



Arya Vidyapeeth College
আর্য্য বিদ্যাপীঠ মহাবিদ্যালয়



Personal profile

Name of the Faculty: Dr. Deepshikha Sarma

Designation: Assistant Professor

Personal Information
Date of Birth: 07-08-1993
Gender: Female
Nationality: Indian

Address for correspondence:

Arya Vidyapeeth College
Guwahati-781016
Dist :Kamrup (M)

Permanent Address:

Puberun Path, Jyotinagar
Pathsala,
Bajali- 781325

e-mail ID :dr.deepshikasarma@gmail.com
Contact no.: 8753969885

Date of joining the present service: 21.08.2021

Academic Qualification
MSc, Ph.D.

Teaching Experience
In UG level:

In PG level:



Date of obtaining Ph.D. degree: 20/12/2021, National Institute of Technology Agartala
Title of Ph.D. Thesis: “STUDY OF EMERGENCY RESOURCE MANAGEMENT PRECIPITATED IN NATURAL DISASTER UNDER UNCERTAIN ENVIRONMENT”.

Research
experience

Length of research experience: 04 Years
Specialization (Area of interest): Transportation Problem, Mathematical Modelling, Disaster management.

Publications

No. Of Books authored: 02

1. **Deepshikha Sarma**, Amrit Das, Uttam Kumar Bera, “Generalized type-2 intuitionistic fuzzy approaches for allocation and redistribution of resources in the disaster operation” (**Recent Advances in Intelligent Information Systems and Applied Mathematics**, Springer, 2020.)
2. **Deepshikha Sarma**, Amrit Das, Uttam Kumar Bera, “Uncertain demand allocation with insufficient resource in disaster by using Facebook disaster map under limited fund”(**Recent Advances in Intelligent Information Systems and Applied Mathematics**, Springer, 2020.)

No. Of Research paper published: 08

Published Papers:

A. SCI and SCOPUS indexing Journal:

1. **Deepshikha Sarma**, Amrit Das, Uttam Kumar Bera, Ibrahim M. Hezam, “Redistribution for cost minimization in disaster management under uncertainty with trapezoidal neutrosophic number”. (Published in **Computers in Industry**, 109, 226-238, 2019, **IF 4.769**)
2. **Deepshikha Sarma**, Amrit Das, Uttam Kumar Bera, “An optimal redistribution plan considering aftermath disruption in disaster management”. (Published in **Soft Computing**, pp.1-18, 2019, DOI: <https://doi.org/10.1007/s00500-019-04287-7> **IF 3.050**).
3. **Deepshikha Sarma**, Amrit Das, Uttam Kumar Bera , “A mathematical model for resource allocation in emergency situations with the co-operation of NGOs under uncertainty” (Publish in **Computer and Industrial Engineering**, 137,106000, 2019, DOI: <https://doi.org/10.1016/j.cie.2019.106000>, **IF 3.518**)
4. **Deepshikha Sarma**, Amrit Das, Uttam Kumar Bera, “Uncertain demand estimation with optimization of time and cost using Facebook disaster map in emergency relief operation”, (Accepted in **Applied Soft Computing**, 87, 105992, 2020, DOI:<https://doi.org/10.1016/j.asoc.2019.105992> **IF 4.873**).
5. **Deepshikha Sarma**, Amrit Das, Pankaj Dutta, Uttam Kumar Bera, “A cost minimization resource allocation model for disaster relief operations with an information crowdsourcing-based MCDM approach” (Published in **IEEE Transactions on Engineering Management**, DOI:10.1109/TEM.2020.3015775, **IF 2.05**).
6. Akash Singh,Uttam Kumar Bera, **Deepshikha Sarma**, “Rough-interval in a two-stage solid transportation problems and its solution” *Int. J. Logistics Systems*

and Management, Vol. 35, No. 4, pp.466–485, 2020.

7. Nilabhra Paul, **Deepshikha Sarma**, Akash Singh and Uttam Kumar Bera, A Generalized Neutrosophic Solid Transportation Model with Insufficient Supply, **Neutrosophic Sets and Systems**, vol. 35, 2020, pp.177-187. DOI: 10.5281/zenodo.3951659

B. Conference publication:

8. **Deepshikha Sarma**, Uttam Kumar Bera, Akash Singh, “A Multi-Objective Post-Disaster Relief Logistic Model” (Published in **IEEE Xplore, IEEE Region 10 Humanitarian Technology Conference (R10-HTC)** (pp. 205-208). IEEE, 2017).
9. Akash Singh, Uttam Kumar Bera, **Deepshikha Sarma**, “Two stages post-disaster humanitarian logistics” (Published in **IEEE Xplore, IEEE Region 10 Humanitarian Technology Conference (R10-HTC)** (DOI: 10.1109/R10-HTC.2017.8288952). IEEE, 2017).
10. **Deepshikha Sarma**, Amrit Das, Uttam Kumar Bera, “A debris removal plan for emergency response minimizing cost and time under Neutrosophic environment “(Published in 2019 IEEE International Conference on Fuzzy Systems (**FUZZ-IEEE**) pp. 1-6, 2019)
11. **Deepshikha Sarma**, Amrit Das, Uttam Kumar Bera, Akash Singh, “A Post-Disaster Humanitarian Relief Logistic Model: Evacuation and Transportation” (Published in **IEEE Xplore**, pp. 1-5, IEEE, 2018).
12. Nilabhra Paul, **Deepshikha Sarma**, Uttam Kumar Bera, “A Neutrosophic Solid Transportation Model with Insufficient Supply”(Published in **IEEE Xplore, 2019 IEEE Region 10 Symposium (TENSYP)** (DOI: 10.1109/TENSYP46218.2019.8971130). IEEE, 2019).

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