

**Name** : SOMA ROYCHOWDHURY

**Educational Qualification** : Ph.D. in Statistics from the University of Calcutta

**Present Position** : Professor, Indian Institute of Social Welfare and Business Management, Kolkata

**Visiting Positions** : Visiting Professor, Department of Statistics, University of California, Davis, USA (1998-2012)

Visiting Fellow (under UGC-SAP-DSA-III), Department of Statistics, Panjab University, Chandigarh (2019, 2014)

Visiting Fellow (under UGC-SAP-DRS(II)), Department of Statistics, Sardar Patel University, Vallabh Vidyanagar, Gujarat (2019)

Guest Professor, Institute of Agricultural Science, University of Calcutta (2017-2019)

### **Recent Publications:**

#### **International journals**

1. Enhancing sustainability and performance of supply chain organizations through rationality-riskiness analysis (2023), *World Review of Entrepreneurship, Management and Sustainable Development* (Inderscience Publishers), to appear in 20(4) (jointly with Roy, R.)
2. Path analytic approach towards demystifying the key triggers behind liking different cricket Formats- A Kolkata based study (2022), *Malaysian Journal of Sports Science and Recreation*, 18(1), 110-129 (jointly with Ray, S.)
3. A detailed perspective of marine emissions and their environmental impact in a representative Indian port (2021), *Atmospheric Pollution Research* (Elsevier), 12(1):101194 (jointly with Mandal, A., Biswas, J., Farooqui, Z.)
4. Cricket mix optimization using heuristic framework after ensuring Markovian equilibrium (2021), *Journal of Sports Analytics* (IOS Press), 7(3), 155-168 (jointly with Ray, S.)
5. A representative study evaluation of a major port in India. Environmental Impacts of Marine Emissions and Impending Policy Formulation in a Major Indian Port (2021), *EM: Air and Waste Management for Environmental Managers*, February, 2021 (jointly with Biswas, J., Mandal, A., Farooqui, Z.)
6. Performance Improvement of a Multi-State Coherent System using Component Importance Measure (2019), *American Journal of Mathematical and Management Sciences* (Taylor & Francis), 38(3), 312-324 (jointly with Bhattacharya, D.)

7. Optimal redundancy allocation in homogeneous multi-state coherent systems (2018), *American Journal of Mathematical and Management Sciences* (Taylor & Francis), 37(4), 358-369 (jointly with Bhattacharya, D.)
8. Appraisal of emissions from ocean-going vessels coming to Kolkata port, India (2017), *Journal of The Institution of Engineers: Series A* (Springer), 98 (4), 387-395 (jointly with Mandal, A., Biswas, J., Farooqui, Z.)
9. Bayesian importance measure based approach for optimal redundancy assignment (2016), *American Journal of Mathematical and Management Sciences* (Taylor & Francis), 35(4), 335-344 (jointly with Bhattacharya, D.)
10. A redundancy strategy for minimizing cost in systems with non-disjoint subsystems under reliability constraint (2016), *International Journal of Systems Assurance Engineering and Management* (Springer) (jointly with Bhattacharya, D.)
11. Performance Analysis of Major Ports in India: A Quantitative Approach (2016), *International Journal of Business Performance Management* (Inderscience Publishers), 17(3), 345-364 (jointly with Mandal, A., Biswas, J.)
12. Optimum tilt angles for manual tracking of photovoltaic modules (2016), *Distributed Generation and Alternate Energy Journal* (Taylor & Francis), 31(2), 7-35 (jointly with Dutta, A., Biswas, J., Neogi, S.)
13. On performance of competing estimators under Bayes, frequentist and combined frameworks (2015), *American Journal of Mathematical and Management Sciences* (Taylor & Francis), 34(3), 265-288 (jointly with Bhattacharya, D.)
14. Stochastic optimization of system performance using cold-standby redundancy (2015), *American Journal of Mathematical and Management Sciences* (Taylor & Francis), 34(1), 1-13 (jointly with Bhattacharya, D.)
15. An investigation of potential regional and local source regions affecting fine particulate matter concentrations in Delhi, India (2015), *Journal of Air and Waste Management Association* (Taylor & Francis), 65(2), 218-231 (jointly with Ghosh, S., Biswas, J., Guttikunda, S., Nayak, M.)
16. On constrained reliability maximization using active redundancy in coherent systems with non-overlapping subsystems (2015), *International Journal of Optimization and Control: Theories and Applications*, 5(1), 33-39 (jointly with Bhattacharya, D.)
17. Performance-based ranking and selection of complex coherent systems (2015), *International Journal of Systems Assurance Engineering and Management* (Springer) (jointly with Bhattacharya, D.)

