

Vaibhav S. Narwane, Ph.D.

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CAREER OBJECTIVE- To obtain a challenging position in Mechanical Engineering domain where I can apply my rich research experience and academic skills to improve the overall performance of organizations

EMPLOYMENT- Associate Professor, K J Somaiya College of Engineering, Somaiya Vidyavihar University (SVU), Mumbai, India

EDUCATION

University of Mumbai, Veermata Jijabai Technological Institute (VJTI), Maharashtra
Ph.D., Department of Production Engineering, 2020

Dissertation: “Determinants of Cloud of Things in Small and Medium Enterprises”

Committee: Dr B.E Narkhede (NITIE), Dr K.P Karunakaran (IIT Bombay), Dr W.S Rathod (VJTI), Dr Rakesh Raut (NITIE).

Examiners: Dr S. G. Deshmukh (IIT, Delhi), Dr S.S Mahapatra (NIT, Raurkela), Dr M.Rajamohan (Anna University),

Swami Ramanand Teerth Marathawada University, Shri Guru Govind Singhji College of Engineering and Technology (SGGS), Nanded, Maharashtra

M.E, Mechanical Engineering (CAD/CAM), First Class with Distinction, 2002

Thesis: Simulation of JIT Manufacturing Systems using ARENA

Advisor: Dr JVL Venkatesh

Dr. Babasaheb Ambedkar Marathawada University, Jawaharlal Nehru Engineering College, Aurangabad

B.E, Mechanical Engineering, First Class with Distinction, 2000

RESEARCH AREAS

Sustainable manufacturing; Supply Chain; Sustainable Supply Chain management; Smart Manufacturing; Artificial Intelligence; Machine Learning; Circular Economy; Project Management; Decision Support System; Interdisciplinary Research

RECOGNITIONS

- Chairman, Board of Studies in Robotics and Artificial Intelligence of Mechanical Engineering of K. J. Somaiya COE, Somaiya Vidyavihar University, Mumbai
- Ph.D. Guide in Mechanical Engineering approved by Somaiya Vidyavihar University, Mumbai

- Approved teacher for Post Graduate program in Mechanical Engineering of University of Mumbai
- Approved teacher for Undergraduate program in Mechanical Engineering of University of Mumbai
- Fellow of Indian Institution of Industrial Engineering

RESEARCH IMPACT (as on 31.07.2023)

- Google Scholar - Citations :1481; h-index: 19; i10-index: 24
- Research Gate- RI Score: 966.8; Recommendations: 652; Reads: 22,029
- Published 40 research articles in 30 Scopus Indexed Journals
- More than 80 publications in International/National Journals and Conferences
- Guest editor of Special Issue "Machine Learning Methods and IoT for Sustainability" Sustainability Journal (Impact Factor-3.889, Citescor-5.0, MDPI Publisher)
- Editorial Board Member of International Journal "Digital Manufacturing Technology" and "Journal of Management Science & Engineering Research"
- Co-Guide for PhD (Science and Technology) degree course in the subject of Mechanical Engineering for University of Mumbai
- Guided more than 20 Master's Degree Projects

ACHIEVEMENTS

- Secured first rank in Master's Degree at Shri Guru Govind Singhji College of Engineering and Technology, Nanded
- Stood First in the PhD course work (9.75 CPI).
- Best Paper 2016-17, Indian Institution of Industrial Engineering, Awarded on September 15, 2017
- First prize under faculty category National Essay Competition at National Institute of Industrial Engineering (NITIE), Mumbai in February, 2019
- Award of Appreciation in the International Conference on Embracing Industry 4.0 Technologies for Sustainable Growth (ICEI 4.0) at RGIT, Mumbai in April, 2022

SCHOLARLY PUBLICATIONS

2023

1. Kavre, M. S., **Narwane, V. S.**, Gardas, B. B., and Sunnapwar, V. K. (2023) "Role of Human Factors in Cloud Manufacturing Adoption across Manufacturing Micro, Small, and Medium Enterprises" *International Journal of Computer Integrated Manufacturing* 36(4), 611-633 (Scopus Indexed; **Impact Factor: 4.42**; Publisher: Taylor and Francis DOI: <https://doi.org/10.1080/0951192x.2022.2128215>)
2. Tambuskar, D. P., Jain, P., and **Narwane, V. S.** (2023). An exploration into the factors influencing the implementation of big data analytics in sustainable supply chain management. *Kybernetes* (Scopus Indexed; **Impact Factor: 1.765**; **h-index 40**; Publisher: Elsevier; DOI: <https://doi.org/10.1108/k-07-2022-1057>)
3. Jain, P., Tambuskar, D. P., and **Narwane, V. S.** (2023). Is the Implementation of Big Data Analytics in Sustainable Supply Chain Really a Challenge? The Context of the Indian Manufacturing Sector. *International Journal of Innovation and Technology*

