

# CURRICULUM VITAE

## Ali Akbar Shaikh

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- **Name** : Dr. Ali Akbar Shaikh
- **Designation:** Assistant Professor, Department of Mathematics  
The University of Burdwan
- **Permanent address:** Ali Akbar Shaikh, S/O: Azahar Ali  
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- **Academic qualifications:** M.Sc. in Applied Mathematics, M.Phil. in Applied Mathematics, Ph. D.
- **Fellowship received:** Postdoctoral Fellowship from Tecnologico de Monterrey, Campus Monterrey, Mexico (2015).
- **Award received:** Research Scientist (SNI) of level 1 (out of 0-3) awarded from government of Mexico in 2017.
- **Publications** (Details are given in *Annexure-I*)
- **Field of Specialisation:** Optimization & Operations Research
- **Topic of Doctoral Dissertation:** Inventory Control
- **Field of Research interest:** Computational Optimization, Inventory control, Particle Swarm Optimization, Interval ranking & their applications in Operations Research
- **Research Experiences: 4 years** (Since 2015)
- **Reviewing of research paper:**  
  
Reviewed a large number of research papers of different journals including
  - (i) European Journal of Operations Research
  - (ii) Computers & Operations Research

- (iii) Applied Mathematical Modelling
- (iv) International Journal of Logistic and System Management
- (v) International Journal of Mathematics and Operations Research
- (vi) Annals of Operations Research
- (vii) Computers & Industrial Engineering
- (viii) International Journal of Production Economics
- (ix) Applied Soft Computing
- (x) International Journal of Production Research
- (xi) European Journal of Industrial Engineering

• **Teaching Experience:**

<b>Institution/Organisation</b>	<b>Designation</b>	<b>Duration</b>
Tecnologico de Monterrey	Postdoctoral Researcher	March 28, 2016 to March 5, 2017
Sripat Singh College	Assistant Professor	March 09, 2017 to February 12, 2018
The University of Burdwan	Assistant Professor	February 13, 2018 to Till date.

**Co-researchers:**

**International:**

- (i) Prof. Leopoldo Eduardo Cárdenas-Barrón, School of Engineering and Sciences, Tecnológico de Monterrey, E. Garza Sada 2501 Sur, C.P. 64849, Monterrey, Nuevo León, México
- (ii) Dr. Ioannis Konstantaras, Department of Business Administration, School of Business Administration, University of Macedonia, 156 Egnatia Str., Thessaloniki 54636, Greece.
- (iii) Dr. Ata Allah Taleizadeh, Department of Industrial Engineering, University of Tehran, Iran.
- (iv) Prof. Mark Goh, Department of Decision Science, National University of Singapore. Singapore.
- (v) Dr. Sunil Tiwari, The Logistics Institute - Asia Pacific, National University of Singapore. Singapore.
- (vi) Prof. Md. Sharif Uddin, Department of Mathematics, Jahangirnagar University, Bangladesh.
- (vii) Md. Al-Amin Khan, Department of Mathematics, Jahangirnagar University, Bangladesh.
- (viii) Abu Hashan Md. Masud, Department of Mathematics, Hajee Mohammad Danesh Science and Technology University, Bangladesh.

**National :**

- (i) Prof. Asoke Kumar Bhunia, The University of Burdwan, Burdwan
- (ii) Prof. Sarala Pareek, Banasthali University, Rajasthan

- (iii) Prof. C. K. Jaggi, University of Delhi, Delhi
- (iv) Prof. SR Singh, CCS UNIVERSITY, Meerut, UP
- (v) Dr. Vinti Dhaka, Banasthali University, Rajasthan
- (vi) Dr. Garima Sharma, Banasthali University, Rajasthan
- (vii) Dr. Gobinda Chandra Panda, Mahavir Institute of Tecnology, BBSR, Odisha
- (viii) Dr. Umakanta Mishra, ICFAI University, Tripura

### **Declaration**

*I hereby declare that the information given above is true to the best of my knowledge and belief.*

Date : July, 2019

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*Ali Akbar Shaikh*

(Ali Akbar Shaikh)

Signature

*Annexure – I*

### **• Publications**

#### **List of Research papers**

**2019**

**Ali Akbar Shaikh**, Khan, M. A. A., Panda, G. C., & Konstantaras, I. (2019). Price discount facility in an EOQ model for deteriorating items with stock-dependent demand and partial backlogging. *International Transactions in Operational Research*, 26(4), 1365-1395. **(Wiley). (With impact factor 2.4 (2017) in JCR (SCIE))**

