

Curriculum vitae

Name- *Dr. Atul Kumar Sahu (Gold medalist at Bachelor of Engineering, Master of Technology, M.B.A, Ph.D (Engineering))*

Government Address: *Industrial & Production Engineering, School of Studies in Engineering and Technology, Guru Ghasidas Vishwavidyalaya (Central University), Bilaspur, chhattisgarh-495009*

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Research Gate link: https://www.researchgate.net/profile/Atul_Sahu2

Google scholar link: <https://scholar.google.co.in/citations?user=y1UOO5MAAAAJ&hl=en>

Google Scholar Citations - 1216 (h index-22 and ithindex-34)

Work Experience:

1. Presently discharging duties in Central University Bilaspur under Department of Industrial and Production Engineering at School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya (Central University), Bilaspur

Designation : **Assistant Professor (selection Grade) – 8000 AGP- Level 12 (7th pay)**

Department : **Industrial & Production Engineering**

Period : **From 21 July 2011 to till date**

Educational Qualifications:

1. Ph.D in Engineering from National Institute of Technology (N.I.T), Raipur (Chhattisgarh), 2020, titled

“Modeling of decision making approaches for industrial and manufacturing practices”

2. Honours in Master of Technology (Mechanical / Production Engineering) from National Institute of Technology (N.I.T), Rourkela (Orissa), 2009.

3. MBA (Master of Business Administration) in Operation Management from Indira Gandhi National Open University (IGNOU).

4. Gold medalist & Honours in Bachelor of Engineering (Industrial & Production Engineering) from Institute of Technology, Guru Ghasidas University (Central University), Bilaspur (C.G), 2007.

Additional Information:

1. Qualified GATE Exam with All India Rank 214 in the year 2007

2. Qualified GATE Exam with All India rank 319 in the year 2008

2. Gold medalist in Bachelor of Engineering (Industrial & Production Engineering) from Institute of Technology.

3. Worked as a Polling & Counting Officer in student council election of Guru Ghasidas Vishwavidyalaya.

4. Member of the Anti Ragging Committee of the Institute.

5. Member of the Discipline Committee of the Institute.

6. Worked as a Co-Coordinator of Tech-Fest (Equilibrio-2015, 2019).

7. Former Member of Board of Studies of the department.

8. Coordinator (Swachchhata program, 2018) for School of Studies in Engineering and Technology.

9. Departmental NAAC coordinator.

Main Subjects / Elective Papers:

- Operation Research, Manufacturing Process
- Production Planning and control, Metrology and Measurement.
- Industrial Engineering, Total Quality Control.
- Production Management, Strength of Material, Measurement Metrology and Control

Reviewed manuscript for journals:

1. International Journal of Fuzzy System Applications - IGI Global
2. Production & Manufacturing Research- Taylor & Francis
3. Benchmarking: An International Journal- Emerald
4. Management Decision- Emerald
5. Environmental Science and Pollution Research-Springer
6. Recent Patents on Computer Science- Bentham Science
7. Annals of operation research- Springer
8. Resources, Conservation and Recycling- Elsevier
9. Production & Manufacturing Research- Taylor & Francis
10. Industrial Management & Data Systems- Emerald
11. Journal of Cleaner Production- Elsevier
12. International Journal of Productivity and Performance Management- Emerald
13. Kybernetes- Emerald
14. Cogent Business and Management -Taylor & Francis
15. RAUSP Management Journal - Emerald
16. International Journal of Management Science and Engineering Management- Taylor & Francis
17. Technology in Society- Elsevier
18. Heliyon- Elsevier
19. Grey systems: theory and applications- Emerald
20. Cogent Engineering -Taylor & Francis
21. Industrial Management and Data Systems- Emerald

Personal Information:

Gender	Male
Marital Status	Married
Date of Birth	19/04/1986
Nationality	Indian
Language	English, Hindi

Guest Editor (Scopus Index Journal)

1. A.K., Sahu, A.K., Sahu, N.K.Sahu (2019), Edited Two Issue on 'Advanced multi criteria decision making approaches application towards sustainable development of industry 4.0 sectors; as Guest Editor for International Journal of Social Ecology and Sustainable Development IGI, Global, USA, Volume 12 issue 2 & Volume 12 issue 3.