Management, 2350033. (Scopus Indexed; *Impact Factor: 1.917; h-index 24; Publisher: World Scientific; DOI: <https://doi.org/10.1142/S0219877023500335>*)

4. Pansare, R. B., Nagare, M. R., and **Narwane, V. S.** (2023). Exploring the significant factors of reconfigurable manufacturing system adoption in manufacturing industries. *Journal of Modelling in Management (Scopus Indexed; ABDC indexed Journal: 'C' Category; Impact Score: 2.24; h-index 29; Publisher: Emerald; DOI: <https://doi.org/10.1108/JM2-12-2022-0286>)*
5. Ganjare, S. A., Satao, S. M., & **Narwane, V. S.** (2023) "Systematic Literature Review of Machine Learning for Manufacturing Supply Chain" *The TQM Journal (Scopus Indexed; Quartile Q1; Impact Score: 5.85; h-index 74; Publisher: Emerald; DOI: <https://doi.org/10.1108/TQM-12-2022-0365>)*

2022

6. **Narwane, V. S.**, Raut, R. D., Gardas, B. B., Narkhede, B. E., & Awasthi, A. (2022), "Examining smart manufacturing challenges in the context of micro, small and medium enterprises", *International Journal of Computer Integrated Manufacturing*, 1-18 (Scopus Indexed; *Impact Factor: 4.42; Publisher: Taylor and Francis; DOI: <https://doi.org/10.1080/0951192X.2022.2078508>*)
7. Velani, A., **Narwane, V.S.**, and Gardas, B. B. (2022), "Contribution of Internet of Things in Water Supply Chain Management: A Bibliometric and Content Analysis", *Journal of Modelling in Management (Scopus Indexed; ABDC indexed Journal: 'C' Category; Impact Score: 2.24; h-index 29; Publisher: Emerald; DOI: <https://doi.org/10.1108/JM2-04-2021-0090>)*
8. Dhage, S.S., **Narwane, V.S.**, Raut, R.D., Gardas, B.B., Dere N., & Narkhede, B.E. (2022) "Mathematical programming model to optimize an environmentally constructed supply chain: A genetic algorithm approach", *International Journal of Operational Research* 144(2), 226-253. (Scopus Indexed; ABDC indexed Journal: 'C' Category; *Impact Factor: 0.52; h-index 27; Publisher: Inderscience Enterprise Ltd, DOI: <https://doi.org/10.1504/ijor.2021.10026395>*).
9. Jain, P., Tambuskar D. P., and **Narwane, V. S.** (2022) "Identification of Critical Factors for Big Data Analytics Implementation in Sustainable Supply Chain in Emerging Economies" *Journal of Engineering, Design and Technology*, (ahead-of-print). (Scopus Indexed; *Impact Factor: 1.765; h-index 40; Publisher: Elsevier; DOI: <https://doi.org/10.1108/JEDT-12-2021-0739>*)
10. Kavre, M. S., Gardas, B. B., **Narwane, V. S.**, Navimipour, N. J., and Yalcin, S. (2022) "Evaluating the Effect of Human Factors on Big Data Analytics and Cloud of Things Adoption in the Manufacturing Micro, Small, and Medium Enterprises" *IT Professional (Scopus Indexed; Impact Factor: 2.6; h-index 50; Publisher: IIE Xplore)*
11. Parthiban S., Gedam V., Narkhede, B.E, **Narwane, V.S.**, and Gotmare A. (2022) "Sustainable implementation drivers and barriers of lean agile manufacturing in original equipment manufacturers: A literature review study", *International Journal of Business Excellence* 26(1) (Scopus Indexed; ABDC indexed Journal: 'C' Category; *Impact Factor: 0.95; h-index 26; Publisher: Inderscience Enterprise Ltd, DOI: <https://doi.org/10.1504/IJBEX.2022.121587>*).