Khan, M. A. A., **Ali Akbar Shaikh**, Panda, G. C., Konstantaras, I., & Taleizadeh, A. A. (2019). Inventory system with expiration date: Pricing and replenishment decisions. *Computers & Industrial Engineering*, 132, 232-247. **(Elsevier). (With impact factor 3.195 (2017) in JCR (SCI))**

Biswas, A., **Ali Akbar Shaikh.**, & Niaki, S. T. A. (2019). Multi-objective non-linear fixed charge transportation problem with multiple modes of transportation in crisp and interval environments. *Applied Soft Computing*. **(Accepted). (Elsevier). (With impact factor 3.907 (2017) in JCR (SCIE))**

**Ali Akbar Shaikh.**, Das, S. C., Bhunia, A. K., Panda, G. C., & Khan, M. A. A. A two-warehouse EOQ model with interval-valued inventory cost and advance payment for deteriorating item under particle swarm optimization. *Soft Computing*, 1-16. **(Accepted). (Springer). (With impact factor 2.367 (2017) in JCR (SCIE))**

**2018**

Cardenas Barron, L.E., **Ali Akbar Shaikh**, Tiwari, S. Treviño-Garza, G. An EOQ inventory model with nonlinear stock dependent holding cost, nonlinear stock dependent demand and trade credit, *Computers & Industrial Engineering*, 132, 232-247. (Elsevier). (With impact factor 3.195 (2017) in JCR (SCI))

Tiwari, S., Cardenas Barron, L.E., **Ali Akbar Shaikh**, Mark, G. Retailer's optimal ordering policy for deteriorating items under order-size dependent trade credit and complete backlogging, *Computers & Industrial Engineering*, 132, 232-247. (Elsevier). (With impact factor 3.195 (2017) in JCR (SCI))

Khan, M. A. A., **Ali Akbar Shaikh**, Pana, G. C. Konstantaras, I., Two-warehouse inventory model for deteriorating items with partial backlogging and advance payment scheme, *Rairo-Operations Research Journal* (Accepted). (With impact factor 0.4 (2014) in JCR (SCIE)), SNIP: 0.5, SJR: 0.32, ISSN: 0399-0559.)

**Ali Akbar Shaikh**, Leopoldo Eduardo Cardenas Barron, Asoke Kumar Bhunia, Laxminarayan Sahoo, Sunil Tiwari, A fuzzy inventory model for deteriorating item with variable demand, permissible delay in payments and partial backlogging with shortage follows inventory (SFI) policy, *International Journal of Fuzzy Systems*. (Springer) (Accepted). (With impact factor 2.198 (2016) in JCR (SCIE), SNIP: 1.195, SJR: 0.727, ISSN: 1562-2479)

Sunil Tiwari, Leopoldo Eduardo Cardenas Barron, Mark Goh, **Ali Akbar Shaikh**, Inventory model for deteriorating items with expiration dates under two-level partial trade credits and allowable shortages in the supply chain, *International Journal of Production Economics* (Accepted). (Elsevier), (With impact factor 3.493 (2016) in JCR(SCIE)), SNIP: 2.109, SJR:2.749. ISSN: 0925-5273

**Ali Akbar Shaikh**, Leopoldo Eduardo Cardenas Barron, Sunil Tiwari, Closed-form solutions for the EPQ-based inventory model for exponentially deteriorating items under retailer partial trade credit policy in supply chain, *International Journal of Applied and Computational Mathematics* (Springer) (Accepted).

2017

**Ali Akbar Shaikh**, Leopoldo Eduardo Cardenas-Barron, Sunil Tiwari, A two-warehouse inventory model for non-instantaneous deteriorating items with interval valued inventory costs and stock dependent demand under inflationary conditions, *Neural Computing and Applications*. (Springer) (Accepted). (With impact factor 2.505 (2016) in JCR (SCIE)), SNIP: 0.992, SJR: 0.736, ISSN: 0941-0643.)

