Rabindra Kumar Dalei, Ph.D.

Designation: Associate Professor

Department: Department of Computer Science & Engineering

(JOINED THE INSTITUTE IN THE YEAR 2009)

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RESEARCH INTERESTS
- ✓ Wireless Sensor Networks
- ✓ Mobile Computing
- ✓ Machine Learning

Academic Qualifications
- ✓ Ph.D.(CSE), Siksha "O" Anusandhan University India
- ✓ M.Tech.(CS), Utkal University, India

Teaching Experience/Industrial Experience/Research Experience
- ✓ 23 years of teaching experience

PUBLICATIONS

JOURNAL ARTICLES & CONFERENCE PAPERS

[1] Yogasambhuta Dash, **Rabindra Kumar Dalei**, and Kasturi Dhal, Modified Genetic Algorithms (GA) for Load balancing in Cloud Computing, journal of Information Systems Engineering and Management 10 (54s), pp.1-8, 2025.

[2] S. Sahoo, **R. K Dalei**, S. K Rath, U. K Sahu, Selection of PSO parameters based on Taguchi design-ANOVA-ANN methodology for missile gliding trajectory optimization, Cognitive Robotics, 3, pp. 158-172.

[3] Shubhashree Sahoo, **Rabindra Kumar Dalei**, Subhendu Kumar Rath, Uttam Sahu, Krishneshwar Tiwary:"Comparative Performance Analysis of Particle Swarm Optimization and Artificial Bee Colony Algorithm for Optimization of Missile Gliding Trajectory", OITS International Conference on Information Technology 2022.

[4] Shubhashree Sahoo, **Rabindra Kumar Dalei**, Subhendu Kumar Rath, Uttam Sahu, Krishneshwar Tiwary:"Comparative Performance Analysis of Genetic Algorithm and Differential Evolution for Optimization of Missile Gliding Trajectory", OITS International Conference on Information Technology 2022.

[5] Shubhashree Sahoo, **Rabindra Kumar Dalei**, Subhendu Kumar Rath, Uttam Sahu, Krishneshwar Tiwary:" Parameter optimization of genetic algorithm utilizing Taguchi design for gliding trajectory optimization of missile",Elsevier- Journal of Computational Mathematics and Data Science"(**Scopus-Indexed**)2022.

[6] Shubhashree Sahoo, **Rabindra Kumar Dalei**, Subhendu Kumar Rath, Uttam Sahu, Krishneshwar Tiwary:"Particle swarm optimization algorithm parameter tuning using Taguchi method for gliding trajectory optimization of missile", Elsevier- Journal of Computational Mathematics and Data Science"(**Scopus-Indexed**)2022.

[7] Bhagwat Prasad Chaudhury, **Rabindra Kumar Dalei**, Ajit Kumar Nayak, "HEERAC-A Hybrid Energy Efficient Routing Algorithm based on K-means clustering for Wireless Sensor Networks",Journal of Huazhong University of ScienceandTechnology, Volume 50,issue 4,ISSN-1671-4512,2021(**SCOPUS Indexed**)

6] Puspanjali Mallik, Ajit Kumar Nayak, **Rabindra Kumar Dalei**,"Comparative Analysis of Various Task Scheduling Algorithms in Cloud Environment", OCIT-OITS International Conference on Information Technology, IEEE, **DOI:** 10.1109/OCIT53463.2021.00019, 2021.(**SCOPUS Indexed**)

[7] **Rabindra Kumar Dalei**, Ajit Kumar Nayak & Satyananda Champati Rai, Content Centric Framework for Wireless Sensor Networks, Journal of Engineering and Applied Sciences, 12 (22 SI), pp.6234-6239,DOI:10.3923/jeasci.2017.6234.6239,2017 (**SCOPUS Indexed**)

[8] **Rabindra Kumar Dalei**, S.C.Rai, and A. K. Nayak, "A Content Aware Framework with Optimal Path Selection in Wireless Sensor Networks,"Journal of Engineering and Applied Sciences, 13(20),pp.8629- 8633, DOI: 10.3923/jeasci.2018.8629.8633, 2018 (**SCOPUS Indexed**).

[9] **Rabindra. Kumar. Dalei,** A. K. Nayak, and S.C.Rai, "LowEnergy Stable Election Content Matching Routing Protocol for Wireless Sensor Network," International Journal of Control Theory and Application,10(13),pp.55-64, 2017(**SCOPUS Indexed**).

[10] Pradyumna Kumar Tripathy, Ranjan Kumar Dash, **Rabindra Kumar Dalei** and Chitta Ranjan Tripathy, A Path-Set Based Approach for Two- Terminal Reliability Computation of Interconnection Networks, Journal of Engineering and Applied Sciences, Med well Journals,Vol.13,No.3,pp. 3243-3249,2018(**SCOPUS Indexed**).

[11] **Rabindra Kumar Dalei,** Satyananda Champti Rai, and Ajit Kumar Nayak, Content Routing Framework for Wireless Sensor Networks, International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering - (ICRIEECE), IEEE **DOI:** 10.1109/ICRIEECE44171.2018.9008993, 2018(**SCOPUS Indexed**).

[12] **Rabindra Kumar Dalei,** Real-Time Health Monitoring through Smart and Content-Aware Sensor Network, International Conference on Medical Informatics 2016 (ICMI2016), 2016

[13] **Rabindra Kumar Dalei,** Suchismita Rout, An Adaptive Power Aware Framework for Energy Efficient Wireless AdHoc Network, Int.J.of Recent Trends in Engineering & Technology, Vol. 11, Issue:2, pp. :248-253, 2014

[14] Damodar Nayak & **RabindraKumar Dalei**, Multi-Class Traffic Management in 4G Network, International Journal of Advances in Engineering &Technology, Vol. 4, Issue 2, pp. 138-147, 2012.

[15] **Rabindra K Dalei,** Simulation and Analysis of DSDV and AODV forMobile Ad Hoc Netowrk (MANET) Using NS-2, National conference on Future Trends in Information & Communication Technology & Applications (NCICT-11), pp. 97-100, 2011.

ANY OTHER

CONFERENCES ATTENDED

- Participate in the International Virtual Conference on "Wearable Technologies & Applications: Emerging Trends and Innovation" (WeTA 2020) at Center for Wearable Technology and Applications, School of Electronics Engineering,VIT, Velloreon, 26th and 27thJune 2020.

- Participated in IEEE International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering (ICRIEECE2018) on 27th–28thJuly, 2018 at KIIT, Bhubaneswar as a delegate and presented a paper on "Content Routing Frame work for Wireless Sensor Network".

- Participated in International Conference on Innovative Research in Engineering and Science (IRES2017) organized by Asian Institute of Technology Conference Center, Thailand,16-17June 2017 as a delegate and presented papers on "Content Centric Framework for Wireless Sensor Network".

- Participated in 2nd International Conference on Sustainable Computing Techniques in Engineering, Science and Management (SCESM 2017) organized by Jain College of Engineering, Belagavi (Near Goa), India, January27-28,2017as a delegate and presented paper on "LowEnergy Stable Election Content Matching Routing Protocol for Wireless Sensor Network".

- Participated in International Conference on Medical Informatics 2016 (ICMI2016) on 26th-28th February 2016 at AIIMS, Bhubaneswar as a delegate and presented a paper on "Real- Time Health Monitoring through Smart and Content-Aware Sensor Network".