

RESEARCH PAPERS PUBLISHED (NATIONAL/INTERNATIONAL)

List of Publications

- 1) D.N. Purnima, "Boundary Value Problems for Nabla Fractional Difference Equations of order less than one" *Communications in International Journal of Scientific & Engineering Research*, Volume 6, Issue 10, October 2015, ISSN 2229-5518.
- 2) D.N. Purnima "Discrete Control Systems of Fractional Order" *Communications in International Journal of Nonlinear Science* Vol 21(2016) No.1, pp 37-46, ISSN 1749-3889 (print), 1749-3897 (online).
- 3) D.N. Purnima, "Monotone Iterative Technique For Periodic Point Boundary Value Problem Associated with Fractional Difference Equations", *Communications in Marathwada Mathematical Society*, Aurangabad.
- 4) D.N. Purnima, "Monotone Iterative Technique for finite systems of Nabla Fractional Difference Equations", *Communications in the International Journal of Pure and Applied Sciences*.112 Volume 4, ISSN 1311-8080.
- 5) Dr D. Naga Purnima "REMOTE EXPERIMENTATIONS OF ARTIFICIAL INTELLIGENCE IN EDUCATION" *Communications in IJFANS International Journal of Food and Nutritional Sciences* volume 11, issue 4(2022)
- 6) Dr D. Naga Purnima "DISEASE DETECTION USING MACHINE LEARNING IN HUMAN BEINGS" *Communications in IJFANS International Journal of Food and Nutritional Sciences* Volume 10, Issue 6, 2021

- 7) Dr D.N. Purnima, "Turning Delays: A mathematical model from Swarm Robotics" *Communications in International Journal of Mathematical Modelling simultaneous and applications*, Volume Issue 3, July 2021
- 8) Dr D. Naga Purnima, "CYBER SECURITY SYSTEM FOR MOBILE DEVICES USING ARTIFICIAL INTELLIGENCE" *Communications in IJFANS International Journal of Food and Nutritional Sciences* volume 11, issue 11(2022)
- 9) Dr. D.Nagapurnima, "IRRESOLUTE MAPS IN TOPOLOGICAL ORDERED SPACES" *Communications in Aryabhata Journal of Mathematics and Informatics* volume 15,, NO 2, July-December 2023
- 10) D. Naga Purnima, "Fractional Difference Equations with Initial Time Difference" *Communications in Applied Nonlinear Analysis*, ISSN: 1074-133X Vol 32 No. 8s (2025)
- 11) D. Naga Purnima, "Fuzzy Optimisation Technique in Production Industry", *International Journal of Science, Mathematics and Technology Learning*, 32(2)-2024(223-230)
- 12) D. Naga Purnima, "An extensive study on generalised rough closed sets in rough topological spaces", *International Journal of Applied Mathematics*, 38(10s), 2025(1233-1239)

13) D. Naga Purnima,” DETERMINATION OF FRACTURE TOUGHNESS OF MILD STEEL UNDER MIXED-MODE CONDITIONS USING EXPERIMENTAL FINITE ELEMENT ANALYSIS”, JOURNAL OF MECHANICS OF CONTINUA AND MATHEMATICAL SCIENCES, ISSN (Online): 2454 -7190, Vol.-20, No.-7, July (2025) pp 75-94 ISSN (Print) 0973-8975.

14) Dr.D.Nagapurnima, “Smoothing of linear partial differential equation in view of Green’s function”, Journal of Dalian University of Technology | ISSN: 1000-8608 .

15) D.Naga Purnima , “INTEGRATING BIG DATA ANALYTICS INTO HEALTHCARE DECISION SUPPORT SYSTEMS FOR BETTER PATIENT OUTCOMES”, Journal of Theoretical and Applied Information Technology, 15th August 2025. Vol.103. No.15, ISSN: 1992-8645.

16) D.Naga Purnima, “ An extensive study on generalised rough closed sets in rough topological spaces”, *International Journal of Applied Mathematics*, 38(10s), 2025(1233-1239)