18. Redundancy allocation using component-importance measures for maximizing system reliability (2014), *American Journal of Mathematical and Management Sciences* (Taylor & Francis), 33(1), 36-54 (jointly with Bhattacharya, D.)
19. A study on estimation of reliability of a coherent system under field condition (2014), *Model Assisted Statistics and Applications* (IOS Press), 9(2), 181-189 (jointly with Bhattacharya, D.)
20. Optimal redundancy allocation rule for improving system life (2013), *Journal of Uncertainty Analysis and Applications* (Springer), 1:14, 1-9 (jointly with Bhattacharya, D.)
21. Improving system reliability using conditional reliability importance (2011), *Journal of Risk and Reliability* (Sage), 225, 91-99 (jointly with Bhattacharya, D.)
22. An optimal policy for solving a generalized problem of constrained redundancy allocation in coherent systems (2013), *American Journal of Mathematical and Management Sciences* (Taylor & Francis), 32(4), 210-227 (jointly with Bhattacharya, D.)
23. Reliability of a coherent system in a multi-component stress-strength model (2013), *American Journal of Mathematical and Management Sciences* (Taylor & Francis), 32(1), 40-52 (jointly with Bhattacharya, D.)
24. A general rule for optimally allocating redundant components in a coherent system (2013), *American Journal of Mathematical and Management Sciences* (Taylor & Francis), 32(2), 101-117 (jointly with Bhattacharya, D.)
25. Reliability comparison of systems of different orders using pseudo-signatures (2012), *Electronic Journal of Applied Statistical Analysis*, 5(2), 199-212
26. Improving system reliability using conditional reliability importance (2011), *Journal of Risk and Reliability* (Sage), 225, 91-99 (jointly with Bhattacharya, D.)
27. A warehouse selection problem based on random delivery times (2011), *Model Assisted Statistics and Applications* (IOS Press), 6(2), 89-98
28. Comparison of lifetimes of coherent systems using a stochastic ordering criterion (2011), *Model Assisted Statistics and Applications* (IOS Press), 6(4), 287-305
29. On the selection of a best system from a group of systems with mutually dependent component lives (2011), *Statistical Methods in Optimization and Operations Research, Model Assisted Statistics and Applications* (IOS Press), 6(3), 239-247
30. On estimation of regression parameter under asymmetric loss, *Journal of Applied Probability and Statistics* (2011), 5(2), 161-168 (jointly with Bhattacharya, D.)
31. Effect of dependence of components on the system performance (2011), *International Journal of Pure and Applied Mathematics*, 66(1), 91-112 (jointly with Bhattacharya, D.)
32. A generalized approach to comparing the systems of different order (2010), *Advanced Modeling and Optimization*, 12(1), 57-69

33. Rearrangement of components in a system using component importance measures (2009), *Journal of Statistical Theory and Practice* (Taylor & Francis), 3(4), 841-854 (jointly with Bhattacharya, D.)
34. A note on comparison of performances of systems of different order (2009), *Journal of Applied Statistical Science*, 16(3), 293-301 (jointly with Bhattacharya, D.)
35. An optimal ordering policy for a stochastic inventory model for deteriorating items with time-dependent selling prices (2009), *Advanced Modeling and Optimization*, 11(3), 289-304
36. A random demand random lead time stochastic inventory system with time-dependent prices (2009), *Journal of Statistical Theory and Applications*, 8(4), 506-516
37. A multi-period profit maximization policy for stochastic demand inventory system with upward substitution (2009), *International Journal of Applied Mathematics and Computer Sciences*, 5(4), 239-247
38. On performance of estimators of parameter in autoregressive model of order one and optimal prediction under asymmetric loss (2008): *Model Assisted Statistics and Applications* (IOC Press), 3(3), 225-232 (jointly with Bhattacharya, D.).