Bhunia, A.K., **Ali Akbar Shaikh**, Cardenas-Barron, L.E., A partially integrated production inventory model with interval valued inventory cost, variable demand and flexible reliability, *Applied Soft Computing*, 55, 491-502. (Elsevier) (With impact factor 3.541 (2016) in JCR(SCIE), SNIP:2.143, SJR: 1.763, ISSN 1568-4946)

**Ali Akbar Shaikh**, Leopoldo Eduardo Cardenas-Barron, Asoke Kumar Bhunia, Sunil Tiwari, An inventory model of a three parameter Weibull distributed deteriorating item with variable demand dependent on price and frequency of advertisement under trade credit, *Rairo-Operations research Journal*. **(Accepted)**. **(With impact factor 0.4 (2014) in JCR (SCIE)), SNIP: 0.5, SJR: 0.32, ISSN: 0399-0559.)**

Tiwari, S., Jaggi, C.K., Bhunia, A.K., **Shaikh, A.A.**, Mark Goh, A two warehouse inventory model for Non-instantaneous Deteriorating Items with stock dependent demand under Inflationary Conditions using particle swarm optimization, *Annals of Operational Research*, **(With impact factor 1.709 (2016) in JCR (SCI)), SNIP: 1.33, SJR: 1.19. ISSN: 0254-5330 (print version)**. **(Accepted)**.

Tiwari, S., Jain, S., Cardenas-Barron, L.E., **Shaikh, A. A.**, Singh, S. R., A fuzzy imperfect production and repair inventory model with time dependent demand, production and repair rates under inflationary condition. *Rairo-Operations Research Journal* **(Accepted)**. **(With impact factor 0.4 (2014) in JCR (SCIE)), SNIP: 0.5, SJR: 0.32, ISSN: 0399-0559.)**

**Shaikh, A.A.**, Cardenas-Barron, L.E., Tivari, S., Some observations on: Improving production policy for a deteriorating item under permissible delay in payments with stock-dependent demand rate, *International Journal of Applied and Computational Mathematics*. **(Springer)**

Mishra, U. Cardenas-Barron, L.E., Tivari, S., **Shaikh, A.A.**, Gerardo, T.G., An inventory model under price and stock dependent demand for controllable deterioration rate with shortages and preservation technology investment, *Annals of Operational Research*, **(Springer)**, **(With impact factor 1.709 (2016) in JCR (SCI)), SNIP: 1.33, SJR: 1.19. ISSN: 0254-5330**. **(Accepted)**

Bhunia, A.K., **Shaikh, A.A.**, Dhaka, V., Pareek, S. An application of Genetic Algorithm and PSO in an inventory model for single deteriorating item with variable demand dependent on marketing strategy and displayed stock level, *Scientica Iranica*. **(With impact factor 1.025 (2015) in JCR(SCIE)), SNIP: 0.67, SJR: 0.49, ISSN: 1026-3098**. **(Accepted)**

Taleizadeh, A. A., Hadadpour, S., Cardenas-Barron, L.E., **Shaikh, A.A.** Warranty and price optimization in a competitive duopoly supply chain with parallel importation, *International Journal of Production Economics*, 185, 76-88. **(Elsevier)**, **(With impact factor 3.493 (2016) in JCR(SCIE)), SNIP: 2.109, SJR:2.749. ISSN: 0925-5273**

Biswas, A., Bhunia, A.K., **Shaikh, A.A.**, Multi-objective unbalanced assignment problem with restriction of jobs to agents via NSGA-II, *International Journal of Mathematics in Operational Research* **(Inderscience)**, **(Scopus)**, **SNIP: 0.67, SJR: 0.41 ISSN: 1757-5850 (Print)**. **(Accepted)**

**Shaikh, A.A.**, Masud, Md. A, Uddin, Md, S., Khan, A. A., Non instantaneous deterioration inventory model with price and stock dependent demand for fully backlogged shortages under inflation, *International Journal of Business Forecasting and Marketing Intelligence*, (**Inderscience**) ISSN:1744-6635. (Accepted)

**Ali Akbar Shaikh**, Gobinda Chandra Panda, Satyajit Sahu, Ajit Kumar Das, Economic order quantity model for deteriorating item with preservation technology in time dependent demand with partial backlogging and trade credit, *International Journal of Logistics and Systems Management*, (**Inderscience**). (Scopus), SNIP:0.711, SJR: 0.451, ISSN: 1742-7975 (Print).

## 2016

Bhunia, A.K., **Shaikh, A.A.**, Investigation of two-warehouse inventory problems in interval environment under inflation via particle swarm Optimization, *Mathematical and Computer Modelling of Dynamical Systems*, 22 (2), (2016), 160-179. (**Taylor and Francis**), (with impact factor 0.625 (2016) in JCR(SCIE)), SNIP:0.77, SJR: 0.55, ISSN: 1387-3954.