2021

12. **Narwane, V. S.**, Yadav, V. S., Raut, R. D., Narkhede, B. E., & Gardas, B. B. (2021), "Sustainable development challenges of the biofuel industry in India based on integrated MCDM approach", *Renewable Energy*, 164, 298-309 (*Scopus Indexed; ABDC indexed Journal: 'A' Category; Impact Factor: 8.001; h-index 110; Publisher: Elsevier; DOI: <https://doi.org/10.1016/j.renene.2020.09.077>*)
13. **Narwane, V.S.**, Raut, R.D., Yadav, V. S., Cheikhrouhou, N., Narkhede, B. E. & Priyadarshinee, P (2021) "The role of big data for Supply Chain 4.0 in manufacturing organisations of developing countries" *Journal of Enterprise Information Management. (Scopus Indexed; ABDC indexed Journal: 'A' Category; Impact Factor 5.839; h-index 61; Publisher: Emerald; DOI: <https://doi.org/10.1016/j.renene.2020.09.077>*)
14. **Narwane, V. S.**, Raut, R. D., Mangla, S. K., Dora, M., & Narkhede, B. E. (2021). "Risks to big data analytics and blockchain technology adoption in supply chains". *Annals of Operations Research*, 1-36. (*Scopus Indexed; ABDC indexed Journal: 'A' Category; Impact Factor: 4.854; h-index 96; Publisher: Springer; DOI: <https://doi.org/10.1007/s10479-021-04396-3>*).
15. **Narwane, V.S.**, Gardas, B.B., Raut, R.D., Priyadarshinee P., and Narkhede, B.E. (2021) "The influence of Internal-External Factors on the Cloud Computing Adoption", *International Journal of Business Information Systems*, 38(3), 324-342 (*Scopus Indexed; ABDC indexed Journal: 'C' Category; Impact Factor: 0.95; h-index 26; Publisher: Inderscience Enterprise Ltd; DOI: <https://doi.org/10.1504/ijbis.2021.119415>*).
16. Raut, R., **Narwane, V. S.**, Mangla, S. K., Yadav, V. S., Narkhede, B. E., & Luthra, S. (2021). "Unlocking causal relations of barriers to big data analytics in manufacturing firms", *Industrial Management & Data Systems. (Scopus Indexed; ABDC indexed Journal: 'A' Category; Impact Factor: 4.42 ;h-index 103; <https://doi.org/10.1108/IMDS-02-2020-0066>*)
17. Maroli, A., **Narwane, V. S.**, & Gardas, B. B. (2021). "Applications of IoT for achieving sustainability in agricultural sector: A comprehensive review", *Journal of Environmental Management*, 298, 113488. (*Scopus Indexed; ABDC indexed Journal: 'A' Category; Impact Factor: 6.789; h-index 179; Publisher: Elsevier; DOI: <https://doi.org/10.1016/j.jenvman.2021.113488>*)
18. Thavi, R.R., **Narwane, V.S.**, Jhaveri, R.H. and Raut, R.D. (2021), "To determine the critical factors for the adoption of cloud computing in the educational sector in developing countries – a fuzzy DEMATEL approach", *Kybernetes*, 10.1108/K-12-2020-0864. (*Scopus Indexed; Impact Factor: 1.765; h-index 40; Publisher: Elsevier; DOI: <https://doi.org/10.1108/k-12-2020-0864>*)
19. Thavi, R.R., Jhaveri, R.H., **Narwane, V.S.**, Gardas, B. B., and Navimipour, N. J. (2021), "Role of cloud computing technology in the education sector", *Journal of Engineering, Design and Technology*, (*Scopus Indexed; Impact Factor: 1.765; h-index 40; Publisher: Elsevier; DOI: <https://doi.org/10.1108/JEDT-08-2021-0417>*)
20. Maroli A. A., **Narwane, V. S.**, Raut, R. D., & Narkhede, B. E. (2020), "Framework for the implementation of an IoT based water distribution and management system", *Clean Technologies and Environmental Policy*, 23(1), 271-283 (*Scopus Indexed; Impact Factor: 2.429;h-index 55; Publisher: Springer; DOI: <https://doi.org/10.1007/s10098-020-01975-z>*)
21. Raut, R. D., Mangla, S. K., **Narwane, V. S.**, Dora, M., & Liu, M. (2021), "Big Data Analytics as a mediator in Lean, Agile, Resilient, and Green (LARG) practices effects on sustainable supply chains", *Transportation Research Part E: Logistics and Transportation Review*, 145, 102170 (*Scopus Indexed; ABDC indexed Journal: 'A*'*