#### **National journals**

39. Impact of behavioural competencies of healthcare personnel on patient satisfaction and its estimation (2023), *Journal of Emerging Technologies and Business Management*, 10(2), 1-41 (jointly with Chanda, P.)
40. An empirical study to measure effectiveness of training program between existing and potential women entrepreneurs (2022), *Journal of Socioeconomic and Contemporary Review*, 2(1), 78-83 (jointly with Sami, S.)
41. Consumer awareness and inclination towards eco-friendly cars with reference to sustainable development (2022), *Journal of Operations Management*, 21(2), 43-51 (jointly with Mitra, C.)
42. Dependency of stock price on market equilibrium (2022), *Capital Market and Financial Review*, 2(1), 55-67 (jointly with Ghosh, S.)
43. Identifying key issues and risks involved in new-normal situation for improving employee satisfaction in MSME (2021), *Journal of Emerging Technologies and Business Management*, 10(1), 78-96 (jointly with Roy, R.)
44. Assessing impact of Covid pandemic on role transition and effectiveness of remote working in the face of challenges in Human Resource Management (2021), *Journal of Emerging Technologies and Business Management*, 10(1), 56-76 (jointly with Sami, S.)

45. Comparison of performances of competing supply chain system designs (2013), *Unlock Management*, 4(1), 25-31 (ISSN: 0975-8038)

### **Book chapters /Proceedings**

46. An analytical study on the future prospects of electric vehicles in Indian market: Barriers and Challenges (2023), in *Management Practices for Business Resilience*, Ch.3, 30-39, Academic Publishing (jointly with Mitra, C.) ISBN: 978-620-5-63126-3
47. A systematic study on interoperability of eco-friendly cars by virtue of sustainable development in automobile industry (2023), in *Reinventing Management through Sustainability, Innovation and Analytics*, Ch.22, 301-309, Bloomsbury Publishing (jointly with Mitra, C.) ISBN: 978-93-56403-45-1
48. Sustainable entrepreneurship: A systematic review of literature on new trends and influencing factors across globe (2023), in *Resilient and Sustainable Business: An Indian Perspective*, Ch.4, 51-66, Academic Publishing (jointly with Sami, S.) ISBN: 978-620-5-63079-2
49. A study on gender equality and women empowerment: A new insight into sustainable development goals (2022), in *Empowering Women through Education*, Ch.28, 287-296 (jointly with Sami, S.) ISBN: 978-81-953829-6-5
50. Stock price forecasting considering the effect of exogenous variables (2022), in *Replenish, Restructure, Reinvent: Technology-Fueled Business Transformation for Sustainable Future*, Ch.2, 10-17 (jointly with Ghosh, S.) ISBN 978-81-947986-1-3
51. Identifying the factors influencing the purchase of eco-friendly cars in the mega city of Kolkata in the context of sustainable development (2022), in *Rethinking Business Agility During Uncertainty*, Ch.2, 12-22, Routledge (Taylor & Francis Group) (jointly with Mitra, C.) ISBN 9781032333823
52. Entrepreneurial innovativeness impact on business performance: An empirical study across West Bengal (2022), in *Replenish, Restructure, Reinvent Technology-Fueled Transformation for Sustainable Future*, Ch.5, 42-53 (jointly with Sami, S.) ISBN 978-81-947986-1-3
53. Investigating the influence of green personnel management strategies on employee motivation and sustainable development (2022), in *Replenish, Restructure, Reinvent: Technology-Fueled Transformation for Sustainable Future*, Ch.12, 163-174 (jointly with Mitra, C.) ISBN 978-81-947986-1-3.
54. An innovative approach to understanding strategic supply chain issues and risks through modified Johari supply chain window (2022), *Proceedings of the Global Conference on Innovations in Management and Business* (jointly with Roy, R.)