Book Publication (Scopus Indexed)

1. Recent Published a book entitled "Industrial and Manufacturing Designs: Quantitative and Qualitative Analysis" in the month of July 2024, which is published under the shadow of John Wiley & Sons.

Link-

https://books.google.co.in/books?hl=en&lr=&id=qTYTEQAAQBAJ&oi=fnd&pg=PP1&dq=info:lotAoY3RsrAJ:scholar.google.com&ots=AUvJL8lkPf&sig=wRCU24tRhYMxpxZVVK0t9Ywv9kA&redir_esc=y#v=onepage&q&f=false

International Journals: International Journals: SCIE/SSCI/ESCI/Scopus

1. Sahu A. K., Sahu, N. K. & Sahu, A. K. (2023). Laminating STRATH block chain technology-SWOT architectures to endure business strategy between digital transformation, firms and supply chains capabilities for sustainability. *Journal of Cleaner Production*, Vol. 383, <https://doi.org/10.1016/j.jclepro.2022.135531>. **Impact factor-11.072**
2. Sahu A. K., Raut, R., Gedam, V.V., Cheikhrouhou, N. & Sahu, A. K. (2023). Lean-agile resilience-green practices adoption challenges in sustainable agri-food supply chains. *International Business Strategy and the Environment*, <https://doi.org/10.1002/bse.3299>. **Impact factor 12.50**
3. Sahu A. K., Sahu, A. K. & Sahu, N. K. (2017). Appraisements of material handling system in context of fiscal and environment extent: a comparative grey statistical analysis. *International Journal of Logistics Management*, Vol. 28, No.1, pp. 2-28. **Impact factor 7.20.**
4. Sahu, A.K., Sharma, M., Raut, R., Gedam, V.V., Agrawal, N. and Priyadarshinee, P. (2024). Effect of lean-green practice and green human resource on supply chain performance: a resource-based view, *Benchmarking: An International Journal*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/BIJ-06-2023-0416>. **Impact factor 4.50.**
5. Sahu, A.K. and Raut, R.D. (2023). Benchmarking quality characteristics for road-mapping sustainability of higher educational institutes and capping Indian portfolio, *Benchmarking: An International Journal*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/BIJ-09-2022-0589>. **Impact factor 4.50.**
6. Sahu, A.K., Sharma, M., Raut, R.D., Sahu, A.K., Sahu, N.K., Antony, J. and Tortorella, G.L. (2023). Decision-making framework for supplier selection using an integrated MCDM approach in a lean-agile-resilient-green environment: evidence from Indian automotive sector, *The TQM Journal*, Vol. 35 No. 4, pp. 964-1006. <https://doi.org/10.1108/TQM-12-2021-0372>. **Impact factor 3.80.**
7. Sahu, A.K., Kumar, A., Sahu, A.K. and Sahu, N.K. (2023). Evaluation of machine tool substitute under data-driven quality management system: a hybrid decision-making approach. *The TQM Journal*, Vol. 35 No. 1, pp. 234-261. <https://doi.org/10.1108/TQM-07-2020-0153>. **Impact factor 3.80.**
8. Bag, S., Sahu, A.K., Kilbourn, P., Pisa, N., Dhamija, P. and Sahu, A.K. (2022). Modeling barriers of digital manufacturing in a circular economy for enhancing sustainability, *International Journal of Productivity and Performance Management*, Vol. 71 No. 3, pp. 833-869. <https://doi.org/10.1108/IJPPM-12-2020-0637>. **Impact factor 5.90.**
9. Sahu, A.K., Narang, H. K., Rajput, M. S., Sahu, N. K. & Sahu, A. K. (2018). Performance modeling and benchmarking of green supply chain management: An integrated fuzzy approach. *Benchmarking: An International Journal*, Vol. 25, No. 7, pp. 2248-2271. **Impact factor 4.50**
10. Sahu A. K., Sahu, N. K., Sahu, A. K., Narang, H. K. & Rajput, M.S. (2018). Grey-based scorecard model for opting fruit supply bazaar locality under advanced chain of macro-micro parameter. *British Food Journal*, Vol. 120, No. 1, pp.59-79. **Impact factor 3.40**
11. Sahu A. K., Sahu, N. K. & Sahu, A. K. (2016), Application of Integrated TOPSIS in ASC index: Partners Benchmarking perspective. *Benchmarking: An International Journal*, Vol. 23, No 3, pp 1-26. **Impact factor 4.50**

