



Ajit Kumar Behera, M. Tech

Designation : Sr. Asst. Professor

Department : Computer Science and Engineering
(JOINED THE INSTITUTE IN 2006)

Contact : +919437147840, 7008061186 (M)

Email : ajitcs@silicon.ac.in, ajit_behera@hotmail.com

RESEARCH INTERESTS

- ✓ Software Reliability
- ✓ Soft Computing

Academic Qualifications

- ✓ Ph.D. (Cont.) in Computer Science, Utkal University, Bhubaneswar, India
- ✓ M. Tech. (Computer Science), Silicon Institute of Technology, BPUT, India
- ✓ MCA, Regional Engineering College, Rourkela, India

Teaching Experience/Industrial Experience/Research Experience

- ✓ 15 years teaching experience (Silicon Institute of Technology, Bhubaneswar, India)
- ✓ 6 years teaching experience. (Bhadrak Institute of Engineering & Technology, Bhadrak, India)

PUBLICATIONS

JOURNAL & CONFERENCE

- [1]. C.S.K. Dash, **A.K. Behera**, S. Dehuri, and S-B. Cho, "Differential Evolution Based Optimization of Kernel Paramètres in Radial Basis Function Networks for Classification", International Journal Applied Evolutionary Computing, vol.4, issue-1, pp.56-80, 2013.
- [2]. C.S.K. Dash, **A.K. Behera**, S. Dehuri, and S-B. Cho, "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, 2013.

- [3]. C.S.K Dash, **A.K. Behera**, S Dehuri, S-B Cho, GN Wang, "Towards Crafting an Improved Functional Link Artificial Neural Network Based on Differential Evolution and Feature Selection", *Informatica* 39 (2), pp.195-208,2015.
- [4]. C.S.K Dash, **A.K. Behera**, S Dehuri, S-B Cho. "Radial Basis Function Neural Networks: A Topical State-of-the-Art Survey". *Open Computer Science*, 6(1), 33-63,2016.
- [5]. **A.K. Behera**, C.S.K. Dash, and S. Dehuri, "A Brief Review of Accuracy of Classifiers Based on Radial Basis Function Neural Networks", *The IUP Journal of Computer Science*, 7(2). 7-24, 2013.
- [6]. C.S.K. Dash, **A.K. Behera**, M.K. Pandia and S. Dehuri, "Neural Networks Training Based on Differential Evolution in Radial Basis Function 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,2013.
- [7]. P. Sahoo, **A.K. Behera**, M. K. Pandia, C.S. K. Dash, S. Dehuri, "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, 2013,ISBN 978-1-4673-5250-5.
- [8]. **A.K. Behera**, C.S.K. Dash, S. Dehuri, "Classification of Web Logs Using Hybrid Functional Link Artificial Neural Networks", *Proceedings of the 3rd International Conference on Frontiers of Intelligent Computing theory and Applications (FICTA)2014*. *Advances in Intelligent Systems and Computing*, 327, 255-263, Bhubaneswar, India,2014.
- [9]. **A.K. Behera**, S.C. Nayak, C.S.K. Dash, S. Dehuri, & M. Panda. "Improving Software Reliability Prediction Accuracy Using CRO-Based FLANN". *An Innovations in Computer Science and Engineering* pp.213-220, 2019.
- [10]. C.S.K. Dash, **A.K. Behera**, S.C. Nayak, S. Dehuri, S.B. Cho, "An Integrated CRO and FLANN Based Classifier for a Non-Imputed and Inconsistent Dataset." *International Journal on Artificial Intelligence Tools*28.03 (2019): 1950013.
- [11]. C.S.K. Dash, **A.K. Behera**, S. Dehuri, S.B. Cho "Building a novel classifier based on teaching learning based optimization and radial basis function neural networks for non-imputed database with irrelevant features." *Applied Computing and Informatics* (2019).
- [12]. **A.K. Behera**, & M. Panda, M. (2019, December). Software Reliability Prediction with Ensemble Method and Virtual Data Point Incorporation. In *International Conference on Biologically Inspired Techniques in Many-Criteria Decision Making* (pp. 69-77). Springer, Cham.

- [13]. S.C. Nayak, C.S.K Dash, **A.K. Behera**, S. Dehuri, (2020). Improving Stock Market Prediction Through Linear Combiners of Predictive Models. In *Computational Intelligence in Data Mining* (pp. 415-426). Springer, Singapore.
- [14]. C.S.K. Dash, **A. K. Behera**, S. Dehuri, S., & Cho, S. B. (2020). Building a novel classifier based on teaching learning based optimization and radial basis function neural networks for non-imputed database with irrelevant features. *Applied Computing and Informatics*.
- [15]. C.S.K. Dash, **A.K. Behera**, S.C. Nayak, & S. Dehuri. (2021, April). QORA-ANN: Quasi Opposition Based Rao Algorithm and Artificial Neural Network for Cryptocurrency Prediction. In *2021 6th International Conference for Convergence in Technology (I2CT)* (pp. 1-5). IEEE.
- [16]. **A. K. Behera**, M. Panda, & S. Dehuri. (2021). Software reliability prediction by recurrent artificial chemical link network. *International Journal of System Assurance Engineering and Management*, 12(6), 1308-1321. Springer.
- [17]. **A. K. Behera**, M. Panda, C. S. K. Dash, S. Dehuri & R. Mall. (2021). A state-of-the-art neuro-swarm approach for prediction of software reliability. *International Journal of Advanced Intelligence Paradigms*, 20(3-4), 296-322. Inderscience.
- [18]. S.C. Nayak, C.S.K., Dash, **A.K. Behera**, B.B. Mishra. (2021, December). A machine learning approach for estimating compressive strength of concrete structures using an artificial electric field algorithm-based neuro-fuzzy predictor. In *2021 19th OITS International Conference on Information Technology (OCIT)* (pp. 229-233). IEEE.
- [19]. D.K. Behera, S. Dash, **A.K. Behera**, C.S.K., Dash. (2021, December). Extreme Gradient Boosting and Soft Voting Ensemble Classifier for Diabetes Prediction. In *2021 19th OITS International Conference on Information Technology (OCIT)* (pp. 191-195). IEEE.

ANY OTHER

BOOK CHAPTER

1. C.S.K. Dash, **A.K. Behera**, & S.C. Nayak. (2018). DE-Based RBFNs for Classification with Special Attention to Noise Removal and Irrelevant Features. Hand Book of Research on Modeling, Analysis, and Application of Nature-Inspired Metaheuristic Algorithms, 218, IGI Global.

2. **A. K. Behera**, & M. Panda, (2021). Efficient Software Reliability Prediction With Evolutionary Virtual Data Position Exploration. In *Handbook of Research on Automated Feature 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 Computing Using 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 Computing Using Green Technologies* (pp. 259-273). CRC Press.