55. An analytical study on the utilization of eco-friendly cars in the perspective of sustainable development in automobile industries (2022), *Proceedings of the Global Conference on Innovations in Management and Business* (jointly with Mitra, C.)
56. Women in small entrepreneurial ventures in Kolkata: A study of motivational factors and Challenges (2022), *Proceedings of the Global Conference on Innovations in Management and Business* (jointly with Sami, S.)
57. A Study on impact of sustainable entrepreneurship on subjective success of ecopreneurs (2021), *Proceedings of 8<sup>th</sup> PAN IIM World Management Conference, IIM Kozhikode*, 499-506 (jointly with Sami, S.)
58. An innovative approach to understanding strategic supply chain issues and risks through modified Johari supply chain window (2022), *Proceedings of the Global Conference on Innovations in Management and Business* (jointly with Roy, R.)
59. A study of the relationship between behavioural competencies and patient satisfaction in the health care sector (2020), in *Innovative Business Practices in a vuca world* (jointly with Chanda, P.)
60. Uncovering data for decision making with critical statistical analysis (2018), in *Handbook of Research on Statistical Tools and Analysis in Human Resources Management*, Ch.3, 38-53, IGI Global, (jointly with Bhattacharya, D.) ISBN 9781522549482 (ebook) | ISBN 9781522549475 (hardcover)
61. Configurational significance of multi-state components in a multi-state parallel-series system (2018), in *Contemporary Corporate Strategies: Global Perspectives*, Ch.16, pp.129-136, Success Publications. ISBN 978-93-87665-56-9
62. System performance improvement through redundancy allocation for active and cold redundancy (2016), in *Innovation in Management and Technology*, Chapter 4, 33-40, Success Publications. ISBN- 978-93-5158-304-2
63. A Bayesian approach to improving system reliability using redundancy (2016), in *Recent Trends in Engineering and Management*, Chapter 17, 114-116, Success Publications (ISBN No. 978-93-5158-299-1)
64. Active redundancy allocation in multi-component coherent systems using Birnbaum structural importance measure (2015), in *Enhancing Employability through Skill Development Program*, Chapter 1, 155-161, Sharp Publication Pvt. Ltd. (ISBN: 978-93-5158-172-7)
65. Role of importance measures in redundancy allocation in coherent systems (2015), in *Innovative Quest in Management and Zest in Information Technology in Modern Era*, Chapter 34, 216-221, Success Publications (ISBN: 978-93-84916-66-4)
66. Redundancy allocation problem under dependence set up (2015), in *Art and Science of Management for the Current Decade*, 9-14 (ISBN 81-89244-63-9)

67. Managing system reliability through structural importance (2014), in *Achieving Sustainability and Growth in Challenging Time*, 89-96, Success Publications (ISBN 978-93-83993-09-3)
68. Reliability comparison of systems with associated component lives (2014), *Strategies, Challenges, Core Values and Emerging Trends in Management and IT Applications*, 1-6, Success Publications (ISBN: 978-93-83993-00-0)
69. A quantitative approach to assessing stress-strength stability (2013), *Economic Reforms: Problems and Prospects before Indian Industries*, 95-99, Himalaya Publishing House Pvt. Ltd. (ISBN: 978-93-5097-574-9)
70. On comparison of performances of competing supply chain system designs (2013), in *Blazing Trails with Strategic Management*, 242-248 (ISBN: 978-81-921232-1-9)
71. Managing risk of failure of a coherent system using component redundancy (2013), in *Challenges and Opportunities in Business Management and Information Technology*, 51-60 Himalaya Publishing House Pvt. Ltd. (ISBN: 978-93-5097-528-2)
72. On selection of the best system component in a profit maximizing redundancy allocation problem (2013), in *Management Systems*, 21-28, Wright Academic Series (ISBN: 978-3-8443-1537-84)
73. Exploratory data analysis in data mining (2012), in *Statistics in Social Science and Agricultural Research*, 52-72, Concept Publishing Company Pvt. Ltd. (ISBN-13: 978-81-8069-822-4)
74. Assessing risk of failure of a parallel series system under dependent set-up (2012), in *Innovation for Organizational Excellence*, 3-11 (ISBN: 978-93-5051-684-3)
75. Performance management of a coherent system under field conditions (2012), *Technology and Business Innovation*, 20-26, Wright Publication, Wright Academic Series (ISBN: 978-3-659-27554-8)
76. Risk of system failure under dependent set up (2011), in *A New Blue Print for Management in 21<sup>st</sup> Century*, 99-105, Himalaya Publishing House (ISBN: 978-93-5024-7693)
77. Estimating risk of failure of systems with positively dependent component failures (2011), in *Rousing Challenges of Management Systems and Practices*, 101-105, Himalaya Publishing House Pvt. Ltd. (ISBN: 978-93-5051-476-4)
78. Managing change in system reliability with the change in environmental variable (2011), in *Information Technology Management*, 87-92 (ISBN: 978-3-8454-4046-0)
79. An approach to improving system reliability of coherent systems by rearranging the components (2010), in *Operations and Management Sciences*, 453-458, Excel India Publishers (ISBN: 978-93-80043-79-1)
80. Risk management in system performance (2010), in *Project Risk Management: Identifying, Forecasting and Mitigating Project Risk*, 106-113, Wright Publication (ISBN: 979-90-87533-82-1)

