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<http://www.dtu.ac.in/Web/Departments/Humanities/faculty/nandkumar.php> (Website)

- Education:** PhD, Delhi Technological University
M.A Economics, CESP, Jawaharlal Nehru University
B.A (Hons) - Economics, University of Delhi
- Experience:** Professor Delhi Technological University 2019 - Present
Associate Professor Delhi Technological University 2016 - 2019
Assistant Professor Delhi Technological University 2001 - 2015
Probation Officer, Bihar Public Service Commission 1997 - 2001
- PhD Guided:** **Eight** scholars awarded and currently ten scholars are enrolled
- Research Area:** International Trade & Agriculture
Efficiency Analysis of Banking sector
Applied Econometrics
- Articles:** Book Chapter- 06
Published Articles- 92

Publications:

Journal Publication

Kumar, S., & Kumar, N. (2025). A novel robust framework for the identification of component weights in the Girton-Roper exchange market pressure index. *Communications in Statistics - Theory and Methods*.

Kumar, S., & Kumar, N. (2025). Incorporating asymmetric volatility and persistence: an EGARCH-based extension of the Girton–Roper model for measuring exchange market pressure in India. *Macroeconomics and Finance in Emerging Market Economies*.

Jaiswal, K., & Kumar, N. (2025). How Does Inward FDI Lead to Trade Performance and Sustainable Growth in India? *Journal of Lifestyle and SDGs Review*.

- Kumar, S., & Kumar, N. (2024). Exchange Market Pressure, Government Debt, US Money Supply, GDP Growth and Maritime Trade: An Empirical Evidence from India. *The International Journal of Maritime Engineering*.
- Kathuria, K., & Kumar, N. (2024). Examining the Dynamics of India's Major Exchange Rates Using Fourier Nonlinear Quantile Unit Root Test. *Asia-Pacific Financial Markets*.
- Singh, A., & Kumar, N. (2024). Analysis of renewable energy and economic growth of Germany. *THE SCIENTIFIC TEMPER*.
- Jaiswal, K., & Kumar, N. (2024). Symmetric and Asymmetric Association Between Foreign Direct Investments and Macroeconomic Variables: An Ardl Approach. *Revista de Gestão Social e Ambiental*.
- Beniwal, M., Singh, A., & Kumar, N. (2024). Forecasting multi step daily stock prices for long-term investment decisions: A study of deep learning models on global indices. Vol 1 29, March 2024, 107617.
- Singh, A., & Kumar, N. (2024). Analysing the long run relationship between CO2 emissions and Energy use of United Kingdom.
- Beniwal, M., Singh, A., & Kumar, N. (2023). Alternative to Buy-and-Hold: Predicting Indices Direction and Improving Returns Using a Novel Hybrid LSTM Model. *International Journal on Artificial Intelligence Tools*.
- Beniwal, M., Singh, A., & Kumar, N. (2023). Forecasting long-term stock prices of global indices: A forward-validating Genetic Algorithm optimization approach for Support Vector Regression. *Applied Soft Computing*, 110566.
- Beniwal, M., Singh, A., & Kumar, N. (2023, May). Predicting Next Quarter Nifty 50 Price using Genetic Algorithm and Support Vector Regression. In *2023 2nd International Conference on Applied Artificial Intelligence and Computing (ICAAIC)* (pp. 631-635). IEEE.
- Singh, A., Lal, S., Kumar, N., Yadav, R., & Kumari, S. (2023). Role of nuclear energy in carbon mitigation to achieve United Nations net zero carbon emission: evidence from Fourier bootstrap Toda-Yamamoto. *Environmental Science and Pollution Research*, 30(16), 46185-46203.
- Singh, A., & Kumar, N. (2023, August). Assessing the Relationship Among Energy, Economy, and Environment with a Special Reference to India. In *International Conference on Trends and Recent Advances in Civil Engineering* (pp. 427-440). Singapore: Springer Nature Singapore.
- Shita, A., Kumar, N., & Singh, S. (2023). Agricultural technology adoption and rural poverty in Ethiopia. *International Journal of Technology Transfer and Commercialisation*, 20(2), 183-195.
- Singh, A., Kumari, S., Singh, B., & Kumar, N. (2022). Investigating the economic and environmental sustainability of logistic operations in India using ARDL procedure. *Advanced Production and Industrial Engineering*, 81-90.
- Kathuria, K., & Kumar, N. (2022). Pandemic-induced fear and government policy response as a measure of uncertainty in the foreign exchange market: Evidence from (a) symmetric wild bootstrap likelihood ratio test. *Pacific Economic Review*, 27(4), 361-379.
- Gupta, S., & Kumar, N. (2022). Globalization Versus Slowbalization: A Perspective on the Indian Economy. *Journal of South Asian Development*, 17(1), 84-107.
- Kumar, N., Singh, B., Shita, A., & Jaiswal, K. (2021). *Investigating Post Economic Reforms Determinants of Agriculture Growth in India by using ARDL Approach*. IASSI Quarterly: Contributions to Indian Social Science, Vol. 40, No. 3, 2021
- Shita, A., Kumar, N., & Singh, S. (2021). *Technology, poverty and income distribution nexus: The case of fertilizer adoption in Ethiopia*. African Development Review.
- Kumar, N., & Kathuria, K. (2021). *A Critical Appraisal of the Import Demand Literature*. International Journal of Advanced Production and Industrial Engineering. Vol. 5, Issue 2, 2020, 64.
- Kumar, S., & Kumar, N. (2021). *Testing normality in the time series of EMP indices: an application and power-comparison of alternative tests*. Communications in Statistics-Theory and Methods, 1-14.
- Kathuria, K., & Kumar, N. (2021). *Are exports and imports of India's trading partners cointegrated? Evidence from Fourier bootstrap ARDL procedure*. Empirical Economics, 1-15.
- Kathuria, K., & Kumar, N. (2021). *An Empirical Investigation of the Disaggregated Import Demand Function: Non-linear ARDL Framework*. Foreign Trade Review, 56(2), 197-205.

