

RESUME

Dr. Prabhishek Singh (IEEE Senior Member)

Assistant Professor and Research Cluster Head,
School of Computer Science Engineering and Technology,
Bennett University (The Times Group),
Plot Nos 8-11, TechZone 2, Greater Noida,
Uttar Pradesh – 201310, India



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Scopus Profile: <https://www.scopus.com/authid/detail.uri?authorId=57192421370>

Google Scholar Profile: https://scholar.google.co.in/citations?user=_e7vt1oAAAAJ&hl=en

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EDUCATIONAL PROFILE

Doctorate in Philosophy (Awarded – 2018) (FULL TIME)

Department of Information Technology,
SIST, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow, India.

Grade: A+ in Ph.D. coursework

SGPA: 8.75 in Ph.D. coursework

Research Title: “TO DESIGN A FRAMEWORK FOR REDUCTION OF SPECKLE NOISE IN SYNTHETIC APERTURE RADAR IMAGES”

Supervisor: Dr. Raj Shree, Associate Professor.

Master of Technology (Passed – 2013) (FULL TIME)

Specialization in Computer Science and Engineering
CDAC Noida affiliated to Guru Gobind Singh Indraprastha University, New Delhi.

Division: First with Distinction

CPI: 77.28

Research Title: “ANALYSIS OF TWO DIGITAL IMAGE WATERMARKING TECHNIQUES IN SPATIAL DOMAIN”

Supervisor: Ramneet Singh Chadha, Joint Director.

Bachelor of Technology (Passed–2010)

Specialization in Computer Science and Engineering
Dr. AITH Awadpuri, UP affiliated to G.B.T.U, Lucknow

Division: First

Percentage: 70.38

Intermediate(Mathematics) (Passed–2005)

Dr. VSEC Awadpuri, Kanpur, UP, UP Board

Division: First

Percentage: 73.2%

High school (Science) (Passed–2003)

Dr. VSEC Awadpuri, Kanpur, UP, UP Board

Division: First

Percentage: 60%

PROFESSIONAL EXPERIENCE (TOTAL EXPERIENCE: 8 YEARS+)

Name of Employer	Designation	Nature of Work	From	To	Total Duration
<u>Bennett University (The Times Group), Greater Noida</u>	<u>Assistant Professor and Research Cluster Head</u>	<u>Teaching and Research</u>	<u>18 July 2022</u>	<u>Till now</u>	<u>1 Year +</u>
Amity University Uttar Pradesh, Noida Campus	Assistant Professor-II	Teaching and Research	12 February 2019	11 July 2022	3 Years 5 Months
Krishna Engineering College, Ghaziabad, Affiliated to AKTU	Assistant Professor	Teaching and Research	01 August 2018	31 January 2019	6 Months
Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow, India	Research Fellow	Research	April 2018	July 2018	4 Months
Naraina College of Engg. & Technology, Kanpur, Affiliated to AKTU	Assistant Professor	Teaching and Research	01 August 2013	31 May 2015	1 Year 10 Months
Swasthya Kalyan Polytechnic College, Jaipur	Lecturer	Teaching	11 August 2010	22 July 2011	1 Year

