

KAPIL KUMAR NAGWANSHI



Centre/School/Special Centre: SoS Engineering & Technology

Department: Computer Science and Engineering

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Personal Webpage Link:

Qualification:

- Ph.D. Computer Science and Engineering -CSVTU Bhilai
- M.Tech Computer Science and Engineering -CSVTU Bhilai
- B.E (Hon's) Computer Science and Engineering-GGV Bilaspur

Area of Interest/Specialization:

- Image Processing, Computer Vision, Medical Imaging.
- Artificial Intelligence, Machine Learning, Deep Learning, Pharmaceutical Drug Analysis, and Related fields.
- IoT and Software Defined Networks

Experience: 17 Years

- University of Stirling -RAK-UAE (QS471)
- Amity University Rajasthan-Jaipur India
- SVKM's Narsee Monjee Institute of Management Studies(NMIMS) Mumbai, India
- RCET-Bhilai, India
- NIT-Raipur, India

Awards and Honors:

- Academic Editor of PLOS ONE-SCI Indexed Journal IF-3.24.
- Best Presentation Award 2021, "Topological Data Analysis - A Novel and Effective Approach for Feature Extraction" for the Category "Emerging Technologies", ICIVC 2021: SUR University College, OMAN Technically Sponsored by Soft Computing Research Society October 03-04, 2021.
- IEEE Best Blog Award of the year 2010 Professional, for 'India Keep Researching with IEEE', R10 (Asia-Pacific).

Peer Reviewed Publication (SCI/E , WoS, Scopus Indexed)

- Nagwanshi, K. K. (2019). Cyber-forensic review of human footprint and gait for personal identification. *IAENG International Journal of Computer Science*, 46(4), 1-17. Retrieved from www.scopus.com
- Nagwanshi, K. K., & Dubey, S. (2020). Estimation of centroid, ensembles, anomaly and association for the uniqueness of human footprint features. In *International Journal of Intelligent Engineering Informatics* (Vol. 8, Issue 2, p. 117). Inderscience Publishers. <https://doi.org/10.1504/ijiei.2020.109096>.
- Nagwanshi, K., Gupta, A. K., Goswami, T., Pathak, S., & Khan, M. H. M. (2023). Human Footprint Biometrics for Personal Identification using Artificial Neural Networks. In *International Journal of Biometrics* (Online). Inderscience Publishers. <https://doi.org/10.1504/ijbm.2023.10043092>
- Nagwanshi, K. K. (2020). File chunking approaches. *Data deduplication approaches: Concepts, strategies, and challenges* (pp. 97-109) doi:10.1016/B978-0-12-823395-5.00014-8 Retrieved from www.scopus.com