81. Investigating the local and regional source regions of particulate pollution in New Delhi, India using trajectory clustering (2013), in the Proceedings of 16<sup>th</sup> International Union of Air Pollution Prevention Association World Clean Air Congress, Cape Town, South Africa (jointly with Guttikonda, S., Biswas, J., Ghosh, S.)
82. Meteorologically adjusted trend analysis of surface ozone concentrations in Delhi, India (2014), in the Proceedings of Air and Waste Management Association's 107<sup>th</sup> Annual Conference, Long Beach, California, USA (jointly with Guttikonda, S., Biswas, J., Ghosh, S.)
83. Evaluation of impact of local and regional source regions on pollution levels in Delhi, India, (2014), in the Proceedings of Air and Waste Management Association's 107<sup>th</sup> Annual Conference, Long Beach, California, USA (jointly with Guttikonda, S., Biswas, J., Ghosh, S.)
84. Assessment of impact of marine emissions of ocean-going vessels in a major Port in India (2016), in the Proceedings of Air and Waste Management Association's 109<sup>th</sup> Annual Conference, New Orleans, USA (jointly with Mandal, A., Biswas, J., Farooqui, Z.)

#### **Book edited**

85. *Statistics in Social Science and Agricultural Research* (2012), Concept Publishing Company Pvt. Ltd. (ISBN-13: 978-81-8069-822-4) (jointly with Bhattacharya, D.)

#### **Books authored**

86. *Statistics: Theory and Practice* (2023), 4<sup>th</sup> edition, U.N. Dhur & Sons Pvt. Ltd. (in press) (jointly with Bhattacharya, D.) ISBN 978-93-80673-92-9.
87. *Probability and Statistical Inference* (2017), 3<sup>rd</sup> edition, U.N. Dhur & Sons Pvt. Ltd. (jointly with Bhattacharya, D.) ISBN 978-93-80673-91-2
88. *Nonparametric Statistical Methods* (2017), MedTech-A Division of Scientific International (jointly with Bhattacharya, D.) ISBN 978-93-85998-68-3
89. *Exploring data* (2016), 5<sup>th</sup> edition, U.N. Dhur & Sons Pvt. Ltd. (jointly with Bhattacharya, D.) ISBN 978-93-80673-93-6
90. *Decision making with data* (2013), 3<sup>rd</sup> edition, U.N. Dhur & Sons Pvt. Ltd. (jointly with Bhattacharya, D.) ISBN 978-93-80673-81-3
91. *Practical Statistics* (2013), 3<sup>rd</sup> edition, U.N. Dhur & Sons Pvt. Ltd. (jointly with Bhattacharya, D.) ISBN 978-93-80673-86-8
92. *Inferential Statistics* (2012), U.N. Dhur & Sons Pvt. Ltd. (jointly with Bhattacharya, D.) ISBN 978-93-80673-60-8
93. *Managerial Statistics* (2011), U.N. Dhur & Sons Pvt. Ltd. (jointly with Bhattacharya, D.) ISBN 978-93-80673-45-5.