- Gupta, S., & Kumar, N. (2021). *Dynamics of globalization effect in India*. Managerial and Decision Economics.
- Kathuria, K., & Kumar, N. (2021). *Factors Affecting Import Demand in India: A Principal Component Analysis Framework*. In *Advances in Manufacturing and Industrial Engineering* (pp. 585-595). Springer, Singapore.
- Kumar, R., Kumar, N., Shita, A., & Pandey, S. K. (2021). *Lead-Lag Relationship Between Spot and Futures Prices of Indian Agri Commodity Market*. In *Advances in Manufacturing and Industrial Engineering* (pp. 339-348). Springer, Singapore.
- Gupta, S., & Kumar, N. (2020). *Time varying dynamics of globalization effect in India*. Portuguese Economic Journal, 1-17.
- Gupta, S., & Kumar, N. (2021). *Three decades of narrow globalization: Evaluating India's exports between 1991 and 2017*. Managerial and Decision Economics, 42(2), 343-359.
- Gupta, S., & Kumar, N. (2020). *Time varying dynamics of globalization effect in India*. Portuguese Economic Journal, 1-17.
- Chawla, G., Gupta, M., Sharma, N., Aggarwal, K., M Singari, R., & Kumar, N. (2020). *Statistical Analysis of the Relation Between the Developmental Status of Nations and Their Banks' Npa Using Hypothesis Testing*. International Journal of Management, 11(8).
- Shita, A., Kumar, N., & Singh, S. (2020). *The impact of agricultural technology adoption on income inequality: a propensity score matching analysis for rural Ethiopia*. International Journal of Information and Decision Sciences, 12(1), 102-114.
- Shita, A., Kumar, N., & Singh, S. (2020). *Economic Benefit of Agricultural Technology on Teff and Maize Crops in Ethiopia: The Blinder-Oaxaca Decomposition*, Journal of Poverty.
- Shita, A., Kumar, N., & Singh, S. (2018). *Determinants of agricultural productivity in Ethiopia: ARDL approach*. The Indian Economic Journal, 66(3-4), 365-374.
- Shita, A., Kumar, N., & Singh, S. (2018). *Agricultural technology adoption and its determinants in Ethiopia: A reviewed paper*, Asia Pacific Journal of Research.
- Kumar, N., & Singh, A. (2017). *Efficiency evaluation of select Indian banks using fuzzy extended data envelopment analysis*, IJIDS, 9(4).
- Kumar, N., & Singh, A. (2015). *Measuring Technical and Scale Efficiency of Banks in India Using DEA*. IOSR Journal of Business and Management (IOSR-JBM)
- Kumar, N. et. al (2014). *Surface Finish Monitoring in CNC Turning Using RSM and Taguchi Techniques*. International Journal of Emerging Technology and Advanced Engineering
- Kumar, N., & Singh, A. (2014). *A Study of Technical Efficiency of Banks in India Using DEA*. IOSR Journal of Business and Management (IOSR-JBM)
- Kumar, N. et. al (2014). *Portfolio Optimization: Indifference Curve Approach*. International Journal of Advance Research and Innovation
- Kumar, N. (2014). *Efficiency Analysis of Banks using DEA: A Review*. International Journal of Advance Research and Innovation