- Category; *Impact Factor:4.69; h-index 110; Publisher: Elsevier; DOI: <https://doi.org/10.1016/j.tre.2020.102170>*).
22. Kumar, S., Raut, R. D., **Narwane, V. S.**, Narkhede, B. E., & Muduli, K. (2021). "Implementation barriers of smart technology in Indian sustainable warehouse by using a Delphi-ISM-ANP approach", *International Journal of Productivity and Performance Management. (Scopus Indexed; ABDC indexed Journal: 'B' Category; Impact Factor: 2.77 ;h-index 61; Publisher: Emerald; DOI: <https://doi.org/10.1108/ijppm-10-2020-0511>)*
 23. Shah, H. M., Gardas, B. B., **Narwane, V. S.**, & Mehta, H. S. (2021). The contemporary state of big data analytics and artificial intelligence towards intelligent supply chain risk management: a comprehensive review. *Kybernetes (Scopus Indexed; Impact Factor: 1.765; h-index 40; Publisher: Elsevier, DOI: <https://doi.org/10.1108/K-05-2021-0423>)*
 24. Gabani P.,Gala U., **Narwane, V. S.**, Raut, R. D., Narkhede, B. E., and Govindarajan, U. (2021) "A Viability Study Using Conceptual Models for Last Mile Drone Logistics Operations in Populated Urban Cities of India", *IET Collaborative Intelligent Manufacturing. (Scopus Indexed; Impact Factor: 0.355; Publisher: Wiley; DOI: <https://doi.org/10.1049/cim2.12006>)*
 25. Raut, R. D., Yadav, V. S., Cheikhrouhou, N., **Narwane, V. S.**, & Narkhede, B. E. (2021) "Big data analytics: Implementation challenges in Indian manufacturing supply chains", *Computers in Industry, 125, 103368 (Scopus Indexed; ABDC indexed Journal: 'A' Category; Impact Factor:7.635; h-index 100; Publisher: Elsevier; DOI : <https://doi.org/10.1016/j.compind.2020.103368>)* .
 26. Nayal, K., Raut, R. D., Priyadarshinee, P., Narkhede, B.E., Kazancoglu, Y., and **Narwane, V. S.** (2021). "Exploring the role of artificial intelligence in managing agricultural supply chain risk to counter the impacts of COVID-19 pandemic", *International Journal of Logistics Management. (Scopus Indexed; ABDC indexed Journal: 'A' Category; Impact Factor: 5.212; h-index 77; Publisher: Emerald; DOI: <https://doi.org/10.1108/ijlm-12-2020-0493>)*
 27. Gedam, V. G., Raut, R. D., Inamdar, Z.Z., Narkhede, B.E., Dharaskar, S., and **Narwane, V. S.** (2021). "COVID-19 critical success factors in Indian Healthcare sector- a DEMATEL Approach", *Journal of Multi-Criteria Decision Analysis. (Scopus Indexed; Impact Factor: 0.355; h-index 62; Publisher: Wiley; DOI: <https://doi.org/10.1002/mcda.1763>)*

2020

28. **Narwane, V. S.**, Raut, R. D., Mangla, S. K., Gardas, B. B., Narkhede, B. E., Awasthi, A., & Priyadarshinee, P. (2020), "Mediating role of cloud of things in improving performance of small and medium enterprises in the Indian context", *Annals of Operations Research, 1-30. (Scopus Indexed; ABDC indexed Journal: 'A' Category; Impact Factor: 4.854; h-index 96; Publisher: Springer; DOI: <https://link.springer.com/article/10.1007/s10479-019-03502-w>)*.
29. **Narwane, V. S.**, Raut, R. D., Yadav, V. S., & Singh, A. R. (2020), "Barriers in sustainable industry 4.0: a case study of the footwear industry", *International Journal of Sustainable Engineering, 1-15. (Scopus Indexed; Impact Factor: 2.3; Publisher: Taylor and Francis Online; DOI: <https://doi.org/10.1080/19397038.2020.1836065>)* .
30. Inamdar, Z.Z., Raut, R.D., **Narwane, V.S.**, Gardas, B. B., Narkhede, B.E., & Sagnak, M. (2020), "A systematic literature review with bibliometric analysis of big data analytics adoption from period 2014 to 2018", *Journal of Enterprise Information*