12. Kottala, S.Y. and Sahu, A.K. (2024). Evaluating ergonomics and financial distress in manufacturing organization behavior: resiliency framework from operations and strategic management, *The Learning Organization*, Vol. 31 No. 5, pp. 765-788. <https://doi.org/10.1108/TLO-03-2023-0041>. **Impact factor 2.60**
13. Sahu, A.K., Kottala, S.Y., Narang, H.K. and Rajput, M.S. (2024). Intertwining green SCM- and agile SCM-based decision-making framework for sustainability using GIVTFNs, *Journal of Global Operations and Strategic Sourcing*, Vol. 17 No. 2, pp. 300-333. <https://doi.org/10.1108/JGOSS-06-2022-0060>. **Impact factor 3.80**
14. Sahu, A.K., M., P. and Rao, K.T.V. (2023). Post-COVID-19 strategic sourcing decisions for escorting stakeholders' expectations and supplier performance in construction project works, *Journal of Global Operations and Strategic Sourcing*, Vol. 16 No. 2, pp. 224-257. <https://doi.org/10.1108/JGOSS-02-2022-0011>. **Impact factor 3.80**
15. Ahmed, K. A., Sahu, A. K., Sahu, A. K., & Sahu, N. K. (2022). Quantify the Behaviour Intention of Individuals to Control SC Performance by Exploring Cloud Storage Services: An Extended UTAUT2 Approach. *International Journal of Technology and Human Interaction*, Vol. 18, No.7, pp. 1-28. <http://doi.org/10.4018/IJTHI.306227>. **Impact factor 0.90.**
16. Bag, S., Viktorovich, D.A., Sahu, A.K. and Sahu, A.K. (2021). Barriers to adoption of blockchain technology in green supply chain management. *Journal of Global Operations and Strategic Sourcing*, Vol. 14 No. 1, pp. 104-133. **Impact factor 3.80**
17. Sahu N. K., Sahu, A. K. & Sahu, A. K. (2018). Green supply chain management assessment under chains of uncertain indices: An intellectual approach. *Journal of Modelling in Management*, Vol. 13, No. 4, pp.973-993. **Impact factor 1.80**
18. Sahu, N.K., Singh, M.K., Sahu, A.K. et al. Employment of cylindrical electrolytic copper grade electrode under EDMed Inconel 825 super alloy: emphasis on machining behavior accompanied with surface topography for sustainability. *The International Journal of Advanced Manufacturing Technology*, 131, 2207–2233 (2024). <https://doi.org/10.1007/s00170-023-10967-4>. **Impact factor 2.90**
19. Li, N., Prabhu, M. & Sahu, A. K. (2022). Investigating economic replacement policy under uncertainty for managerial application based on grey-reliability approach using QCC. *Grey Systems: Theory and Application*, Vol. ahead-of-print. <https://doi.org/10.1108/GS-07-2022-0075>. **Impact factor 3.20**
20. Sahu, N. K, Singh, M. K, Sahu, A. K & Sahu, A. K (2022). Surface Topography And Optimal Machining Characteristics Investigation For Advanced Engineering Material Inconel 825 Alloy Exploring Statistical TGRA Accompanied With TTOPSIS, *World Scientific World, Surface Review and Letters*, Vol. 29, No. 11, pp. 2250149. **Impact factor-1.2**
21. .Kang, D., Prabhu, M., Ahmed, R.R., Zhang, Z. & Sahu, A.K. (2022). Digital-IIoTs spheres approach toward public development: an exploiting fuzzy-grey mathematical modeling of IIoTs spheres, *Grey Systems: Theory and Application*, Vol. 12 No. 2, pp. 389-416. <https://doi.org/10.1108/GS-08-2020-0102>. **Impact factor 3.20**
22. .Guo, X., Sahu, A. K., Sahu, N.K. and Sahu, A.K. (2022). A novel integrated computational TRIFMRG approach with grey relational analysis toward parametric evaluation of weld bead geometry of ms-grade: IS 2062, *Grey Systems: Theory and Application*, Vol. 12 No. 1, pp. 117-141. <https://doi.org/10.1108/GS-09-2020-0124>. **Impact factor 3.20**

