

ATUL KUMAR SAHU
(Assistant Professor)

Centre/School/Special Centre-

School of Studies in Engineering and Technology
(SOSE&T), Guru Ghasidas Vishwavidyalaya (Central
University), Bilaspur, chhattisgarh-495009

Department- Industrial & Production Engineering

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Personal Webpage Link-

<https://scholar.google.co.in/citations?user=v1UO05MAAAAJ&hl=en>

Qualifications-

1. Ph.D from National Institute of Technology (N.I.T), Raipur (Chhattisgarh).
2. Honours in Master of Technology (Mechanical / Production Engineering) from National Institute of Technology (N.I.T), Rourkela (Orissa).
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).

Area of Interest/Specialization-

Industrial Engineering, Soft Computing, Optimization, Supply Chain Management,
Manufacturing Management, Decision Making, Agile Management

Experience-

1. Presently discharging duties in School of Studies in Engineering and Technology, Guru Ghasidas Vishwavidyalaya (Central University), Bilaspur
Designation : Assistant Professor
Department : Industrial & Production Engineering
Period : From 21 July 2011 to till date
2. Employed in Institute of Technology, Guru Ghasidas University (Central University), Bilaspur
Designation : Assistant Professor
Department : Industrial & Production Engineering
Period : From 09 July 2010 to 16 June 2011 (Ad hoc)
3. Employed in Institute of Technology, Guru Ghasidas University (Central University), Bilaspur
Designation : Lecturer

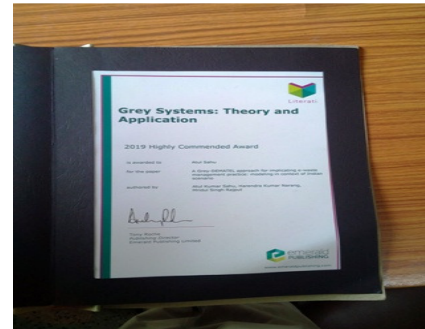
Department : Mechanical Engineering
Period : From 06 August 2009 to 30 June 2010 (Ad hoc)

Awards and Honors-

1. Highly commended paper (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



2. Qualified GATE Exam with All India Rank 214 in 2007.
3. Gold medalist in Bachelor of Engineering (Industrial & Production Engineering) from Institute of Technology.

Best Peer Reviewed Publication-

1. 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.
2. Sahu A. K., Sahu, N. K. & Sahu, A. K. (2018). Knowledge based decision support system for appraisalment of sustainable partner under fuzzy cum non-fuzzy information. *Kybernetes*, Vol. 47, No. 6, pp. 1090-1121.
3. 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.
4. 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.
5. 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.
6. Sahu A. K., Sahu, N. K., Sahu, A. K., Narang, H. K. & Rajput, M.S. (2020). Modeling the predictive values of ultimate tensile strength in welded joint by response surface methodology. *Materials Today: Proceedings*, Vol 44, pp.3110–3114.

7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
 21. 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.
 22. 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.
 23. Sahu A. K., Narang, H.K. & Rajput, M.S. (2018). 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.
 24. 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.
 25. Chaturvedi, P. K., Narang, H. K. & Sahu, A. K. (2018). Optimization of MRR and Surface Roughness of AlMg3 (AA5754) Alloy in CNC Lathe Machine by Using Taguchi Method. *Applied Mechanics and Materials*, Vol. 877, pp. 110-117, 2018.

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.

Administrative Responsibilities-

1. Worked as a Polling & Counting Officer in student council election of Guru Ghasidas Vishwavidyalaya.
2. Former Member of the Anti Ragging Committee of the Institute.
3. Former Member of the Discipline Committee of the Institute.
4. Worked as a Co-Coordinator of Tech-Fest (Equilibrio-2015, 2019).
5. Former Member of Board of Studies.
6. Coordinator (Swachchhata program, 2018) for School of Studies in Engineering and Technology.
7. Coordinator B.Tech First year for SOSE&T session 2020-21 and 2021-22
8. Departmental NAAC coordinator, 2018-19, 2019-20.
9. Organized AICTE student Induction program of three week duration from 9/12/2020-23/12/2020.
10. Organized AICTE student Induction program of one week duration from 20/12/2021-24/12/2021.
11. Recognized Ph.D supervisor at Guru Ghasidas Vishwavidyalaya.
12. Observer for conducting VET exam of Guru Ghasidas Vishwavidyalaya at Jagdalpur centre

Additional Information- 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