Rings" International Journal of Mathematical Sciences and Applications, Vol 2, No.2, 2012, PP 693 – 696.

[34] S V M Sarma, T V Pradeep Kumar "Some Fundamental Results In Inference And Median Graphs" International J. of Math. Sci. & Engg. Appls. (IJMSEA) ISSN 0973-9424, Vol. 6 No. III (May, 2012), pp. 47-54.

[35] S V M Sarma, T V Pradeep Kumar " A Note On Relation Between Hamiltonian And Voronoi Graphs" International Journal of Emerging Technology and Advanced Engineering .

[36] Smt. T Madhavi Latha, Dr T V Pradeep Kumar and Dr N V Nagendram, "Commutative Prime  $\Gamma$ -near-field spaces with permuting Tri-derivations over near-field " ,IJMA Dec, 2017, Vol.8, No,12, ISSN NO.2229 – 5046, Pg No. 1 – 9.

[37] Smt. T Madhavi Latha, Dr T V Pradeep Kumar and Dr N V Nagendram, "Fuzzy sub near-field spaces in  $\Gamma$ - near-field space over a near-field " ,IJMA Nov, 2017, Vol.8, No, 12, ISSN NO.2229 – 5046, Pg No.188 – 196.

[38] Smt. T Madhavi Latha, Dr T V Pradeep Kumar and Dr N V Nagendram, “Gamma Semi Sub near-field spaces in gamma near-field space over a near-field PART I “ ,IJMA Jan, 2018, Vol. 9, No, 2, ISSN NO.2229 – 5046, Pg No.135 – 145.

[39] Smt. T Madhavi Latha, Dr T V Pradeep Kumar and Dr N V Nagendram, “Gamma Semi Sub near-field spaces in gamma near-field space over a near-field PART II “ ,IJMA 14 Feb, 2018, Vol. 9, No, 3, ISSN NO.2229 – 5046, Pg No.6 – 12.

[40] Smt. T Madhavi Latha, Dr T V Pradeep Kumar and Dr N V Nagendram, “Gamma Semi Sub near-field spaces in gamma near-field space over a near-field PART III “ , IJMA 26 Feb, 2018, Vol. 9, No, 3, ISSN NO.2229 – 5046, Pg No.86 – 95.

[41] Smt. T Madhavi Latha, Dr T V Pradeep Kumar and Dr N V Nagendram, “Gamma Semi Sub near-field spaces in gamma near-field space over a near-field PART IV “ ,IJMA 09 Mar, 2018, Vol. 9, No, 4, ISSN NO.2229 – 5046, Pg No.1 – 14.

[42] T Madhavi Latha 1 , Dr T V Pradeep Kumar 2 and Dr N V Nagendram 3 “Part III Characters of Nagendram Gamma semi sub near-field spaces of a Gamma-near-field space over near-field ” March 2020, “,IJMA, Vol. 11, No, 3, ISSN NO.2229 – 5046, Pg No .30-33.

[43] Venu Madhava Sarma .S and T.V. Pradeep Kumar “A Note On Sufficient Condition Of Hamiltonian Paths To Complete Graphs” by International Journal of Mathematical Archive-2(11), 2113-2118. 2011.

[44] Venu Madhava Sarma.S and T.V. Pradeep Kumar “A Note On Relations Between Barnette And Sparse Graphs” by International Journal of Mathematical Archive-2(12), 2538-2542, 2011.

[45] Venu Madhava Sarma.S and T.V.Pradeep Kumar “Some Fundamental Results in Inference And Median Graphs” International J. of Math. Sci. & Engg. Appls. (IJMSEA) ISSN 0973-9424, 6(3), 47-54, 2012.

[46] Venu Madhava Sarma.S and T.V.Pradeep Kumar “A Note On Planar And Sparse Graphs” by proceedings of Two Day UGC National seminar on “Modern Trends in Mathematics and Physical Sciences ( NSMTMPS - 2012) dated 20<sup>th</sup> , 21st Jan, 2012.