EDITORIAL BOARD MEMBER

- **Managing Editor** in Biomedical and Pharmacology Journal (BPJ). (Scopus, Cite Score: 1.5). <https://biomedpharmajournal.org/editorial-board/>
- **Academic Editor** in PLOS One, a peer-reviewed journal (Impact Factor: 3.752, SCIE and Scopus indexed). <https://journals.plos.org/plosone/static/editorial-board>
- **Editorial Board Member** in BMC Medical Imaging. (SCIE and SCOPUS, Impact Factor: 2.795). <https://bmcmimedimaging.biomedcentral.com/about/editorial-board>
- **Editorial Board Member** in SN Applied Sciences, Springer. (ESCI, SCOPUS). <https://www.springer.com/journal/42452/editors>
- **Editorial Board Member** in Frontiers in Medicine under a specialty section of Nuclear Medicine. (SCIE & SCOPUS, Impact Factor: 5.058). <https://loop.frontiersin.org/people/2022082/overview>
- **Senior Editor** in Journal of Computers, Mechanical and Management (JCMM). <https://jcmm.co.in/index.php/jcmm/about/editorialTeam>
- **Academic Editor** in Computational and Mathematical Methods in Medicine, Hindawi. (SCOPUS). <https://www.hindawi.com/journals/cmmm/editors/>
- Served as **Associate Editor [2022–2023]** for 1 year in Optical Engineering – SPIE Digital Library (SCIE and SCOPUS)
- Served as **Associate Editor [2022–2023]** for 1 year in Journal of Electronic Imaging – SPIE Digital Library (SCIE and SCOPUS)
- **Guest Editor**, Special Issue on “Fast and high-resolution medical imaging”, in the BMC Medical Imaging journal (Scopus & SCIE, Impact Factor: 2.795) (Ongoing Special Issue) – [Access Link](#)
- **Leading Guest Editor**, Special Issue on " Artificial Intelligence-Assisted Medical Imaging Solutions for Integrating Pathology and Radiology Automated Systems" in Frontiers in Medicine (SCIE & Scopus indexed) (Ongoing Special Issue) – [Access Link](#)
- **Guest Editor**, Special Issue on "AI Enabled Medical Data Analysis and Processing in Internet of Medical Things (IoMT)" in Bioengineering, MDPI Publisher (SCIE & Scopus indexed) – SUBMISSION CLOSED – [Access Link](#)

- **Guest Editor** in International Journal of Grid and Utility Computing, Inderscience. Special Issue on: "AI-Enabled Data Analysis in Emerging of Internet of Things Based Applications". (**Scopus & ESCI Indexed**) – **SUBMISSION CLOSED** – [Access Link](#)
- **Guest Editor** in Current Medical Imaging, Bentham Science Publishers. Special Issue Title: Recent Advancement in Medical Imaging with Deep Learning for Health Care Applications. (**SCIE & Scopus Indexed**) – **SUBMISSION CLOSED** – [Access Link](#)
- **Leading Guest Editor**, Special Issue on "Medical Image Analysis and Health Informatics" in Recent Advances in Computer Science and Communications, Bentham Science Publishers. (**Scopus indexed**) – **SUBMISSION CLOSED** – [Access Link](#)
- **Leading Guest Editor**, Special Issue on "Recent Advancement in Medical Imaging with Deep Learning for Health Care Applications" in Recent Advances in Computer Science and Communications, Bentham Science Publishers. (**Scopus indexed**) – **SUBMISSION CLOSED** – [Access Link](#)
- **Guest Editor**, Special Issue on "Advanced Computational Intelligence System for Secure Medical Imaging Applications" in Computational and Mathematical Methods in Medicine, Hindawi. (**SCIE & Scopus indexed**) – **SUBMISSION CLOSED** – [Access Link](#)
- **Guest Editor** in Journal of Electronic Imaging, co-published by IS&T and SPIE. Special Issue Title: Synthetic Aperture Radar (SAR) Imaging Technology in Deep Learning: New Trends and Viewpoints Offered on Simulation, Modelling, and Processing. (**SCIE & Scopus Indexed**) – **SUBMISSION CLOSED** – [Access Link](#)
- **Guest Editor** in International Journal of Reliable and Quality E-Healthcare (IJRQEH), IGI Global. Special Issue Title: Recent Advances in Medical Image Analysis using Machine Learning and Deep Learning for Health Care Applications. (Scopus Indexed) – **SUBMISSION CLOSED**

EDITORIALS

- Manoj Diwakar, **Prabhishek Singh**, and Vinayakumar Ravi. 2023. "Medical Data Analysis Meets Artificial Intelligence (AI) and Internet of Medical Things (IoMT)" Bioengineering, MDPI 10, no. 12: 1370. <https://doi.org/10.3390/bioengineering10121370> (**SCIE & Scopus Indexed**)
- Achyut Shankar, Li Zhang, Yu-Chen Hu, **Prabhishek Singh**, "Special Section Guest Editorial: Synthetic Aperture Radar Imaging Technology in Deep Learning: New Trends and Viewpoints," J. Electron. Imag. 32(2) 021601 (29 December 2022) <https://doi.org/10.1117/1.JEI.32.2.021601> (**SCIE & Scopus Indexed**)
- Mohan, N. S., Adriana, B. Şchiopoiu, **Prabhishek Singh**, & Mathad, S. N. (2023). Editorial Comment: JCMM Volume 2 Issue 1. Journal of Computers, Mechanical and Management, 2(1), i-ii. <https://jcmm.co.in/index.php/jcmm/article/view/55> (**Peer Reviewed and Unpaid**)