- Management. (*Scopus Indexed; ABDC indexed Journal: 'A' Category; Impact Factor 5.839; h-index 61; Publisher: Emerald Publishing Limited; DOI: <https://doi.org/10.1108/JEIM-09-2019-0267>*).
31. Mangla, S.K., Raut, R., **Narwane, V.S.**, Zhang, Z. & Priyadarshinee, P. (2020), "Mediating effect of big data analytics on project performance of small and medium enterprises", *Journal of Enterprise Information Management (Scopus Indexed; ABDC indexed Journal: 'A' Category; Impact Factor 5.839; h-index 61; Publisher: Emerald Publishing Limited; DOI: <https://doi.org/10.1108/jeim-12-2019-0394>*).
 32. Kumar, M. S., Raut, R. D., **Narwane, V. S.**, & Narkhede, B. E. (2020). "Applications of industry 4.0 to overcome the COVID-19 operational challenges", *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*, 14, 1283-1289 (*Scopus Indexed; CiteScore: 4.9; h-index 40; Publisher: Elsevier; DOI: <https://doi.org/10.1016/j.dsx.2020.07.010>*).
 33. Narkhede, B.E., Raut, R.D., **Narwane, V.S.**, & Gardas, B.B. (2020) "Cloud Computing in healthcare- A vision, challenges and future directions", *International Journal of Business Information Systems*, 34(1), 1-39 (*Scopus Indexed; ABDC indexed Journal: 'C' Category; Impact Factor: 0.95; h-index 26 Publisher: Inderscience Enterprise Ltd, DOI: <https://doi.org/10.1504/IJBIS.2020.106799>*).

2019

34. **Narwane, V. S.**, Raut, R. D., Gardas, B. B., Kavre, M. S., & Narkhede, B. E. (2019), "Factors affecting the adoption of cloud of things", *Journal of Systems and Information Technology*, 21(4), 397-418 (*Scopus Indexed; ABDC indexed Journal: 'C' Category; CiteScore:1.79; Publisher: Emerald Publishing Limited; DOI: <https://doi.org/10.1108/JSIT-10-2018-0137>*).
35. **Narwane, V. S.**, Narkhede, B.E., Raut, R.D., Gardas B. B., Priyadarshinee P. and Kavare, M. S. (2019) "To identify the determinants of the CloudIoT technologies adoption in the Indian MSMEs: structural equation modelling approach", *International Journal of Business Information Systems*, 31(3), 322-353 (*Scopus Indexed; ABDC indexed Journal: 'C' Category; Impact Factor: 0.95; h-index 26; Publisher: Inderscience Enterprise Ltd; DOI: <https://doi.org/10.1504/IJBIS.2019.101110>*).
36. **Narwane, V.S.**, Narkhede, B.E., Gardas, B.B. & Raut, R.D. (2019) "Cloud manufacturing issues and its adoption: past, present, and future", *International Journal of Management Concepts and Philosophy*, 12(2), 168-199 (*Scopus indexed; Impact Factor: 0.05; h-index 3; Publisher: Inderscience Enterprise Ltd; DOI: <https://doi.org/10.1504/IJMCP.2019.099319>*).
37. Shashikumar S., Raut, R.D., **Narwane, V.S.**, Gardas, B.B., Narkhede, B.E., & Awasthi A. (2019) "A Novel Approach to determine Cell Formation using Hybrid Technique", *OPSEARCH*, 56(3), 628-656 (*Scopus Indexed; ABDC indexed Journal: 'C' Category; Impact Factor 1.60; h-index 20; Publisher: Springer International Publishing; DOI: <https://doi.org/10.1007/s12597-019-00381-4>*).
38. Raut, R.D., Narkhede, B.E., **Narwane, V.S.**, & Gardas, B.B., (2019) "Improvement in the Food Losses in Fruits and Vegetable Supply Chain - A Perspective of Cold Third-Party Logistics Approach", *Operations Research Perspectives*, 6, 100-117 (*Scopus Indexed; Impact Factor 0.29; h-index 16; Publisher: Elsevier; DOI: <https://doi.org/10.1016/j.orp.2019.100117>*).
39. Raut, R.D., Mangla S.K., **Narwane, V.S.**, Gardas, B.B., Priyadarshinee P., & Narkhede, B.E. (2019) "Linking Big Data Analytics and Operational Sustainability

- Practices for Sustainable Business Management”, *Journal of Cleaner Production*, 224, 10-24 (*Scopus Indexed; SCI Expanded; ABDC indexed Journal: ‘A’ Category; Impact Factor 9.289; h-index 200; Publisher: Elsevier; DOI: <https://doi.org/10.1016/j.jclepro.2019.03.181>*).
40. Raut, R.D., Gardas, B.B., Narkhede, B.E., & Narwane, V.S. (2019) “To Investigate the Determinants of Cloud Computing Adoption in the Manufacturing Micro, Small & Medium Enterprises: A DEMATEL Based Approach”, *Benchmarking: an International Journal*, 26 (3), 990-1019 (*Scopus Indexed; ABDC indexed Journal: ‘B’ Category; Impact Factor 2.6; h-index 61; Publisher: Emerald Publishing Limited; DOI: <https://doi.org/10.1108/BIJ-03-2018-0060>*).