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- Nagwanshi, K. K., & Dubey, S. (2018). Statistical feature analysis of human footprint for personal identification using BigML and IBM watson analytics. *Arabian Journal for Science and Engineering*, 43(6), 2703-2712. doi:10.1007/s13369-017-2711-z
- Nagwanshi, K. K., Kumar, M., & Dubey, S. (2013). Development of fuzzified emotional mobile (FEM): Thought recognition through EMO vTF mobile. Paper presented at the *Proceedings - 2013 IEEE International Multi Conference on Automation, Computing, Control, Communication and Compressed Sensing, iMac4s 2013*, 35-39. doi:10.1109/iMac4s.2013.6526380 Retrieved from www.scopus.com
- Nagwanshi, K. K., Kumar, M., & Dubey, S. P. (2016). Novel framework for efficient data transfer (EDT). Paper presented at the *Physics Procedia*, , 78 153-159. doi:10.1016/j.procs.2016.02.025 Retrieved from www.scopus.com
- Nagwanshi, K. K., Kumar, M., & Dubey, S. P. (2016). Novel framework for efficient data transfer (EDT). Paper presented at the *Procedia Computer Science*, , 78 153-159. doi:10.1016/j.procs.2016.02.025 Retrieved from www.scopus.com
- Nagwanshi, K. K., Nooniah, A., Tiwari, S., Doohan, N. V., Kumawat, V., Ahanger, T. A., & Amoatey, E. T. (2022). Wearable sensors with internet of things (IoT) and vocabulary-based acoustic signal processing for monitoring children's health. *Computational Intelligence and Neuroscience*, 2022 doi:10.1155/2022/9737511
- Paliwal, M., & Nagwanshi, K. K. (2022). Effective flow table space management using policy-based routing approach in hybrid SDN network. *IEEE Access*, 10, 59806-59820. doi:10.1109/ACCESS.2022.3180333
- Ansari, S., & Nagwanshi, K. K. (2022). An empirical study of soft computing approaches in wireless sensor networks. *Journal of Cases on Information Technology*, 24(4) doi:10.4018/JCIT.296722
- Baghel, N., Verma, U., & Nagwanshi, K. K. (2022). WBCs-net: Type identification of white blood cells using convolutional neural network. *Multimedia Tools and Applications*, 81(29), 42131-42147. doi:10.1007/s11042-021-11449-z
- Basheer, S., Nagwanshi, K. K., Bhatia, S., Dubey, S., & Sinha, G. R. (2021). FESD: An approach for biometric human footprint matching using fuzzy ensemble learning. *IEEE Access*, 9, 26641-26663. doi:10.1109/ACCESS.2021.3057931
- Bharti, S., Dubey, S. P., Nagwanshi, K. K., Turkey, R. A., Bansal, R. C., & Choubey, B. D. (2022). Analysis of electromagnetic environment in 1200 kV single circuit UHVAC transmission line by using FACE software and semi-empirical formulae. *Ain Shams Engineering Journal*, 13(3) doi:10.1016/j.asej.2021.11.011
- Dhanare, R., Nagwanshi, K. K., & Varma, S. (2022). A study to enhance the route optimization algorithm for the internet of vehicle. *Wireless Communications and Mobile Computing*, 2022 doi:10.1155/2022/1453187
- Dhanare, R., Nagwanshi, K. K., & Varma, S. (2022). Enhancing the route optimization using hybrid MAF optimization algorithm for the internet of vehicle. *Wireless Personal Communications*, 125(2), 1715-1735. doi:10.1007/s11277-022-09629-7
- Dhanare, R., Nagwanshi, K. K., Varma, S., & Pathak, S. (2021). The future of internet of vehicle : Challenges and applications. Paper presented at the *2021 International Conference on Computational Performance Evaluation, ComPE 2021*, 23-26. doi:10.1109/ComPE53109.2021.9751802 Retrieved from www.scopus.com
- Dubey, S. P., & Nagwanshi, K. K. (2019). Real-time particle swarm optimization based parallel hybrid active power filter under variable load conditions. Paper presented at the *10th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2019*, 9-16. Retrieved from www.scopus.com
- Heenaye-Mamode Khan, M., Gooda Sahib-Kaudeer, N., Dayalen, M., Mahomedaly, F., Sinha, G. R., Nagwanshi, K. K., & Taylor, A. (2022). Multi-class skin problem classification using deep generative adversarial network (DGAN). *Computational Intelligence and Neuroscience*, 2022 doi:10.1155/2022/1797471
- Khan, M. H. -, Boodoo-Jahangeer, N., Dullull, W., Nathire, S., Gao, X., Sinha, G. R., & Nagwanshi, K. K. (2021). Multi-class classification of breast cancer abnormalities using deep convolutional neural network (CNN). *PLoS ONE*, 16(8 August 2021) doi:10.1371/journal.pone.0256500
- Landge, P. B., Bhise, D. V., Nagwanshi, K. K., Patra, R. K., & Durugkar, S. R. (2022). A selection-based framework for building and validating regression model for COVID-19 information managementdoi:10.1007/978-981-16-9669-5_56 Retrieved from www.scopus.com
- Mishra, S. R., Mathur, P., Gupta, A. K., Baag, S., Nagwanshi, K. K., Tailor, S., & Verma, A. (2021). Statistical analysis on the COVID-19 infection spread in united state of america: A prophet forecasting model. Paper presented at the *Proceedings of the IEEE International Conference Image Information Processing*, , 2021-November 523-528. doi:10.1109/ICIIP53038.2021.9702595 Retrieved from www.scopus.com
- Rao, A. K., Nagwanshi, K. K., & Pathak, S. (2022). Empirical study on energy-efficient IoT-based WSN routing protocols for smart agriculture system doi:10.1007/978-981-19-0619-0_23 Retrieved from www.scopus.com
- Satpathy, S. K., Panda, S., Nagwanshi, K. K., & Ardil, C. (2010). Image restoration in non-linear filtering domain using MDB approach. *World Academy of Science, Engineering and Technology*, 37, 761-765. Retrieved from www.scopus.com