RESEARCH PROJECTS

- **Currently going on SEED GRANT PROJECT** "Enhancing Building Safety Assessment near Tunnels using Machine Learning and XAI" of amount **Rs. 4,50,000/-**

ACHIEVEMENTS

1. **Excellent Researcher Award** by "Global Education and Corporate Leadership (GECL-2022) Awards, 5th International Annual Awards summit" for your outstanding performance, commitment, dedication and demonstrated significant leadership in said area on **18/11/2022**.
2. **Best Young Scientist Award** by "Global Education and Corporate Leadership (GECL-2021) Awards, 4th International Annual Awards summit" for your outstanding performance, commitment, dedication and demonstrated significant leadership in said area on **9/12/2021**.
3. Awarded with **National Fellowship** for the year 2017-18 during Ph.D.
4. **GATE** qualified in 2011.

PUBLICATIONS

INTERNATIONAL JOURNALS (SCI/ SCIE) – PUBLISHED/ACCEPTED

1. Manoj Diwakar, **Prabhishek Singh**, Deepak Garg, "Edge-guided filtering based CT image denoising using fractional order total variation", Biomedical Signal Processing and Control, Volume 92, June **2024**, 106072. – **IF:**

5.1 (Q1) – [Article Access Link](#)

2. Kaustubh Saurabh Singh, Manoj Diwakar, **Prabhishek Singh**, Deepak Garg, Inertial sensor aided motion blur kernel estimation for cooled IR detector, Optics and Lasers in Engineering, Volume 175, 2024, 108014, – IF: 4.6 (Q1) – [Article Access Link](#)
3. **Prabhishek Singh**, Manoj Diwakar, Debjani Ghosh, Ankit Vidyarthi, Deepak Gupta & Punit Gupta (2023) An Algorithmic Approach towards Remote Sensing Imagery Data Restoration Using Guided Filters in Real-Time Applications, Canadian Journal of Remote Sensing, 49:1, DOI: 10.1080/07038992.2023.2257323 – IF: 2.6 (Q2) – [Article Access Link](#)
4. **Prabhishek Singh**, Manoj Diwakar, Vijendra Singh, Seifedine Kadry, and Jungeun Kim. "A new local structural similarity fusion-based thresholding method for homomorphic ultrasound image despeckling in NSCT domain." Journal of King Saud University-Computer and Information Sciences (2023): 101607. – IF: 6.9 (Q1) – [Article Access Link](#)
5. **Prabhishek Singh**, and Manoj Diwakar. "Total variation-based ultrasound image despeckling using method noise thresholding in non-subsampled contourlet transform." International Journal of Imaging Systems and Technology, Wiley, 2023. – IF: 3.3 (Q2) – [Article Access Link](#)
6. **Prabhishek Singh**, Achyut Shankar, Manoj Diwakar, "Review on nontraditional perspectives of SAR image despeckling," J. Electron. Imaging 32(2), 021609 (2023), doi: 10.1117/1.JEI.32.2.021609 – IF: 1.1 (Q3) – [Article Access Link](#)
7. Tarun Agrawal, Prakash Choudhary, Achyut Shankar, **Prabhishek Singh**, Manoj Diwakar, "MultiFeNet: Multi-scale feature scaling in deep neural network for the brain tumor classification in MRI images", International Journal of Imaging Systems and Technology, Wiley, 2023 – IF: 3.3 (Q2) – [Article Access Link](#)
8. Manoj Diwakar, Pardeep Kumar, **Prabhishek Singh**, Amrendra Tripathi, and Laxman Singh. "An efficient reversible data hiding using SVD over a novel weighted iterative anisotropic total variation based denoised medical images." Biomedical Signal Processing and Control 82 (2023): 104563. – IF: 5.1 (Q1) – [Article Access Link](#)
9. Prabhjot Kaur; Mukund Pratap Singh; Anand Muni Mishra; Achyut Shankar; **Prabhishek Singh**; Manoj Diwakar; And Soumya Ranjan Nayak (2023) "DELM: Deep Ensemble Learning Model for Multiclass Classification of Super-Resolution Leaf Disease Images," Turkish Journal of Agriculture and Forestry: Vol. 47: No. 5, Article 12. – IF: 2.9 (Q2) – [Article Access Link](#)
10. Sanjay Roka, Manoj Diwakar, **Prabhishek Singh**, Pragya Singh, Anomaly behavior detection analysis in video surveillance: a critical review, J. Electron. Imaging 32(4), 042106 (2023), doi: 10.1117/1.JEI.32.4.042106. – IF: 1.1 (Q3) – [Article Access Link](#)
11. Sanjeev Kumar, Mukund Pratap Singh, Soumya Ranjan Nayak, Asif Uddin Khan, Anuj Kumar Jain, **Prabhishek Singh**, Manoj Diwakar & Thota Soujanya, "A new efficient referential genome compression technique for FastQ files". published in Functional & Integrative Genomics, Springer Journal, 23, 333 (2023) – IF: 2.9 (Q2) – [Article Access Link](#)
12. Yogesh Shahare, Mukund Partap Singh, **Prabhishek Singh**, Manoj Diwakar, Vijendra Singh, Seifedine Kadry, and Lukas Sevcik. 2023. "A Comprehensive Analysis of Machine Learning-Based Assessment and Prediction of Soil Enzyme Activity" Agriculture 13, no. 7: 1323. – IF: 3.6 (Q2) – [Article Access Link](#)
13. Sujit Kumar Das, Pinki Roy, **Prabhishek Singh**, Manoj Diwakar, Vijendra Singh, Ankur Maurya, Sandeep Kumar, Seifedine Kadry, and Jungeun Kim. 2023. "Diabetic Foot Ulcer Identification: A Review" Diagnostics 13, no. 12: 1998. – IF: 3.6 (Q2) – [Article Access Link](#)
14. Manoj Diwakar, **Prabhishek Singh**, Vinayakumar Ravi, and Ankur Maurya. 2023. "A Non-Conventional Review on Multi-Modality-Based Medical Image Fusion" Diagnostics, MDPI 13, no. 5: 820. – IF: 3.6 (Q2) – [Article Access Link](#)
15. Chandrakala Arya, Manoj Diwakar, **Prabhishek Singh**, Vijendra Singh, Seifedine Kadry, and Jungeun Kim. 2023. "Multi-Document News Web Page Summarization Using Content Extraction and Lexical Chain Based Key Phrase Extraction" Mathematics, MDPI, 11, no. 8: 1762. – IF: 2.4 (Q2) – [Article Access Link](#)
16. Sonali Sharma, Manoj Diwakar, **Prabhishek Singh**, Vijendra Singh, Seifedine Kadry, and Jungeun Kim. 2023. "Machine Translation Systems Based on Classical-Statistical-Deep-Learning Approaches" Electronics 12, no. 7: 1716. – IF: 2.9 (Q2) – [Article Access Link](#)