23. He, Z., Ma, X., Luo, J., Sahu, A.K., Sahu, A.K. and Sahu, N.K. (2021). Exploitation of the advanced manufacturing machine tool evaluation model under objective-grey information: a knowledge-based cluster with the grey relational analysis approach, *Grey Systems: Theory and Application*, Vol. 11 No. 3, pp. 394-417. **Impact factor 3.20.**
24. Sahu A. K., Sahu, N. K. & Sahu, A. K. (2018). Knowledge based decision support system for appraisal of sustainable partner under fuzzy cum non-fuzzy information. *Kybernetes*, Vol. 47, No. 6, pp. 1090-1121. **Impact factor 2.40**
25. Sahu N. K., Sahu, A. K. & Sahu, A. K. (2018). Cluster approach integrating weighted geometric aggregation operator to appraise industrial robot: Knowledge based decision support system. *Kybernetes*, Vol. 47, No. 3, pp.487-524. **Impact factor 2.40**
26. Sahu, A. K., Sahu, N. K., & Sahu, A. K., Rajput, M. S., & Narang, H. K. (2019). T-SAW methodology for parametric evaluation of surface integrity aspects in AlMg3 (AA5754) alloy: Comparison with T-TOPSIS methodology. *Measurement*, Vol. 132, pp. 309-323. **Impact factor 5.20**
27. Sahu N. K., Sahu, A. K. & Sahu, A. K. (2017), Optimization of weld bead geometry of MS plate (Grade: IS 2062) in the context of welding: a comparative analysis of GRA and PCA–Taguchi approaches. *Indian Academy of Sciences (Sadhana)*, Vol 8, No. 3, pp.231–244. **Impact factor 1.21**
28. Wang, W., Huang, L., Zhu, Y., Jiang, L., Sahu, A.K., Sahu, A.K. & Sahu, N.K. (2019). Decision support system toward evaluation of resilient supplier: A novel fuzzy gain-loss computational approach. *Kybernetes*, <https://doi.org/10.1108/K-05-2019-0345>. **Impact factor 2.40**
29. Sahu A. K., Sahu, N. K. & Sahu, A.K (2014). Appraisal of CNC machine tool by integrated MULTI MOORA-IGVN circumstances: an empirical study. *Grey Systems: Theory and Application*, Vol. 4, No.1, pp 104-123. **Impact factor 3.20.**
30. Sahu A. K., Narang, H.K. & Rajput, M.S. (2018). A Grey-DEMATEL approach for implicating e-waste management practice: Modeling in context of Indian scenario. *Grey Systems: Theory and Application*, Vol. 8, No. 1, pp.84-99. **Impact factor 3.20.**
31. Sahu, A.K., Naval, D., Narang, H. K. & Rajput, M. S. (2018). A merged approach for modeling qualitative characteristics of agile arena under grey domain. *Grey Systems: Theory and Application*, Vol. 8, No. 3, pp. 328-357. **Impact factor 3.20.**
32. Sahu, A. K., Narang, H. K., Sahu, A. K. & Sahu, N. K. (2016). Machine economic life estimation based on depreciation-replacement model. *Cogent Engineering*, Vol. 3, No. 1, pp 1-15. **Impact factor 2.1.**
33. Sahu A. K., Sahu, N. K. & Sahu, A. K. (2015). Appraisal and benchmarking of third-party logistic service provider by exploration of risk-based approach. *Cogent Business & Management*, Vol. 2, No 1, pp 1-21. **Impact factor 3.0.**
34. Sahu A. K., Sahu, N. K. & Sahu, A. K.(2016). Appraisal of Partner Enterprises under GTFNS Environment in Agile SC. *International Journal of Decision Support System Technology*, Vol. 8, No. 3, pp. 1-19. **Impact factor 1.1.**
35. Sahu A. K., Sahu, N. K. & Sahu, A. K. (2020). A Review on the Research Growth of Industry 4.0: IIoT Business Architectures Benchmarking. *International Journal of Business Analytics*, Vol. 7, No. 1, pp.77-97. **Impact factor 1.1.**