[47] Venu Madhava Sarma. S andT.V Pradeep Kumar “A Note On Planar And Median Graphs” by Proceedings of the Two days National Conference on Mathematical Sciences and Computational sciences organized by Department of Mathematics Adikavi Nannyya University sponsored by Andhra Pradesh State Council of Higher Education with ISBN:978-81-923777-3-5 page no: 119-120.

[48] Ravi Babu, N., Pradeep Kumar, T.V., Srinivasa Rao, P.V. : weakly 2-absorbing ideals of so-rings, International Journal of Scientific and Innovative Mathematical Research (IJSIMR),Vol. 5(7), pp. 29-35, ISSN: 2347-3142, 2017. (DOI: <http://dx.doi.org/10.20431/2347-3142.0507003>)

[49] Ravi Babu, N., Pradeep Kumar, T.V., Srinivasa Rao, P.V. : 2-absorbing primary ideals in so-rings, Jordan Journal of Mathematics and Statistics(JJMS), Vol. 11(3), pp. 229-241, 2018.

[50] Ravi Babu, N., Pradeep Kumar, T.V., Srinivasa Rao, P.V. : Semi-2-absorbing ideals in so-rings, International Journal for Research in Engineering Application & Management (IJREAM), pp. 106-111, ISSN : 2454-9150, 2018.

[51] Ravi Babu, N., Pradeep Kumar, T.V., Srinivasa Rao, P.V. : 2-absorbing and weakly 2-absorbing subsemimodules, International Journal of Mathematics Trends and Technology (IJMTT), Vol. 58(3), pp. 205-214, ISSN : 2231-5373, June 2018.

[52] Ravi Babu, N., Pradeep Kumar, T.V., Srinivasa Rao, P.V. : 2-absorbing ideals in so-rings, Accepted by International Journal of Pure and Applied Mathematics(IJPAM).

[53] Ravi Babu, N., Pradeep Kumar, T.V., Srinivasa Rao, P.V. : Weakly 2-absorbing primary ideals in so-rings, Accepted by International Journal of Pure and Applied Mathematics(IJPAM).

[54] Ravi Babu, N., Pradeep Kumar, T.V., Srinivasa Rao, P.V. : 2-absorbing primary subsemimodules over partial semirings, Communicated to Journal of Indian Mathematical Society(JIMS).

[55] Ramakrishna Mankena, T. V. Pradeep Kumar, Ch. Ramprasad, and J. Vijaya Kumar “Morphism Of M-Bipolar Fuzzy Graph” Advances in Mathematics: Scientific Journal **10** (2021), no.3, 1227–1235.

[56] Ramakrishna Mankena, T. V. Pradeep Kumar, Ch. Ramprasad, and J. Vijaya Kumar “Edge regularity on M-Bipolar Fuzzy Graph” [Annals of Pure and Applied Mathematics](#) 23(01):27-36, 2021.

[57]M. Lakshmi Kameswari., N. Naga Maruthi Kumari and T. V. Pradeep Kumar., *A graphical Approach to groups and its properties*, International Journal of Research in Engineering, IT and Social Sciences, Volume 9, Issue 04, April 2019, pp. 83-92, ISSN:2250-0588.

[58]M. Lakshmi Kameswari., N. Naga Maruthi Kumari and T. V. Pradeep Kumar., **The strongly rainbow connected number of the inverse graphs**, "Journal of Pharmaceutical Negative Results", Volume 13, Special issue 6, 2022, pp. 1817-1827, ISSN: 2229-7723

[59]M. Lakshmi Kameswari., N. Naga Maruthi Kumari and T. V. Pradeep Kumar., *Augmented Inverse graphs with respect to a group*, Journal of Applied Mathematics and Informatics(JAMI), Vol.41 (2023), No.2, pp.287-293, ISSN: 2734-1194.

[60]M. Lakshmi Kameswari., N. Naga Maruthi Kumari and T. V. Pradeep Kumar., *The Dimensions of Augmented Inverse graph*, paper communicated to Scopus indexed Journal Arab journal of mathematical sciences, ISSN: 13195166.