17. Manoj Diwakar, **Prabhishek Singh**, Ravinder Singh, Dilip Sisodia, Vijendra Singh, Ankur Maurya, Seifedine Kadry, and Lukas Sevcik. 2023. "Multimodality Medical Image Fusion Using Clustered Dictionary Learning in Non-Subsampled Shearlet Transform" *Diagnostics* 13, no. 8: 1395. – IF: 3.6 (Q2) – [Article Access Link](#)
18. **Prabhishek Singh**, Achyut Shankar, Manoj Diwakar, and Mohammad R. Khosravi. "MSPB: intelligent SAR despeckling using wavelet thresholding and bilateral filter for big visual radar data restoration and provisioning quality of experience in real-time remote sensing." *Environment, Development and Sustainability* (2022): 1–31. – IF: 4.9 (Q1) – [Article Access Link](#)
19. **Prabhishek Singh**, Manoj Diwakar, Shilpi Singh, Sarvesh Kumar, Amrendra Tripathi, and Achyut Shankar. "A homomorphic non-subsampled contourlet transform based ultrasound image despeckling by novel thresholding function and self-organizing map." *Biocybernetics and Biomedical Engineering* (2022). – IF: 6.4 (Q1) – [Article Access Link](#)
20. **Prabhishek Singh**, Manoj Diwakar, Reena Gupta, Sarvesh Kumar, Alakananda Chakraborty, Eshan Bajal, Muskan Jindal, Dasharathraj K. Shetty, Jayant Sharma, Harshit Dayal, Nithesh Naik, and Rahul Paul. 2022. "A Method Noise-Based Convolutional Neural Network Technique for CT Image Denoising" *Electronics* 11, no. 21: 3535. <https://doi.org/10.3390/electronics11213535> – IF: 2.9 (Q2) – [Article Access Link](#)
21. Manoj Diwakar, Achyut Shankar, Chinmay Chakraborty, **Prabhishek Singh***, and G. Arunkumar. "Multi-modal medical image fusion in NSST domain for internet of medical things." *Multimedia Tools and Applications* (2022): 1–21. – IF: 3.6 (Q1) – [Article Access Link](#)
22. Manoj Diwakar, Neeraj Kumar Pandey, Ravinder Singh, Dilip Sisodia, Chandrakala Arya, **Prabhishek Singh***, and Chinmay Chakraborty. "Low-Dose COVID-19 CT Image Denoising Using CNN and its Method Noise Thresholding." *Current Medical Imaging*, 2022 Apr. PMID: 35379137. – IF: 1.4 (Q3) – [Article Access Link](#)
23. Santosh Thakur, Ramesh Dharavath, Achyut Shankar, **Prabhishek Singh**, Manoj Diwakar, and Mohammad R. Khosravi. "RST-DE: Rough Sets-Based New Differential Evolution Algorithm for Scalable Big Data Feature Selection in Distributed Computing Platforms." *Big Data* (2022). – IF: 4.6 (Q2) – [Article Access Link](#)
24. Neha Sharma, Sheifali Gupta, Puneet Mehta, Xiaochun Cheng, Achyut Shankar, **Prabhishek Singh**, Soumya Ranjan Nayak, "Offline signature verification using deep neural network with application to computer vision," *J. Electron. Imaging* 31(4), 041210 (2022) – IF: 1.1 (Q3) – [Article Access Link](#)
25. Neeraj Kumar Pandey, Manoj Diwakar, Achyut Shankar, **Prabhishek Singh**, Mohammad R. Khosravi, Vivek Kumar, "Energy Efficiency Strategy for Big Data in Cloud Environment Using Deep Reinforcement Learning", *Mobile Information Systems*, vol. 2022, Article ID 8716132, 11 pages, 2022. – IF: 2.125 (Q3) – [Article Access Link](#)
26. Manoj Diwakar, **Prabhishek Singh**, Chetan Swarup, Eshan Bajal, Muskan Jindal, Vinayakumar Ravi, Kamred Udham Singh, and Teekam Singh. 2022. "Noise Suppression and Edge Preservation for Low-Dose COVID-19 CT Images Using NLM and Method Noise Thresholding in Shearlet Domain" *Diagnostics* 12, no. 11: 2766. – IF: 3.6 (Q2) – [Article Access Link](#)
27. Manoj Diwakar, **Prabhishek Singh**, Girija Rani Karetla, Preeti Narooka, Arvind Yadav, Rajesh Kumar Maurya, Reena Gupta, José Luis Arias-González, Mukund Pratap Singh, Dasharathraj K. Shetty, Rahul Paul, and Nithesh Naik. 2022. "Low-Dose COVID-19 CT Image Denoising Using Batch Normalization and Convolution Neural Network" *Electronics*, MDPI, 11, no. 20: 3375 – IF: 2.9 (Q2) – [Article Access Link](#)
28. **Prabhishek Singh**, Manoj Diwakar, Achyut Shankar, Raj Shree, and Manoj Kumar. "A Review on SAR Image and its Despeckling." *Archives of Computational Methods in Engineering* (2021): 1–21. – IF: 9.7 (Q1) – [Article Access Link](#)
29. **Prabhishek Singh**, and Achyut Shankar. "A novel optical image denoising technique using convolutional neural network and anisotropic diffusion for real-time surveillance applications." *Journal of Real-Time Image Processing* (2021): 1–18. – IF: 3.0 (Q2) – [Article Access Link](#)
30. **Prabhishek Singh**, Manoj Diwakar, Xiaochun Cheng, and Achyut Shankar. "A new wavelet-based multi-focus image fusion technique using method noise and anisotropic diffusion for real-time surveillance application." *Journal of Real-Time Image Processing* (2021): 1–18. – IF: 3.0 (Q2) – [Article Access Link](#)
31. Manoj Diwakar, **Prabhishek Singh***, and Achyut Shankar. "Multi-modal medical image fusion framework using co-occurrence filter and local extrema in NSST domain." *Biomedical Signal Processing and Control* 68 (2021): 102788. – IF: 5.1 (Q1) – [Article Access Link](#)