Book Chapter Articles (Scopus Indexed)

41. Narwane, V. S., Siddavatam, I., & Raut, R. D. (2022). Cloud-Based Manufacturing Service Selection Using Simulation Approaches. *Smart Manufacturing Technologies for Industry 4.0: Integration, Benefits, and Operational Activities*, 49. CRC Press (DOI: <https://doi.org/10.1201/9781003186670-6>)
42. Narwane, V. S., Raut, R. D., & Narkhede, B. E. (2021) Roadmap to Smart Manufacturing for Developing Countries. In *Sustainability in Industry 4.0* (pp. 221-232). CRC Press. (DOI: <https://doi.org/10.1201/9781003102304>)
43. Suroshe, M. S., Narwane, V. S., & Raut, R. D. (2021) Machine Learning Perspective in Additive Manufacturing. In *Sustainability in Industry 4.0* (pp. 161-178). CRC Press. (DOI: <https://doi.org/10.1201/9781003102304>)
44. Gardas, B. B., Narwane, V. S., & Ghongade, N. P. (2021). Analyzing the Obstacles to Sustainable Packaging in the Context of Developing Economies: A DEMATEL Approach. In *Sustainable Packaging* (pp. 71-83). Springer, Singapore. (DOI: <https://doi.org/10.1007/978-981-16-4609-6>)

Journal Articles (International/National- Non-Scopus)

45. Narwane, V.S., Gunasekaran, A., and Gardas, B. B. (2022), “Unlocking adoption challenges of IoT in Indian Agricultural and Food Supply Chain ”, *Smart Agricultural Technology*, 2, 100035, (Directory of Open Access Journals (DOAJ) DOI: <https://doi.org/10.1016/j.atech.2022.100035>)
46. Mehta D.K., Narwane, V. S., Karadge N. R. & Raut, R.D. (2022) “Dynamic Cell Formation With Machine Reliability: Genetic Algorithm Approach”, *Industrial Engineering Journal*, Vol. XV & Issue No. 3 March – 2022
47. Narwane, V. S., Narkhede, B. E., Bhosale V. V., & Jain P.(2020), “Comparative analysis of PID and fuzzy logic controller: A case of furnace temperature control”, *Journal of Current Science and Technology*, 10(2), 109-120
48. Menon, C. B., & Narwane, V. S. (2020) “Relevance of Database and Information Retrieval System in Mechanical Engineering Program: A Case Study”, *Journal of Engineering Education Transformations*, 33, 447-450.
49. Kotian, L., Chheda, A., Narwane, V.S., and Raut, R.D. (2019) “Unmanned Aerial Vehicle for Road Monitoring: Fully Convolutional Networks Approach”, *Industrial Engineering Journal*, Vol. XII & Issue No. 6 June – 2019
50. Inamdar Z.Z., Narwane, V. S., Raut, R.D., and Narkhede, B.E. “Literature Review on Value Stream Mapping Using Bibliometric Tool”, *Industrial Engineering Journal*, Vol. 12 & Issue No. 3 March– 2019