**Shaikh, A.A.**, A two warehouse inventory model for deteriorating items with variable demand under alternative trade credit policy, *International Journal of Logistics and Systems Management*, (**Inderscience**). (Scopus), SNIP:0.711, SJR: 0.451, ISSN: 1742-7975 (Print).

**Shaikh, A.A.**, An inventory model for deteriorating item with frequency of advertisement and selling price dependent demand under mixed type trade credit policy, *International Journal of Logistics and Systems Management*, (**Inderscience**). (Scopus), SNIP:0.711, SJR: 0.451, ISSN: 1742-7975(Print).

## 2015

Bhunia, A.K. , **Shaikh, A.A.**, Sharma, G, Pareek, S. A two storage inventory model for deteriorating items with variable demand and partial backlogging, *Journal of Industrial and Production Engineering* (**Taylor and Francis** (ESCI)). (Scopus), 32(4), 263-272. SNIP: 0.418, SJR: 0.312, ISSN: 2168-1015 (Print).

Bhunia, A.K. , **Shaikh, A.A.**, Sahoo, L. A two-warehouse inventory model for deteriorating items under permissible delay in payment via particle swarm optimization, *International Journal of Logistics and Systems Management* (**Inderscience**). (Scopus), 24(1), 45-68. SNIP:0.711, SJR: 0.451, ISSN: 1742-7975(Print).

Bhunia, A.K., **Shaikh, A.A.** (2015). An application of PSO in a two-warehouse inventory model for deteriorating items under permissible delay in payment with different shortage policies, *Applied Mathematics and Computation* (**Elsevier**), 256, 831-850. (with impact factor 1.738 (2016) in JCR(SCIE)), SNIP:1.203, SJR:1.008, ISSN: 0096-3003.

Bhunia, A.K. , **Shaikh, A.A.**, Gupta, R.K. (2015). A study on two warehouse partially backlogged deteriorating inventory models under inflation via particle swarm optimization, *International Journal of System Science* (**Taylor and Francis**), 46(6), 1036–1050. (with impact factor 1.947 (2016) in JCR (SCIE)), SNIP: 1.281, SJR: 1.059, ISSN: 0020-7721.

Bhunia, A.K. , **Shaikh, A.A.**, Pareek, S., Dhaka, V. (2015). A memo on stock model with partial backlogging under delay in payments, *Uncertain Supply Chain Management (Growing Science)*,3(1), 11-20 (Scopus). ISSN 2291-6822 (print).

## 2014

Bhunia, A.K. , **Shaikh, A.A.**, (2014). A deterministic inventory model for deteriorating items with selling price dependent demand and three-parameter Weibull distributed deterioration, *International Journal of Industrial Engineering Computations (Growing Science)*, 5(3), 497–510. (Scopus), SNIP: 0.953, SJR: 0.568, ISSN 1923-2926 (Print).

Bhunia, A.K. , **Shaikh, A.A.**, Mahato, S.K., Jaggi, C.K. (2014). A deteriorating inventory model with displayed stock-level dependent demand and partially backlogged shortages with all unit discount facilities via Particle Swarm Optimization, *International Journal of System Science: Operations and Logistics (Taylor and Francis)*, 1(3), 164-180, ISSN: 2330-2674(Print).

## 2013

Bhunia, A.K. , **Shaikh, A.A.**, Maiti, A.K., Maiti, M. (2013). A two warehouse deterministic inventory model for deteriorating items with linear trend in time dependent demand over finite horizon by Elitist Real-Coded Genetic Algorithm, *International Journal of Industrial Engineering Computations (Growing Science)*, 4(2), 241-258. (Scopus), SNIP: 1.027, SJR: 0.817, ISSN 1923-2926 (Print).

## 2011

Bhunia, A.K., **Shaikh, A.A.**, (2011). A deterministic model for deteriorating items with displayed inventory level dependent demand rate incorporating marketing decision with transportation cost , *International Journal of Industrial Engineering Computations (Growing Science)*, 2(3),547-562. (Scopus), SNIP: 0.903, SJR: 0.17, ISSN 1923-2926 (Print).

Bhunia, A.K., **Shaikh, A.A.**, (2011). A two warehouse inventory model for deteriorating items with time dependent partial backlogging and variable demand dependent on marketing strategy and time, *International Journal of Inventory Control and Management (AACCS)*, 1(2), 95-110, ISSN: 0975-3729 (Print)