## **International and National Conferences and Invited Talks:**

- Invited Talk (Comparison of performances of competing coherent systems using system signatures), International Conference on Recent Advances in Statistics and Data Science for Sustainable Development, organized by Department of Statistics, Utkal University and Indian Society for Probability and Statistics, held at the Institute of Physics, Directorate of Atomic Energy, Bhubaneswar, Odisha, during December 21-23, 2019
- Invited Talk (Optimizing system reliability through structural importance), UGC-SAP Sponsored National Seminar on High Dimensional Data Analysis-Stochastic and Optimization Methods, organized by the Department of Statistics, Pondicherry University during December 9-10, 2019
- Invited Talk (On reliability enhancement of engineered systems considering cost-effectiveness in the model), WB-OHEPEE sponsored National Conference on Statistical methodology and data science, organized by the Department of Statistics, Utkal University, Bhubaneswar, Odisha, during March 15-16, 2019
- Invited Talk (Improving reliability of coherent systems using component importance measures), UGC-SAP sponsored National Conference on Recent Advances in Statistics and Statistical Practice, organized by the Department of Statistics, Sardar Patel University, Gujarat, during March 1-2, 2019
- Guest of Honour, International Conference on Next Generation Management-Issues & Challenges, organized by Regional College of Management, Bhubaneswar, Odisha, March 15-16, 2019
- Invited Talk, a Special Indian Council of Agricultural Research (ICAR) Lecture at North Bengal Agricultural University, Coochbehar, West Bengal on March 15, 2020
- Invited Speaker in the Department of Statistics, North Bengal Agricultural University, Coochbehar, West Bengal, on the occasion of celebration of 125<sup>th</sup> Birth Anniversary of P.C.Mahalanobis on June 29, 2018
- Invited Talk, National Workshop on Recent Advances in Data Mining and its Applications , Department of Statistics, Andhra University, Visakhapatnam, March 11-14, 2011
- International Conference on New Trends in Life Testing, Bayesian Inference, Sampling Theory, Bio-statistics, Bio-informatics and Computer Applications, Banaras Hindu University, Varanasi, January 5-January 8, 2011
- Invited Talk (On Selection of Best System from a Group of Systems of Different Order using a Stochastic Ordering Criterion), International Conference on Optimization and its Applications, Banaras Hindu University, Varanasi, February 16-18, 2010
- Invited Talk, International Workshop on Data Mining and Stochastic Modeling, Andhra University, Visakhapatnam, January 29-February 1, 2008
- International Conference on Multiple Decision Theory, Statistical Inference and Applications, at Graduate Institute of Applied Statistics, Fu Jen Catholic University, Taipei, Taiwan, December 28-30, 2007

- A systematic study on interoperability of eco-friendly cars by virtue of sustainable development in automobile industry (co-researcher Mitra, C.), 3<sup>rd</sup> International Conference on Changing Business Paradigm, organized by Management Development Institute, Murshidabad, January 5-7, 2023
- Impact of Sustainable Practices on the Performance of Manufacturing Small and Medium Enterprises in India (co-researcher Sania, S.), International Conference on Sustainable Development - A Value Chain Perspective, organized by MDI, Murshidabad, February 3-4, 2023
- Entrepreneurial Innovativeness Impact on Business Performance: An Empirical Study across West Bengal (co-researcher Sami, S.), 8<sup>th</sup> International Conference on Replenish, Restructure and Reinvent for Sustainable Future, organized by University of Nebraska, USA and Vivekananda School of Business Studies and College of Information Science and Technology, January 21-22, 2022
- Identifying the factors influencing the purchase of eco-friendly cars in mega city of Kolkata in the perspective of sustainable development (co-researcher Mitra, C.), 2<sup>nd</sup> International Conference on Changing Business Paradigm, organized by Management Development Institute, Murshidabad, January 21-23, 2022
- Prediction Accuracy Analysis in Stock Price Estimation (co-researcher Ghosh, S.), 9<sup>th</sup> International Conference on Envisioning India's Future Growth, Innovation, Sustainability, organized by Jaipuria Institute of Management, Jaipur, February 17-19, 2022
- An Analytical Study on the Future Prospects of Electric Vehicles in Indian Market – Barriers and Challenges (co-researcher Mitra, C.), International Conference on Developing Resilient & Sustainable Businesses, organized by Shri Chimanbhai Patel Institute of Management & Research, August 10, 2022
- An Empirical Study to Measure Effectiveness of Training Program Between Existing and Potential Women Entrepreneurs (co-researcher Sami, S.), International Conference on Changes State, Economy, Public Health and Society, organized by Center for Academic & Professional Career Development and Research, Bangladesh, January 16-17, 2022
- Analyzing the impact of green human resource management practices on employee motivation and sustainable performance management (co-researcher Mitra, C.), 8<sup>th</sup> International Conference on Replenish, Restructure and Reinvent for Sustainable Future, organized by University of Nebraska at Omaha, USA and Vivekananda Institute of Professional Studies & College of Information Science and Technology, January 21-22, 2022
- Dependency of Stock Price on Market Equilibrium (co-researcher Ghosh, S.), International Conference on Changes State, Economy, Public Health and Society, organized by Center for Academic & Professional Career Development and Research, January 16-17, 2022