32. Alakananda Chakraborty, Muskan Jindal, Mohammad R. Khosravi, **Prabhishek Singh***, Achyut Shankar, and Manoj Diwakar. "A Secure IoT-Based Cloud Platform Selection Using Entropy Distance Approach and Fuzzy Set Theory." *Wireless Communications and Mobile Computing* 2021 (2021). – IF: 1.536 (Q2) – [Article Access Link](#)
33. **Prabhishek Singh**, Raj Shree, and Manoj Diwakar. "A new SAR image despeckling using correlation based fusion and method noise thresholding." *Journal of King Saud University-Computer and Information Sciences* 33, no. 3 (2021): 313–328. – IF: 6.9 (Q1) – [Article Access Link](#)
34. Manoj Diwakar, and **Prabhishek Singh***. "CT image denoising using multivariate model and its method noise thresholding in non-subsampled shearlet domain." *Biomedical Signal Processing and Control* 57 (2020): 101754. – IF: 5.1 (Q1) – [Article Access Link](#)
35. **Prabhishek Singh**, and Raj Shree. "A new homomorphic and method noise thresholding based despeckling of SAR image using anisotropic diffusion." *Journal of King Saud University-Computer and Information Sciences* 32, no. 1 (2020): 137–148. – IF: 6.9 (Q1) – [Article Access Link](#)
36. **Prabhishek Singh**, and Raj Shree. "A new SAR image despeckling using directional smoothing filter and method noise thresholding." *Engineering Science and Technology, an International Journal* 21, no. 4 (2018): 589–610. – IF: 5.7 (Q1) – [Article Access Link](#)

