



Dr. Pushpalata Pujari

School: School of Mathematical and Computational Science
Department of Computer Science and Information Technology
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Personal Webpage Link:

Qualifications: Ph.D in Computer Science

Area of Interest/Specialization: Soft Computing, Evolutionary Computing, Data Mining, Machine Learning

Experience: 16 years

Awards and Honors:

(2014-2015) Best Paper Award for the presentation on “Ensemble of Weak Learners on Recognition of Odia Numeric Digits”, In **International Seminar** on Non-Conventional Energy Sources for Sustainable Development of Rural Areas, Organized by Parthivi College of Engineering and Management, Bhilai, 21st & 22nd March 2015

Research Projects:

International Collaboration/Consultancy:

Best Peer Reviewed Publication (up-to 10):

1. **(2014-15)** “A Survey on Odia Character Recognition”, **International Journal** of Emerging Science and Engineering, **ISSN:2319-6378**, Volume-3, Issue-4, February 2015, ISSN: 2319–6378(Online), pp: 15-25, **Impact Factor: 3.21**

2. (2014-15) “Ensemble of Weak Learners on Recognition of Odia Numeric Digits”, International Journal of Engineering Research & Technology (IJERT), ISNCESR-2015, Volume-3, Issue-20, pp: 125-128, **ISSN: 2278-0181**, impact Factor: 3.127)
3. (2014-15, June) “An Efficient Technique for Recognition of Odia Numerals Using Particle Swarm Optimized Based FLANN Model with Gradient Feature”, Rungta **International Journal** of Computer Science and Information Technology, Volume 1, Issue 1, 29th – 30th , June, 2015, pp: 37-42.
4. (2015-16, August) “Real Coded Genetic Algorithm Based Neural Network Model for Odia Numerals Recognition”, **International Journal** of Research Studies in Computer Science and Engineering (IJRSCSE) August 2015, PP 7-14 ISSN 2349-4840 (Print) & ISSN 2349-4859 (Online)
5. (2016-17) “Odia Handwritten Vowel Recognition System using Slantlet Transform and Differential Evolution based Functional Link Artificial Neural Network Classifier” , **International Journal** of Advanced Research in Computer Science, **UGC Approved Journal**, Volume 8, No. 5, May-June 2017, **ISSN No. 0976-5697**, pp: 253-260
6. (2016-17) “On Development and Performance Evaluation of Novel Odia Handwritten Digit Recognition Methods”, Arabian Journal for Science and Engineering, **SCI Journal**, 20 June 2017, **ISSN 2193-567X**, DOI 10.1007/s13369-017-2652-6, pp:1-15
7. (2018-19, Feb) “Application of Cat Swarm Optimization for Recognition of Handwritten Numerals”, **International Journal** of Computer Sciences and Engineering (IJCSE), Vol.7 (3), E-ISSN: 2347-2693. (**UGC Approved Journal**)
8. (2018-19 Apr-Jun) “Recognition of Odia Handwritten Digits using Gradient based Feature Extraction Method and Clonal Selection Algorithm”, **International Journal** of Rough Sets and Data Analysis”, Volume 6, Issue 2, pp. 19-33, April-June 2019, ISSN: 2334-4598|EISSN: 2334-4601|DOI: 10.4018/IJRSDA.
9. (2019-20, June 2020), “Ensemble of Data Mining Classifiers for classification of cancer Data Set”, **International Journal** of computing and Technology”, June 2020, Volume 7, Issue 6, pp.72-80, ISSN: 2348-6069.
10. (2019-20, June 2020), “Classification of Erythemato-squamous diseases using Artificial Neural Network and Genetic algorithm”, International Journal for Research in Engineering Application & Management (IJREAM) ISSN : 2454-9150 Vol-06, Issue-03, June 2020

Recent Books/Book Chapters/Monographs etc.

1. **(2017-18)** “Application of Nature Inspired Technique to Odia Handwritten Numeral Recognition, Modeling, Book Chapter in Handbook of Research on Modelling, Analysis, and Application of Nature-Inspired Metaheuristic Algorithms, August, **IGI, Publication**, pp. 377-399, **2018**.(ISBN : 9781522528586)
2. **(2022), Book Chapter**, Classification of Pima Indian Diabetes Dataset Using Support Vector Machine with Polynomial Kernel, Book: Deep Learning, Machine Learning and IoT in Biomedical and Health Informatics, 1st edition, CRC press, ISBN: eBook ISBN9780367548445

Research Supervision: One pursuing

Administrative Responsibilities:

- 1) Member of Roaster Committee.
- 2) Member of DRC Committee.
- 3) Member of Anti Ragging Committee.
- 4) Member of Scrutiny Committee.
- 5) Member of Board of Studies.
- 6) Member of Faculty Selection Committee.
- 7) Head of the Department (From 2017 to 2021)
- 8) Member of Department Admission Committee.
- 9) Coordinator of Joint Counseling (B.Sc, Honours)
- 10) Member of NEP 2020 Task Force.
- 11) Member of Department SC/ST Committee.
- 12) Member of Department Internal Complaint Committee.
- 13) Member of Technical verification Committee.
- 14) Coordinator of Computer Repairing Committee.

Additional Information

- **(2017-2018) Co-Convener of National Conference** on Data Analytics, Machine Learning and Security (NCDAMLS-2018) organized by department of CSIT, GGV, Bilaspur, 15th -16th, February, 2018.
- **(2017-2018) Edited Proceeding of National Conference** on Data Analytics, Machine Learning and Security (NCDAMLS-2018) organized by department of CSIT (NCDAMLS-2018), GGV, Bilaspur, 15th -16th, February 2018, in electronic format with **ISBN number: 978-93-5291-457-9 in electronic format.**

- Presented papers in various National and International Conferences and Seminars.
- Delivered Invited talk on various Institutions