- Impact of green HR practices on employee motivation and sustainable performance management (co-researcher Mitra, C.), 8<sup>th</sup> International Conference on Replenish, Restructure & Reinvent for Sustainable Future, organized by College of Information Science & Technology, University Of Nebraska, USA, and Vivekananda Institute of Professional Studies, New Delhi, January 21-22, 2022
- Statistical framework To Measure Sustainable Entrepreneurship And Entrepreneurial Success (co-researcher Sami, S.), National Seminar on Statistics and Its Application, Bhiwani, Haryana, organized by the Department of Mathematics & Department of ICT, Chaudhary Bansi Lal University, June 29, 2022
- An analytical study on the impact of overpopulation in the context of Sustainable Development and Public Health (co-researcher Mitra, C.), International Conference on Changes State, Economy, Public Health and Society, organized by Centre for Academic & Professional Career Development and Research, Bangladesh, January 16-17, 2022
- Sustainable Entrepreneurship: A Systematic Review of Literature on New Trends and Influencing Factors across Globe (co-researcher Sami, S.), Conference on Changing Paradigms in Management, Gandhinagar, Gujarat, organized by Shri Chimanbhai Patel Institute Of Management & Research, October 9, 2022
- Stock price forecasting considering the effect of exogenous variables (co-researcher Ghosh, S.), 8<sup>th</sup> International Conference on Replenish, Restructure and Reinvent for Sustainable Future, organized by University of Nebraska at Omaha, USA and Vivekananda Institute of Professional Studies & College of Information Science and Technology, January 21-22, 2022
- Identifying the factors influencing the purchase of eco-friendly cars in mega city of Kolkata in the perspective of sustainable development (co-researcher Mitra, C.), 2<sup>nd</sup> International Conference on Changing Business Paradigm, organized by MDI, Murshidabad, January 21-23, 2022
- A Study on Gender Equality and Women Empowerment: A New Insight into Sustainable Development Goals (co-researcher Sami, S.), Conference on Empowering Women through Education, Nadia, West Bengal, December 1, 2022
- Green human resource management practices on sustainable performance management (co-researcher Mitra, C.), organized by Institute of Engineering and Management, Kolkata, December 9-11, 2022
- Development of a continual improvement structure for mitigating the issues and risks based on ISO 9004:2018 framework (co-researcher Roy, R.), 7<sup>th</sup> International Conference on Sustainability and Management Strategy, organized by California State University, San Bernardino, USA, CSIR-NEERI, Institute of Management Technology, Nagpur, September 30-October 1, 2021
- A Study on Impact of Sustainable Entrepreneurship on Subjective Success of Ecopreneurs (co-researcher Sami, S.), 8<sup>th</sup> PAN IIM World Management Conference on Responsible Business for Sustainable Development, organized by Indian Institute of Management, Kozhikode, December 15-16, 2021