36. Sahu, A. K., Sahu, N. K., Sahu, A. K., Rajput, M. S., & Narang, H. K. (2020). *An Investigation Tool for Mounting Sustainable Practice: Modeling Using GIVTFNs in an Indian Context*. *International Journal of Decision Support System Technology*, Vol. 12, No. 2, pp. 25-49. **Impact factor 1.1.**
37. Sahu, A. K., Sahu, N. K., & Sahu, A. K., Rajput, M. S., & Narang, H. K. (2021). *Modeling the predictive values of ultimate tensile strength in welded joint by response surface methodology*, *Materials Today: Proceedings*, Vol. 44 No. 2, pp. 3110-3114, <https://doi.org/10.1016/j.matpr.2021.02.798>.
38. Sahu, N. K., Singh, M.K., B.Getrude Mutono-Mwanza, Sahu, A.K. (2022). *Investigation of Machinability Characteristics of EDMed Inconel 825 Alloy under Multidimensional Parametric Modeling by Using Holistic Grey-PCA Statistical Models*, *Advances in Materials Science and Engineering*, Vol. 2022, pp. 1-29. **Impact factor 3.20**
39. Gautam, N, Sahu, N.K , Khanday G.S & Sahu A.K.(2015). *Analysis of Static and Dynamic loads on chimney foundation in modular design of cold rolling mill*. *International Journal of Dynamical Systems and Differential Equations*, Vol. 5, No 2, pp. 99-111.
40. Sahu A. K., Sahu, N. K. & Sahu A. K., (2016). *Application of modified MULTI-MOORA for CNC Machine Tool evaluation in IVGTFN environment : An empirical study*. *International Journal of Computer Aided Engineering and Technology*, Vol. 8, No 3, pp. 234-259.
41. Sahu, A. K., Narang, H. K., Rajput, M. S., & Sahu, N. K. (2019). *Sustainability Appraisalment of Industrial Robots by GRA for Real Automation Environment*. *International Journal of Social Ecology and Sustainable Development*, Vol. 10, No 3, pp. 53-68.
42. Sahu, A. K., Narang, H. K., Rajput, M. S., & Sahu, N. K. (2019). *A SAW Mechanism for Investigating the Status of Industrial Robots Under Comprehensive Sustainable Aspects*. *International Journal of Social Ecology and Sustainable Development*, Vol.10, No 3, pp. 69-84.
43. Sahu A. K., Narang, H.K. & Rajput, M.S. (2020). *A novel approach for benchmarking maintenance based on fuzzy reliability index for the replacement of street lights under uncertainty*. *International Journal of Process Management and Benchmarking*, Vol. 10, No. 2, pp.177-195.
44. Sahu A. K., Sahu, N. K. & Sahu, A. K. (2015). *Benchmarking CNC machine tool using hybrid fuzzy methodology a multi indices decision making approach*. *International Journal of fuzzy system application*, Vol. 4, No. 2, pp. 28-46.
45. Sahu, A.K., Katyayan, A., Khandey, U., Jangde, P., Sahu, A.K. and Sahu, N.K. (2023). *Adaptation of block chain technology in SCM for steering managerial strategies: investigative study under Indian context*, *Journal of International Logistics and Trade*, Vol. 21 No. 1, pp. 18-40. <https://doi.org/10.1108/JILT-06-2022-0020>.

