



## **ANUP KUMAR BEHERA**

### **Assistant Professor**

Department of Mathematics

School of Engineering

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## **1. ABOUT**

Dr. Anup Kumar Behera is currently an assistant professor in the Department of Mathematics at the School of Engineering, Dayananda Sagar University in Karnataka, India. Before this role, he served as an assistant professor at ITS Engineering College in Greater Noida. He earned his Ph.D. in mathematics from SRM Institute of Science and Technology. Additionally, he holds a Master of Science (M.Sc.) in Mathematics from North Orissa University in Odisha and a Bachelor of Science (B.Sc.) in Mathematics from F.M. University, Odisha.

Dr Anup's research interests encompass software reliability, innovation diffusion modelling, soft computing, machine learning, and optimal control. He has authored numerous research articles in various peer-reviewed journals, including those indexed by SCIE and Scopus, and has contributed chapters to books on Advances in Mathematical and Computational Sciences. Additionally, Dr Anup actively serves as a reviewer for esteemed journals. His teaching experience includes university-level mathematics courses and computer programming, covering topics such as applied operations research, complex analysis, real analysis, abstract algebra, linear algebra, calculus, applied statistics, and programming in MATLAB, R, and Python. He places a strong emphasis on active learning and the integration of computational methods.

## **2. RESEARCH INTERESTS**

- Software reliability
- Innovation Diffusion Modelling
- Soft Computing
- Machine Learning
- Optimal Control

## **3. ACADEMIC QUALIFICATIONS**

- Ph.D. in Mathematics (Software reliability) — SRM institute of science and technology, 2025
- Master's Degree — North Orissa University, 2018
- Bachelor's Degree — F.M. University (Balangi degree college), 2016

## **4. RESEARCH HIGHLIGHTS**

- Publications: 7
- Books/Book Chapters: 1
- Awards/Recognitions: 1
- Academic/Conference Roles: 5
- Reviewer/Editorial Activities: 10

## 5. SELECTED PUBLICATIONS

1. Anup Kumar Behera, Priyanka Agarwal, "Enhanced software reliability prediction using a hybrid PSO-GWO algorithm," [International Journal of System Assurance Engineering and Management, 17, 1-15, 2026.  
<https://link.springer.com/article/10.1007/s13198-026-03321-w>
2. Priyanka Agarwal, Anup Kumar Behera, Sulekha Rani, "An SRGM with a Gompertz TEF Subject to Uncertain Operating Environment]," [National Academy Science Letters, 1-10, 2026.  
<https://link.springer.com/article/10.1007/s40009-026-02010-3>
3. Anup Kumar Behera, Priyanka Agarwal, "Modeling software reliability with power law testing effort function under operational uncertain environment," Journal of Software: Evolution and Process, 37, e70037, 2025.  
<https://onlinelibrary.wiley.com/doi/abs/10.1002/smr.70037>
4. Anup Kumar Behera, Priyanka Agarwal, "Effect of weibull TEF on SRGM subject to field environment," [International Journal of Reliability, Quality and Safety Engineering], 32, 2450054, 2025.  
<https://www.worldscientific.com/doi/abs/10.1142/S0218539324500542>

## 8. ACADEMIC PROFILES

- Google Scholar: <https://scholar.google.com/citations?user=oiRX7cMAAAAJ&hl=en>
- ORCID: <https://orcid.org/0000-0001-7513-6293>
- ResearchGate: [https://www.researchgate.net/profile/Anup-Behera-3?ev=hdr\\_xprf](https://www.researchgate.net/profile/Anup-Behera-3?ev=hdr_xprf)

## 9. CONTACT

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