51. Bhattacharjee, R., Kulkarni, K., & **Narwane, V. S.** (2019) “Re-configurable Manufacturing Systems: Research Trends”, *Aweshkar*, 28(1) 63-76.
52. **Narwane, V. S.**, Narkhede, B.E., Raut, R.D., Siddavatam I.A., and Ravishankar B. “A Perspective of Smart Manufacturing: A Case Study” *Industrial Engineering Journal*, Vol. XI & Issue No. 7 July – 2018
53. **Narwane, V.S.**, Samant, A.N. & Siddavatam, I.A. (2017) “Cloud Technology Assessment in Manufacturing Field” *Industrial Engineering Journal*, Vol. X & Issue No. 3 March – 2017
54. Raut, R.D., Shruti S, **Narwane, V.S.** & Jha, M.S. (2017) “Optimization Model of Medical, Nuclear Supply Chain By Using Genetic Algorithm”, *Industrial Engineering Journal*, Vol. X & Issue No. 2 February – 2017
55. Shruti S., **Narwane, V.S.** & Gilke, N.R. (2016) “Study and comparison of the various methods to solve problems in cellular manufacturing”, *Industrial Engineering Journal*, Vol. IX, No. 5, pp. 12-18, May 2016.
56. V. B. Bhamare, **V. S. Narwane** and K. R. Pagar (2015) “Intelligent Alternator Controller: Prototype and Testing” *International Journal of Innovative and Emerging Research in Engineering* Vol. 2, pp 68-73.
57. Oak, S., & **Narwane, V. S.** (2014) “Design, analysis and fabrication of quadruped robot with four bar chain leg mechanism”, *International Journal of Innovative Science, Engineering & Technology*, 1(6), 340-345.
58. Shilpa Bhambure, K.Jayarajan and **V.S.Narwane** (2014) “Kinematic and Finite Element Analysis of A Master Slave Manipulator Gripper” *International Journal of Recent Development in Engineering and Technology* (ISSN 2347-6435(Online) Volume 2, Issue 2, February 2014)
59. Smita, A. G., **Narwane, V. S.**, & Deole, U. (2013) “Kinematic Modeling of Quadraped Robot”, *International Journal on Theoretical and Applied Research in Mechanical Engineering (IJTARME)*, 2(4), 21-26.
60. Husain, A. M., Sohail, S. M., & **Narwane, V. S.** (2012) “Path planning of material handling robot using Ant Colony Optimization (ACO) technique”, *International Journal Engineering Research Application*, 2, 1698-1701.

International Conference (Abroad)

61. Doctor, A., Khirani, D., Raut, R. D., & **Narwane, V. S.** (2019) “Literature Review on Employment of Unmanned Aerial Vehicles for Disaster Management”, *Proceedings of the International Conference on Industrial Engineering and Operations Management*, Pilsen, Czech Republic, July 23-26, 2019
62. Khirani, D., Doctor, A., **Narwane, V. S.**, Raut, R. D., & Narkhede, B. E. (2019) ‘To understand the applications of cloud computing adoption in various sectors’, *Proceedings of the International Conference on Industrial Engineering and Operations Management*, Pilsen, Czech Republic, July 23-26, 2019
63. Narkhede, B.E., **Narwane, V.S.** & Raut, R.D., (2018) “Assessing the Determinants of Cloud Computing Adoption for Education Sector”, *Proceedings of the International Conference on Industrial Engineering and Operations Management Paris, France*, July 26-27, 2018
64. Narkhede, B.E., Raut, R.D., **Narwane, V.S.**, Bhandarkar B. M. & Pundir, A.K. (2018) “Adoption of Cloud Computing in Manufacturing: SWOT Analysis”, *Proceedings of the International Conference on Industrial Engineering and Operations Management Paris, France*, July 26-27, 2018
65. **Narwane V. S.**, Narkhede, B.E., Raut, R.D. & Bhandarkar B. M. (2017) “Cloud Based Manufacturing Systems- Issues, Challenges and Applications”, *Proceedings of*

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International Social Science Journal	Wiley
Journal of Multi-criteria Decision Analysis	Wiley
International Journal of Information Technology & Decision Making	World Scientific
International Journal of Innovation and Technology Management	World Scientific

CAREER HIGHLIGHTS

- ✚ Organizing Committee member for 63rd National Convention of Indian Institution of Industrial Engineering (IIIE) at Vadodara
- ✚ Organizing Secretary for 62nd National Convention of Indian Institution of Industrial Engineering (IIIE) at Mumbai
- ✚ Session Chair for International Conference on “Industry 4.0 – Nascent Technologies and Sustainability for ‘Make in India’ Initiative (SPICON 2022) at SPCE Mumbai
- ✚ Session Chair for International Conference on “Embracing Industry 4.0 Technologies for Sustainable Growth (ICEI 4.0 - 2022) at RGIT, Mumbai
- ✚ Coordinator for Minor degree program of Robotics and Artificial Intelligence from 2020- Till date
- ✚ Coordinator for proposed integrated MBA program from 2022- Till date
- ✚ Treasurer of KJSCE Co-operative Society, Mumbai from 2019- Till date
- ✚ Secretary, Indian Institution of Industrial Engineering, Mumbai Chapter from 2016-2022
- ✚ Worked as Examination In-charge at KJSCE (May/June- 2023 Examination)
- ✚ Member at the college Examination Committee from 2018- Till date
- ✚ Member at the college Result Moderation Committee 2018- Till date
- ✚ Worked as Centre Superintendent for KJSCE- NEET (UG)- 2021, 2022, and 2023
- ✚ Member of Woman Development Cell of KJSCE- 2013 to 2020) and Somaiya Vidyavihar University (SVU), Mumbai from 2022- Till date
- ✚ Member at the college Special Cell from 2012 - Till date
- ✚ Coordinator of Department Examination Committee from 2017-2022
- ✚ Worked as Coordinator for Application Receiving Center (ARC-53 at KJSCE) from 2010 to 2013
- ✚ Worked as Associate HOD of Mechanical Department of the college from 2014 to 2015
- ✚ Coordinator for short term training Program (STTP) on Industry-4.0(Offline Dec.2019-Jan.2020)