Highly commended (Emerald literati awards-2019)

Title of manuscript: A Grey-DEMATEL approach for implicating e-waste management practice: Modeling in context of Indian scenario, Vol. 8, No. 1, pp.84-99

Journal- Grey System Theory and Applications

Publisher- Emerald

Best paper Award (Guru Ghasidas Vishwavidyalaya, Bilaspur-2019)

Title of manuscript: A T-SAW methodology for parametric evaluation of surface integrity aspects in AlMg3 (AA5754) alloy: Comparison with T-TOPSIS methodology, Vol. 132, No. 1, pp.309-323

Journal- Measurement

Publisher- (Elsevier)

Book Chapters (Scopus indexed):

1. Sahu A. K., Sahu, N. K. & Sahu, A. K. (2017). *Performance Estimation of Firms by GLA Supply Chain under Imperfect Data, Theoretical and Practical Advancements for Fuzzy System Integration, IGI Global Publisher, pp. 245-277.*
2. Sahu N. K., Sahu, A. K. & Sahu, A. K. (2017). *Fuzzy-AHP: A Boon in 3PL Decision Making Process, Theoretical and Practical Advancements for Fuzzy System Integration, IGI Global Publisher, pp. 97-125.*
3. Sahu A. K., Sahu, A. K. & Sahu, N. K. (2017). *Benchmarking of Advanced Manufacturing Machines Based on Fuzzy-TOPSIS Method, Theoretical and Practical Advancements for Fuzzy System Integration, IGI Global Publisher, pp. 309-350.*
4. Sahu A. K., Sahu, N. K. & Sahu, A. K. (2017). *Fuzziness: A Mathematical Tool, Theoretical and Practical Advancements for Fuzzy System Integration, IGI Global Publisher, pp. 1-30.*
5. Sahu A. K., Sahu, N. K. & Sahu, A. K. (2017). *Appraise the Economic Values of Logistic Handling System under Mixed Information, Theoretical and Practical Advancements for Fuzzy System Integration, IGI Global Publisher, pp. 278-308.*
6. Sahu A. K., Sahu, N. K. & Sahu, A. K. (2019). *Agile Supplier Assessment Using Generalized Interval-Valued Trapezoidal Fuzzy Numbers. Technological Innovations in Knowledge Management and Decision Support, IGI Global Publisher, pp. 67-97.*
7. Sahu, N.K., Singh, M. K., Sahu A.K., Sahu, A.K. (2022). *Multi Parametric Investigation for Improvement in Machining Characteristics on Aluminium Boron Carbide in WEDM, Springer Proceedings in Materials: Book Series.*
8. Nishad, S., Sahu, A.K. and Sahu, N.K. (2024). *Advocating Lean Practices and Strategies in Decision-Making for Reinforcing Industrial and Manufacturing Designs. In Industrial and Manufacturing Designs (eds A.K. Sahu, R.D. Raut, R. Raja, A.K. Sahu and N.K. Sahu). <https://doi.org/10.1002/9781394212668.ch3>. John Wiley & Sons, Inc.*
9. Sahu, N.K., Nishad, S.K., Sahu, A.K. and Sahu, A.K. (2024). *Demonstrating the Role of Qualitative and Quantitative Information in Industrial and Manufacturing Designs. In Industrial and Manufacturing Designs (eds A.K. Sahu, R.D. Raut, R. Raja, A.K. Sahu and N.K. Sahu). <https://doi.org/10.1002/9781394212668.ch1>. John Wiley & Sons, Inc*

Declaration:

I hereby declare that all the information mentioned above is fair to the best of my knowledge.

ATUL KUMAR SAHU