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### RESEARCH INTERESTS

- ✓ Software Reliability
- ✓ Machine Learning

### Academic Qualifications

- ✓ Ph.D.(Computer Science), Utkal University, Bhubaneswar, India
- ✓ M. Tech. (Computer Science),BPUT, India
- ✓ MCA, NIT, Rourkela, India

### Teaching Experience/Industrial Experience/Research Experience

- ✓ Teaching Experience : 24 years

## PUBLICATIONS

### JOURNAL ARTICLES

- [1]. C.S.K.Dash, **A.K. Behera**, S. Dehuri, and S-B. Cho. (2013). Differential Evolution Based Optimization of Kernel Parameters in Radial Basis Function Networks for Classification. *International Journal of Applied Evolutionary Computation (IJAEC)*, vol.4, issue-1, pp.56-80.
- [2]. C.S.K.Dash, **A.K.Behera**, S. Dehuri, and S-B. Cho. (2013). A Novel Radial Basis Function Networks Locally Tuned with Differential Evolution for Classification: An Application in Medical Science. *International Journal of Systems Biology and Biomedical Technologies(IJSBBT)*, vol.2, no.2, pp.33-57.

- [3]. **A. K. Behera**, C.S.K. Dash, and S. Dehuri. (2013). A Brief Review of accuracy of ClassifiersBased on Radial Basis Function Neural Networks. *The IUP Journal of Computer Science*,7(2)., pp. 7-24.
- [4]. C.S.K Dash, **A.K. Behera**, S Dehuri, S-B Cho, GN Wang. (2015). TowardsCrafting an ImprovedFunctional Link Artificial Neural NetworkBased on Differential Evolution and FeatureSelection.*Informatica*,39 (2),pp.195-208.
- [5]. C.S.K Dash, **A.K. Behera**, S Dehuri, S-B Cho.(2016). Radial Basis Function Neural Networks: A Topical State-of-the-Art Survey.*Open Computer Science*,6(1), 33-63.
- [6]. C.S.K. Dash, **A.K. Behera**, S.C. Nayak, S. Dehuri, S.B. Cho. (2019). An Integrated CRO and FLANN Based Classifier for a Non-Imputed and InconsistentDataset. *International Journal on Artificial Intelligence Tools*, 28(03), 1950013.
- [7]. **A. K. Behera**, M. Panda, C. S. K. Dash, S. Dehuri& R. Mall. (2021). A state-of-the-art neuro-swarmapproach for prediction of software reliability. *International Journal of Advanced Intelligence Paradigms*, 20(3-4), 296-322.Inderscience.
- [8]. **A. K. Behera**, M. Panda, & S. Dehuri. (2021). Software reliabilityprediction by recurrentartificialchemicallink network. *International Journal of System Assurance Engineering and Management*, 12(6), 1308-1321. Springer.
- [9]. C.S.K. Dash, **A.K. Behera**, S.Dehuri& S.B.Cho, (2022). Building a novel classifier based on teachinglearning-basedoptimization and radial basis function neural networks for non-imputeddatabaseswithirrelevantfeatures. *AppliedComputing and Informatics*, 18(1/2), 151-162.
- [10]. C.S.K. Dash, **A.K. Behera**, S. Dehuri&A. Ghosh. (2023). An outliersdetection and eliminationframework in the classification task of data mining. *Decision Analytics Journal*, 6, 100164.
- [11]. C.S.K. Dash, S.C. Nayak, **A.K. Behera**, S. Dehuri. (2023). A Neuro-FuzzyPredictorTrained by an ElitismArtificial Electric Field Algorithm for Estimation of Compressive Strength of Concrete Structures. *Informatica*, 47(5).
- [12]. **A. K. Behera**, M. Panda, &S. Dehuri. (2024). A recurrent ANFIS tuned by modifieddifferentialevolution for efficient prediction of software reliability. *Evolutionary Intelligence*, 1-14.

## CONFERENCE PAPERS

- [1]. C.S.K. Dash, **A.K. Behera**, M.K. Pandia, and S. Dehuri. (2013). NeuralNetworks Training Based on Differential Evolution in Radial BasisFunction Networks for Classification of Web Logs. *International*

- Conference on Distributed Computing and Internet Technology (ICDCIT 2013), Springer LNCS, vol.7793, pp.183-194, Bhubaneswar, India.
- [2]. P.Sahoo, **A.K. Behera**, M. K. Pandia, C.S. K. Dash, S. Dehuri. (2013)). On the Study of GRBF and Polynomial Kernel Based Support Vector Machine in Web Logs.1st International Conference on Emerging Trends and Applications in Computer Science (ICETACS), IEEE, pp.1-5, Meghalaya, India, ISBN 978-1-4673-5250-5.
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- [7]. C.S.K. Dash, **A.K. Behera**, S.C. Nayak, & S. Dehuri. (2021). QORA-ANN: Quasi Opposition Based Rao Algorithm and Artificial Neural Network for CryptocurrencyPrediction. In 2021 6th International Conference for Convergence in Technology (I2CT) (pp. 1-5). IEEE.
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- [9]. D.K. Behera, S. Dash, **A.K. Behera**, C.S.K., Dash. (2021). Extreme Gradient Boosting and Soft Voting Ensemble Classifier for DiabetesPrediction. In 2021 19th OITS International Conference on Information Technology (OCIT) (pp. 191-195). IEEE.
- [10]. **A.K. Behera**, M. Panda, S.C. Nayak, & C.S.K. Dash, (2022). An Artificial Electric Field Algorithm and Artificial Neural Network-BasedHybrid Model for Software ReliabilityPrediction. In Computational Intelligence in Data Mining: Proceedings of ICCIDM 2021 (pp. 271-279). Singapore: Springer Nature Singapore.

- [11]. S.C. Nayak, C.S.K. Dash, **A.K. Behera**, & S. Dehuri, (2022). An ElitistArtificial-Electric-Field-Algorithm-BasedArtificial Neural Network for Financial Time SeriesForecasting. In BiologicallyInspired Techniques in ManyCriteriaDecisionMaking: Proceedings of BITMDM 2021 (pp. 29-38). Singapore: Springer Nature Singapore.
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## ANY OTHER

### BOOK CHAPTER

1. C.S.K. Dash, **A.K. Behera**, & S.C.Nayak. (2018).DE-BasedRBFNs for ClassificationwithSpecial Attention to Noise Removal and IrrelevantFeatures. *Hand Book of Research on Modeling, Analysis, and Application of Nature-InspiredMetaheuristicAlgorithms*, 218, IGI Global.
2. **A. K. Behera**, & M. Panda, (2021). Efficient Software ReliabilityPredictionWithEvolutionary Virtual Data Position Exploration. *In Handbook of Research on AutomatedFeature Engineering and Advanced Applications in Data Science* (pp. 275-285). IGI Global.
3. C.S.K, Dash, **A.K. Behera**& S.C. Nayak, (2021). 14 Online Clinic Appointment System Using Support Vector Machine. *Cognitive ComputingUsing Green Technologies Modeling Techniques and Applications*, 239.
4. C. S. K. Dash,**A.K. Behera**, S. C. Nayak,&S. Dehuri. (2021). Usage of Convolutional Neural Networks in Real-Time Facial Emotion Detection. *In Cognitive ComputingUsing Green Technologies* (pp. 259-273). CRC Press.