LARAMBHA COLLEGE, LARAMBHA

Faculty Profile

Name: Dr. Subal Ranjan Sahu

Designation: Lecturer in Mathematics

Department: Mathematics

Areas of Interest/Specialization: Numerical Solution of Singular Perturbation Problems, Numerical Analysis, Partial Differential Equation

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1.Educational Qualifications:

SI No	Qualification	Institution	Year
01	M.Sc. in Mathematics	Pondicherry University	2015
02	Ph.D	National Institute of Technology Rourkela, India	2021
03	GATE		2015
04	JRF(NET)	CSIR	2017

2. Teaching Experience (in year):

SI No.	Organization	Position Held	Duration
01	Rajendra (Autonomous) College, Balangir	Guest Lecturer	08/2015- 12/2015
02	The ICFAI University, Agartala-799210,	Assistant Professor	10/2020-09/2021
03	C.V Raman Global University, Bhubaneswar	Assistant Professor	10/2021-5/2022
04	Larambha College Larambha	Lecturer	5/2022-Till Date

3. Research and Publication:

Publications (Best 5 Only):

	A) Book Chapters:
1	Polynomial Paradigms: Trends and applications in science and engineering, IOP Publishing Ch-4:Polynomial-based numerical methods for singularly perturbed differential equation on layer-adapted meshes
	B) Research Papers:
1	S. R. Sahu, J. Mohapatra, A second order finite difference scheme for singularly perturbed initial value problem on layer adapted meshes, Int. J. Model. Simul. Sci. Comput., 10(3): 1950016, 2019. https://doi.org/10.1142/S1793962319500168
2	S. R. Sahu J. Mohapatra, Numerical study of time delay singularly perturbed parabolic partial differential equations involving space shifts, Eng. Comput., 38(6),2882–2899, 2021. https://doi.org/10.1108/EC-07-2020-0369

3	S. R. Sahu J. Mohapatra, Numerical investigation for solutions and derivatives of singularly perturbed initial value problems, Int. J. Math. Model. Numer. Optim., 11(2):123–142, 2021. https://doi.org/10.1504/IJMMNO.2021.114480
4	S. R. Sahu, J. Mohapatra, Parameter uniform numerical methods for singularly perturbed delay dierential equation involving two small parameters, Int. J. Appl. Comput. Math., 5(5): 129, 2019. https://doi.org/10.1007/s40819-019-0713-0
5	S. R. Sahu, J. Mohapatra, Parameter uniform numerical methods for singularly perturbed delay differential equation involving two small parameters, Int. J. Appl. Comput. Math., 5(5): 129, 2019. https://doi.org/10.1007/s40819-019-0713-0

4. Seminars/Conferences/Symposiums (Recent 5):

1	A robust numerical approach for singularly perturbed third order boundary value problem on layer adapted meshes, National Conference on Recent Advances in Mathematics and its Applications, NCRAMA-2018, NIT Rourkela, Dec. 07- Dec 08, 2018.
2	Parameter-uniform hybrid numerical scheme for singularly perturbed initial value problem, National Conference on Computational Modeling of Fluid Dynamics Problems, CMFDP-2019, NIT Warangal, Jan. 18- Jan 20, 2019.
3	Spline-based numerical method for two parameters singularly perturbed problems, International Conference on Applications of Basic Sciences, ICABS-2019, Bishop Heber College Tiruchirappalli, Nov. 19- Nov 21, 2019.
4	Numerical investigation for time delay singularly perturbed parabolic problems involving space shifts, International Conference on Advances in Differential Equations and Numerical Analysis, ADENA-2020, Indian Institute of Technology Guwahati, Oct. 12 - Oct. 15, 2020.

5. FDP/ Refresher Course:

1	Short term course on Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt., of India, Pondicherry University, 15 March, 2015.