- ✚ Conducted ten CNC training programs at KJSCE as Coordinator (Ace CNC Lathe Programming: August 2012, April 2013, August 2014, May 2015, and January 2016) and trainer (CNC Programming: December 2012, January 2014, February 2014, June 2014, and August 2016) – Total 38 Days with more than 200 participants and generated revenue of more than 3.00 Lacs
- ✚ Conducted FDP on “Systematic Literature Review and Meta-Analysis” at IIMS, Pune (03 June, 2023)

KEY EVENTS PARTICIPATED (Last 03 years)

- ✚ IDEA MANTHAN- 2022 organized by ACIC RISE Association, Chandigarh Engineering College, Mohali during 23rd -24th August, 2022
- ✚ “Integrated Approaches on Sustainable Agriculture” organized by Somaiya Institute for Research and Consultancy (SIRAC), Mumbai during 26th -28th April, 2022
- ✚ “Mitsubishi Training for Robotics” organized by Mitsubishi Electric India, Pune during 14th -15th March, 2022
- ✚ “Design Thinking for Educators in the New Normal” organized by Sardar Patel College of Engineering, Mumbai on 28th -30th September, 2020
- ✚ “Smart Manufacturing” organized by IIT, Delhi on 21st August, 28th August, 16th September, 25th September, and 14th October 2020 (05 Days)
- ✚ Workshop on “ Design Thinking for Educators in the New Normal ” organized by SPCE, Mumbai, during 28-30 September, 2020
- ✚ Workshop on “ Industrial Automation Training In Drive, Motion, Control & Robotics” organized by Delta Electronics India, during 13-17 February, 2020
- ✚ FDP on “Innovation, Entrepreneurship and its Relevance in Industry 4.0 Practices in the Post Covid-19 Situation” organized by Terna College of Engineering, Navi Mumbai, during 25 to 29th May 2020
- ✚ FDP on "Research Methodology and Tools" Organized by the Department of Computer Engineering, Sandip Foundation's SITRC, Nashik, during 11-15 May, 2020
- ✚ “ Examination Reforms” organized by AICTE during 22-25 April, 2020

CERTIFICATIONS

- ✚ Summer School organized by Systems and Control Engineering, IIT Bombay, Mumbai during 05-07 July, 2023
- ✚ “Big Data and Trust: Experiences, Challenges, Techniques and Applications” organized by GIAN, Ministry of Human Resources Development, Government of India at VJTI, Mumbai on 26th- 31st December, 2016 with BB Grade
- ✚ Diploma in Carrier System Design course for Package Air Conditioning Equipment conducted by Carrier Mumbai in 2008. Secured IInd position in the batch with 87 percentile.
- ✚ Practical Air Conditioning comprising of Practical Pumps and Piping, Air Handling Units, Electricals and Controls and Cooling Coils conducted by ISHRAE, Mumbai in 2008.
- ✚ Certificate course in AUTO CAD MEP & REVIT MEP by AUTODESK, Mumbai in 2008.
- ✚ Certificate Course in Pro-Engineering from Central Institute of Tool Design (CITD), Hyderabad, in 2002.
- ✚ Pro-Engineer – Wild Fire Training at Rolta India Limited, Mumbai, in 2003.

WORK EXPERIENCE

- ✚ **K.J. Somaiya College of Engineering**, Mumbai (Aug 2009 – Till Date): Associate Professor
- ✚ **Nikhil Comforts** (August 2008 – July 2009): HVAC Design Manager
- ✚ **K.J. Somaiya College of Engg**, Mumbai (July 2004 – Aug 2008): Lecturer
- ✚ **S.S Jondhale College of Engg**, Thane (Feb 2003 – June 2004): Lecturer
- ✚ **Aditya College of Engineering**, Beed (July 2002 – Feb 2003) : Lecturer

REFERENCES

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