- Random Walk Tests for Assessing Sustainability in Indian Stock Market (co-researcher Ghosh, S.), 7<sup>th</sup> International Conference on Sustainability & Management Strategy, organized by California State University, San Bernardino, USA, CSIR, NEERI, Institute of Management Technology, Nagpur, September 30-October 1, 2021
- An empirical study on adoption of eco-friendly cars in view of sustainable development in automobile industry (co-researcher Mitra, C.), Global Conference on Sustainability and Innovation Management Practice in Uncertain Times, organized by Shri Chimanbhai Patel Institute of Management & Research, August 14, 2021
- Green Marketing: an Integral Phenomenon of Modern Marketing Concept with special reference to Sustainable Development in Automobile Industry (co-researcher Mitra, C.), 7<sup>th</sup> International Conference on Sustainability and Management Strategy, organized by California State University, San Bernardino, USA, CSIR-NEERI, Institute of Management Technology, Nagpur, September 30-October 1, 2021
- An innovative approach for modelling firm performance using modified Johari supply chain window (co-researcher Roy, R.), Global conference on sustainability & innovation management practices in uncertain times, organized by Shri Chimanbhai Patel Institute of Management & Research, August 14, 2021
- Analyzing the impact of green human resource management practices on employee motivation and sustainable performance management (co-researcher Mitra, C.), International Conference on Role of HR in New Normal-2021, organized by Institute of Management Technology, Nagpur, April 9, 2021
- Women in Small Entrepreneurial Ventures in Kolkata: A Study of Motivational Factors and Challenges (co-researcher Sami, S.), Global Conference on Innovation in Management and Business, organized by Chapman University, Howard University and National Institute of Technology, Warangal, July 27-28, 2021
- Assessing impact of Covid pandemic on role transition and effectiveness of remote working in the face of challenges in Human Resource Management (co-researcher Sami, S.), International Conference on the role of HR in the New Normal-2021, organized by Institute of Management Technology, Nagpur, April 9, 2021
- An innovative approach to understanding strategic supply chain issues and risks through modified Johari supply chain window (co-researcher Roy, R.), Global conference on innovations in management and business, organized by Chapman University, USA, Howard University, USA, NIT Warangal, July 27-28, 2021
- An analytical study on the utilization of eco-friendly cars in the perspective of sustainable development in automobile industries (co-researcher, Mitra, C.), Global Conference on Innovation in Management and Business, organized by Chapman University, USA, Howard University, USA, and National Institute of Technology, Warangal, July 27-28, 2021

- Identifying key issues and risks involved in new-normal situation for improving employee satisfaction: An MSME Case Study (co-researcher Roy, R.), International Conference on Role of HR in the New Normal-2021, organized by Institute of Management Technology, Nagpur, April 9, 2021
- Evaluation of low-cost sensor for PM<sub>2.5</sub> Assessment: A case study of California State (co-researcher Biswas, J.), 113<sup>th</sup> Annual Conference & Exhibition of Air and Waste Management Association, organized by Air and Waste Management Association, June 29 - July 2, 2020
- Assessment of impact of marine emissions in a major port in India (co-researcher Biswas, J.), 12<sup>th</sup> International Conference on Air Quality Science and Application, organized by University of Hertfordshire, UK and Aristotle University, Thessaloniki, Greece, April 6, 2020
- Evaluation of impact of marine emissions on air quality and potential policy formulation (co-researcher Biswas, J.), 113<sup>th</sup> Annual Conference & Exhibition of Air and Waste Management Association, June 29-July 2, 2020
- Assessment of Impact of Marine Emissions of Ocean-going Vessels in a major port in India (co-researcher Biswas, J.), 109<sup>th</sup> Annual Conference & Exhibition of Air and Waste Management Association, organized by Air and Waste Management Association, held at New Orleans, Louisiana, USA, held in June 2016
- Evaluation of impact of local and regional source regions on pollution levels in Delhi, India (co-researcher Biswas, J.), 107<sup>th</sup> Annual Conference and Exhibition, Long Beach, California, USA, June 24-27, 2014
- Meteorologically adjusted trend analysis of surface ozone concentrations in Delhi, India (co-researcher Biswas, J.), 107<sup>th</sup> Annual Conference and Exhibition, Long Beach, California, USA, June 24-27, 2014.

**Universities/ Institute visited:**

Stanford University, USA

Korea University, Seoul, South Korea

Fu Jen University, Taipei, Taiwan

National Cheng-Kung University, Tainan, Taiwan

University of California, Davis, USA

Panjab University, Chandigarh

Sardar Patel University, Vallabh Vidyanagar, Gujarat

Utkal University, Bhubaneswar, Odisha

Kurukshetra University, Kurukshetra

Banaras Hindu University, Banaras

Andhra University, Visakhapatnam

North Bengal Agricultural University, Cooch Behar

Indian Statistical Institute, Delhi