



Pulak Sahoo, Ph.D.

Designation : Associate Professor

Department : Department of Computer Science and Engineering
(JOINED THE INSTITUTE IN 2010)

Contact : + 917205176390 (M)

Email : pulak.sahoo@silicon.ac.in, sahuo_pulak@yahoo.com

RESEARCH INTERESTS

- ✓ Software Engineering and Software Testing:
- ✓ Early Test Effort Estimation using UML Models
- ✓ Application of Soft Computing Techniques in Software Development and Testing
- ✓ Model based Software Testing
- ✓ Test Case Generation from UML Models
- ✓ Application of Soft Computing Techniques in web based and medical applications

Academic Qualifications

- ✓ Ph. D. (Computer Science and Engineering), KIIT University, India
- ✓ M. Tech (Computer Science and Engineering), Biju Patnaik Institute of Technology, India
- ✓ MCA, A.U. College of Engineering, Visakhapatnam, India

Teaching Experience/Industrial Experience/Research Experience

- ✓ 11 years Teaching experience (Silicon Institute of Technology, India)
- ✓ 13 years IT Industry experience (Capgemini, Wipro, HP)

JOURNAL & CONFERENCES

- [1]. **Sahoo, Pulak**, Chaudhury, P., Mohanty, J. R., "Improving Effort Estimation of Software Products by augmenting Class Point Approach with Regression Analysis", *Intelligent Decision Technologies*, IOS Press, vol. 22, no.2, 2022, pp. 357-367. **(Scopus indexed)**
- [2]. **Sahoo, Pulak**, Chaudhury, P., Mohanty, J. R., "Model-based Test Effort Estimator-a Case Study", 2021 19th OITS International Conference on Information Technology (OCIT), vol. 22, no.2, 2021, pp. 96-99. **(Scopus indexed)**
- [3]. **Sahoo, Pulak**, Mohanty, J. R., "System Test Effort Estimation Using Class Model: A Case Study", *Smart Intelligent Computing and Applications (Springer)*, vol. 24, no. 4, pp. 239-250, 2020 **(Scopus indexed)**
- [4]. **Sahoo, Pulak**, Mohanty, J. R., "Test Effort Estimation in early stages using Use Case and Class Models for Web Applications", *International Journal of Knowledge-Based and Intelligent Engineering Systems*, IOS Press, vol. 22, no.3, 2018, pp. 215-229. **(Scopus & SCI indexed)**
- [5]. **Sahoo, Pulak**, Mohanty, J.R, Sahoo D., "Early System Test Effort Estimation Automation for Object-Oriented Systems", *Springer, Information and Decision Sciences*, pp 325-333, 2018. **(Scopus indexed)**
- [6]. **Sahoo, Pulak**, Mohanty, J.R, "Early Test Effort Prediction using UML Diagrams", *Indonesian Journal of Electrical Engineering and Computer Science*, vol. 5, no.1, pp. 220-228, 2017 **(Scopus indexed)**
- [7]. **Sahoo, Pulak**, Behera, A. K., Pandia, M. K., Dash, C. S. K., Dehuri, S., " On the study of GRBF and polynomial kernel based support vector machine in web logs", 2013 1st International Conference on Emerging Trends and Applications in Computer Science (ICETACS) (IEEE), pp. 1-5, 2013. **(Scopus indexed)**
- [8]. Dash, C. S. K., Saran, A., **Sahoo, Pulak**, Dehuri, S., Cho, S. "Design of self-adaptive and equilibrium differential evolution optimized radial basis function neural network classifier for imputed database", *Pattern Recognition Letters (Elsevier)*, vol. 80, pp. 76-83, 2016 **(Scopus indexed)**
- [9]. Dash, C. S. K., **Sahoo, Pulak**, Dehuri, S., Cho, S. "An empirical analysis of evolved radial basis function networks and support vector machines with mixture of kernels", *International Journal on Artificial Intelligence Tools (World Scientific)*, vol. 24, no. 4, 2015 **(Scopus indexed)**

[10]. **Sahoo, Pulak**, "An empirical analysis of evolved radial basis function networks and support vector machines with mixture of kernels", Biometrics and Bioinformatics, vol. 5, no. 1, 2013, pp. 25-33 (**Scopus indexed**)

ANY OTHER

Book Chapter
Conferences attended