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- Satpathy, S. K., Panda, S., Nagwanshi, K. K., Nayak, S. K., & Ardil, C. (2010). Adaptive non-linear filtering technique for image restoration. *World Academy of Science, Engineering and Technology*, 68, 352-359. Retrieved from www.scopus.com
- Sharma, V. S., Nagwanshi, K. K., & Sinha, G. R. (2022). Classification of defects in photonic bandgap crystal using machine learning under microsoft AzureML environment. *Multimedia Tools and Applications*, 81(15), 21887-21902. doi:10.1007/s11042-022-11899-z
- Shrivastava, P., Satpathy, S. K., & Nagwanshi, K. K. (2010). Development of an expert system as spiritual guru. Paper presented at the *ICMLC 2010 - the 2nd International Conference on Machine Learning and Computing*, 166-168. doi:10.1109/ICMLC.2010.20 Retrieved from www.scopus.com
- Verma, U., Sohani, M., Borah, S., Nagwanshi, K. K., & Pathak, S. (2022). *Role of Fog-assisted internet of Things-enabled system for Managing the Impact of COVID-19* doi:10.1007/978-981-16-5685-9_39 Retrieved from www.scopus.com

Recent Books/Book Chapters/Monographs etc.:

- Mahmood, M. R., Raja, R., Kaur, H., Kumar, S., & Nagwanshi, K. K. (Eds.). (2022). *Ambient Intelligence and Internet Of Things: Convergent Technologies*. John Wiley & Sons.
- Rohit Raja, Nagwanshi, Kapil Kumar, Sandeep Kumar, K. Ramya Laxmi, *Data Mining Technologies using Machine Learning Algorithms*, Wiley- Scrivener Publishing, 29-01-2022, 9781119792529 |DOI:10.1002/9781119792529.
- Nagwanshi, Kapil Kumar, Mithilesh Atulkar, Santosh R Durugkar, *Learn Python by Experiments*, Mar 2021, ISBN 978-93-90519-81-1.
- Nagwanshi, Kapil Kumar. "Learning classifier system." *Modern Optimization Methods for Science, Engineering, and Technology*. IOP, UK, 2019. 8.1-8.30. WEB OF SCIENCE
- Nagwanshi, Kapil Kumar. " File chunking approaches." *Data Deduplication Approaches: Concepts, Strategies, and Challenges*. Elsevier, UK, 2021. 97-109.
- Durugkar, S.R., Raja, R., Nagwanshi, K.K.* and Kumar, S. (2022). Introduction to Data Mining. In *Data Mining and Machine Learning Applications* (eds R. Raja, K.K. Nagwanshi, S. Kumar and K.R. Laxmi). <https://doi.org/10.1002/9781119792529.ch1>.
- Durugkar, S.R., Raja, R., Nagwanshi, K.K.* and Chandrakar, R. (2022). Conclusion and Future Direction in Data Mining and Machine Learning. In *Data Mining and Machine Learning Applications* (eds R. Raja, K.K. Nagwanshi, S. Kumar and K.R. Laxmi). <https://doi.org/10.1002/9781119792529.ch17>.

Research Supervision:

PhD Completed: 01

PhD Ongoing: 02

Administrative Responsibilities:

- Member, NIRF 2023, GGV Bilaspur
- Member, QS Ranking, GGV Bilaspur
- Member, Samarth Cell in GGV Bilaspur
- Convener, Verification Committee (JOSAA-CSAB-2022), SoS(E&T), GGV Bilaspur.
- Departmental, Coordinator, NAAC
- Departmental Placement In-Charge, CSE Department SoS(E&T), GGV Bilaspur.
- Advanced Programming Lab In-Charge, CSE Department SoS(E&T), GGV Bilaspur

Additional Information:

International /National Patent Granted: -

TITLE OF PATENT	#PATENT ID	AUTHORITY
1. Child Safety Handband	337766-001	IP INDIA
2. Iot Based Covid Detection System and Method Thereof	2021101720	IP AUSTRALIA
3. A System and A Method for Automated Irrigation Using the Internet Of Things	2020104385	IP AUSTRALIA
4. Home Automation Based on The Internet of Things and User Detection	2021106649	IP AUSTRALIA
5. Flowerpot (Iot). Effective Date of Patent	316581-001	IP INDIA
6. Stress And Emotions Detecting Cap	340329-001	IP INDIA

KAPIL KUMAR NAGWANSHI

Membership

- Senior Member IEEE (#91121526)
- Life Member of CSI (#01082876)
- Life Member IETE (#237759)
- Member International Association of Engineers, IAENG, UK (#105563)