Chapters in Edited Books

- Nand Kumar, Ranganath M.S., Vandana Rana, Yogesh Kalyan: *Evaluation of Efficiency of Health Care Organizations Using Data Envelopment Analysis*. Proceedings of International conference on Advanced Production and Industrial Engineering, First edited by Ranganath M. Singari, Nand Kumar, 12/2016: chapter 51: pages 370-379; I. K. International Publishing House Pvt. Ltd., ISBN: 9789385909511
- Dishant Shahi, Nand Kumar: *Price Game in a Monopoly and Duopoly Competition in Manufacturing Sector*. Proceedings of International conference on Advanced Production and Industrial Engineering, First edited by Ranganath

M. Singari, Nand Kumar, 12/2016: chapter 53: pages 387-390; I. K. International Publishing House Pvt. Ltd., ISBN: 9789385909511

Sullivan, William G; Wicks, Elin M.; Koelling Patrick C; Kumar, Pravin; Kumar, Nand: *Engineering Economy*, Fifteenth Edition, Pearson

Park, Chan S; Kumar, Pravin; Kumar, Nand: *Fundamentals of Engineering Economics*, Third Edition, Pearson

Guest Editor

Guest editor of Special Issue of International Journal of Knowledge Based Organisation titled “Industry 4.0: Creating a knowledge economy”, IGI Global Publication to be due for publication in July 2022.

Guest editor of Special Issue of International Journal of Public Sector Performance Management titled “Disruptions in Business”, Inderscience Publication.

Conference Proceedings

Effect on Ground Water Level with Increase in Car ownership in New Delhi, International Conference of Advance Research and Innovation, ICARI-AS-15-01-110; 01/2015

Mathematical Modelling of Crop Yield Forecasting and Forewarning of Pests/Diseases, International Conference of Advance Research and Innovation, ICARI-AS-15-01-117; 01/2015

Error Spotting: A Tool for Better Language Learning and Teaching, International Conference of Advance Research and Innovation, ICARI-HU-15-01-106; 01/2015

Comparative Analysis of Dividend Forecasting Methods, International Conference of Advance Research and Innovation, ICARI-AS-15-01-115; 01/2015

Analyzing and Forecasting the Mobile Tele density Growth in India. International Conference of Advance Research and Innovation, ICARI-AS-15-01-116; 01/2015

The Journey towards Liberation: Integrating Rationalistic Thought Process and Human Imagination in search of Truth. ISTE 165, Delhi Section Convention of Indian Society for Technical Education (ISTE) on “*Technological Universities and Institutions in New Knowledge Age: Future Perspectives and Action Plan*”, during 05-06 September 2013, 09/2013

Growth of Technical Institutions in India. ISTE 163, Delhi Section Convention of Indian Society for Technical Education (ISTE) on “*Technological Universities and Institutions in New Knowledge Age: Future Perspectives and Action Plan*”, during 05-06 September 2013; 09/2013

A Portfolio Selection Problem: Cash Flow Matching Approach. ICRTCTA- APRIL 21-23, 2012; 04/2012

Efficiency Analysis of Banking Sector in India Using DEA. ICBSM 350; 06/2011

A case Analysis of Logistics System in India. ICOMS 2011, IMT Nagpur; 01/2011

Sustainability Analysis of Banking Sector in India using DEA. Conference on Inclusive & Sustainable Growth, Role of Industry, Government and Society; 01/2011

Impact of Components of Globalisation on the economic growth of India; An Empirical Study at GLOGIFT 17, International Conference, Delhi Technological University, Delhi, December 11-13, 2017

Impact of Globalisation on the economic growth of India at International Conference on Advanced Production and Industrial Engineering, Delhi Technological University, October 6-7, 2017

Impact of Global Financial Crisis on the exports of Indian Economy (Gravity Model Approach) at VINC’18, National conference at VIPs, Delhi, March 14-15, 2018.

Imperatives of Creative Destruction: A relook at Globalisation-Growth-Innovation nexus for the Indian Economy at International Conference on Business and Management, Organized by Delhi School of Management, DTU on 29-30 March, 2019. (Abstract Published)

Measuring the measures of globalisation: A review at ICARI’19, ISBN-9789353463243 on Jan 20 2019

Measuring the Effect of Tariff and Non- Tariff measures on trade growth at ICARI'19, ISBN-9789353463243 on Jan 20 2019

How does inward FDI lead to trade performance in India? An empirical investigation through ARDL approach at ICARI'21, ISSN 2347 – 3258 on Jan 30 2021

Effects of pandemic on economic development and sustainable development goals (with special reference to novel Corona virus) at ICARI'21 (held online), ISSN 23473258 on Jan 30 2021

Role of different energy sources in India's energy transition at ICARI'21, ISSN 23473258 on Jan 30 2021