

# Dr. Sumit Saha

**Designation** : Assistant Professor

**Department** : Mathematics

Assam University, Silchar

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**Research Interest:** Operations Research (Inventory)

## Work Experience:

| Organisation   | Designation         | Period |           |
|--|---------------------|--------|-----------|
|  |                     | From   | To        |
| Assaam University, Silchar   | Assistant Professor | 2009   | Till date |
| ICFAI University, Tripura<br>(Faculty of Science and Technology)       | Lecturer            | 2008   | 2009      |
| Ramanuj Gupta Junior College of<br>Science Arts and Commerce , Silchar | Lecturer            | 2002   | 2008      |

## List of Publications in Peer Reviewed Journal :

1. T.Som, **Sumit Saha**, Noise Erosion and Segmentation of Lines from handwritten document, Assam University journals of Science and Technology, Vol-3(1), 2008, pp-15 -17
2. T.Som, **Sumit Saha**, Handwritten Character Recognition by using Neural network and Euclidean distance metric, International Journal of Computer Science and Intelligent Computing, Vol 2, No. 1, November 2010, pp 1-5, ISSN: 0976 – 9250
3. **Sumit Saha**, A Modified Method for solving Nonlinear Equations, International Journal of Computer Science and Intelligent Computing, Vol 2, No. 1, November 2010, pp 6-11, ISSN: 0976 – 9250

4. Karabi Dutta Choudhury, **Sumit Saha** and Mantu Das, An Inventory Model With Lot Size Dependent Carrying / Holding cost, Assam University journal of Science & Technology, Vol. 7, Number II(2011), pp133-136, ISSN 0975-2773
5. T. Som, **Sumit Saha** Handwritten Character Recognition Using Fuzzy Membership Function, International Journal of Emerging Technologies in Sciences and Engineering Vol 5, No. 2, December, 2011, pp 11-15, ISSN 1923-9181
6. **Sumit Saha**, Karabi Dutta Choudhury, Mantu Das, An EOQ Model For Two Warehouse With Deteriorating Items, Periodic Time Dependent Demand And Shortages International Journal of Mathematical Sciences Volume 11 Number (3-4)(2012) 379- 392 ISSN 0972 – 754X
7. **Sumit Saha**, Tanmoy Som Recognition of Handwritten Characters Using Cosine Measure Advances in Computational Sciences and Technology Volume 6, Number 2 (2013) pp. 111-119 ISSN 0973-6107
8. **Sumit Saha**, Biprajit Nath A new initial search direction for nonlinear conjugate gradient method International Journal of Mathematics Research Volume 6, Number 2 (2014), pp. 183–190 ISSN 0976-5840
9. **Sumit Saha**, A Modified initial search direction for unconstrained nonlinear conjugate gradient method International Journal of Computational and Applied Mathematics Volume 10, Number 1 (2015), pp.77- 83 ISSN 0973-1768
10. **Sumit Saha**, Biprajit Nath, A modified form of conjugate direction for general nonlinear function and its convergence, International Journal of Computational Science and Mathematics (IJCSM) Volume 7, Number 1 (2015), pp. 25- 31 ISSN 0974-3189
11. Nabendu Sen ,Biman Kanti Nath and **Sumit Saha**, A Fuzzy Inventory Model for Deteriorating Items Based on Different Defuzzification Techniques, American Journal of Mathematics and Statistics, Vol-6(3),128-137,2016, DOI: 10.5923/j.ajms.20160603.07
12. **Sumit Saha** and Nabendu Sen, A Study on Inventory Model with Negative Exponential Demand and Probabilistic Deterioration, Uncertain Supply Chain Management ,Vol-5(),77-88,2017.
13. Nabendu Sen, **Sumit Saha** and Biman Kanti Nath, Inventory Model with Price Dependent Demand Under Permissible Delay in Payment, Asian Journal of Mathematics and Computer Research, Vol-20(1),1-12,2017.
14. Nabendu Sen and **Sumit Saha**, An inventory model for deteriorating items with time dependent holding cost and shortages under permissible delay in payment, Int. J. Procurement Management, Vol-11(4),518-531,2018

15. **Sumit Saha**, Nabendu Sen and Biman Kanti Nath, Inventory Model with Ramp-type Demand and Price Discount on Back Order for Deteriorating Items under Partial Backlogging, Applications and Applied Mathematics, Vol-13(1),472-483,2018.
16. **Sumit Saha** and Nabendu Sen, An inventory model for deteriorating items with time and price dependent demand and shortages under the effect of inflation, Int. J Mathematics in Operations Research, Vol-14(3),377-388,2019.
17. Nabendu Sen and **Sumit Saha**, Inventory Model for Deteriorating Items with Negative Exponential Demand, Probabilistic Deterioration and Fuzzy Lead Time under Partial Back Logging ,Operations Research and Decisions, Vol.30(3),97-112,2020
18. Hatibaruah, A. and **Saha, S.** (2021) ‘An inventory model for ameliorating and deteriorating items with stock and price dependent demand and time dependent holding cost with preservation technology investment’, International Journal of Mathematics in Operational Research, DOI: 10.1504/IJMOR.2020.10033524 ( **In press**)
19. Hatibaruah, A. and **Saha, S.** (2021) ‘ An Inventory System Using Preservation Technology Investment for Ameliorating and Deteriorating Items with Ramp-Type Demand Dependent on Price and Time and Partial Backlogging’, International Journal of Operational Research. (**Accepted**).

***Peer Reviewed Publications in Proceedings of National/International Conference :***

1. Karabi Dutta Choudhury, **Sumit Saha**, Mantu Das, “A Note on Inventory Model”, Proceedings of “Mathematical Sciences and their Applications: Recent Advances”, 2013, Pg- 104-111, Recent Advances in Mathematical Sciences and their Applications (RAMSA-10), Publisher: Narosa Publishing House, Year: 2013, ISBN: 987-81-8487-191-3
2. **Sumit Saha**, Karabi Dutta Choudhury, Mantu Das, “An Inventory Model for Non-deteriorating Items with Non-linear Time Dependent Demand Rate”, Proceedings of “Mathematical Sciences and their Applications: Recent Advances”, 2013, Pg- 112-120, Recent Advances in Mathematical Sciences and their Applications (RAMSA-10), Publisher: Narosa Publishing House, Year: 2013, ISBN: 987-81-8487-191-3

**Book Authored /Edited**

| <b>Type</b>                       | <b>Title of the book</b>   | <b>Publisher</b>                                    | <b>ISBN</b>       | <b>Authored/Edited</b> |
|-----------------------------------|--|---|-------------------|------------------------|
| Conference Proceedings (RAMSA-10) | Proceedings of “Mathematical Sciences and their Applications: Recent Advances” | Narosa Publishing House, Year:2013                  | 987-81-8487-191-3 | One of the Editor      |
| Conference Proceedings (TMSR)     | Trends in Mathematical Science Research  | Department of Mathematics, Assam University Silchar | 987-81-920948-4-8 | One of the Editor      |

**Number of PhD Supervised** : 01(awarded)

01(on going)