INTERNATIONAL JOURNALS (SCOPUS/ ESCI) – PUBLISHED/ACCEPTED

1. Vatsa, D., Yadav, A., **Prabhishek Singh**. & Diwakar, M. An Analytical Insight of Discussions and Sentiments of Indians on Omicron-Driven Third Wave of COVID-19. *SN COMPUT. SCI.* 4, 791 (2023). *Scopus* – [Article Access Link](#)
2. Kumar, A., Garg, R. D., **Prabhishek Singh**, Shankar, A., Nayak, S. R., & Diwakar, M. (2023). Monitoring the Land Use, Land Cover Changes of Roorkee Region (Uttarakhand, India) Using Machine Learning Techniques., 14(1), 1–16. *Scopus* – [Article Access Link](#)
3. Diwakar, Manoj, **Prabhishek Singh**, Achyut Shankar, Soumya Ranjan Nayak, Janmenjoy Nayak, S. Vimal, Ravinder Singh, and Dilip Sisodia. "Directive clustering contrast-based multi-modality medical image fusion for smart healthcare system." *Network Modeling Analysis in Health Informatics and Bioinformatics* 11, no. 1 (2022): 1–12. *Scopus, ESCI*– [Article Access Link](#)
4. **Prabhishek Singh** and Manoj Diwakar, "Wavelet-based Multi-focus Image Fusion Using Average Method Noise Diffusion (AMND)", *Recent Advances in Computer Science and Communications* 2021; 14(8). *Scopus*. – [Article Access Link](#)
5. Manoj Diwakar, **Prabhishek Singh**, and Achyut Shankar. "Modified handshake protocol-based secure authentication using blockchain technology in WLAN." *International Journal of Electronic Business* 17, no. 3 (2022): 305–317, *Scopus*. *Scopus*. – [Article Access Link](#)
6. Harsha Chauhan, Deepali Gupta, Sheifali Gupta, Soumya Ranjan Nayak, Achyut Shankar, and **Prabhishek Singh**. "Framework for Enhancing the Traceability in Supply Chain Using Blockchain." *Journal of Interconnection Networks* (2022): 2144008, *Scopus, ESCI*. – [Article Access Link](#)
7. **Prabhishek Singh**, and Raj Shree. "Impact of Method Noise on SAR Image Despeckling." *International Journal of Information Technology and Web Engineering (IJITWE)* 15, no. 1 (2020): 52–63, *Scopus, ESCI*. – [Article Access Link](#)
8. **Prabhishek Singh**, R. Sharma, S. Sambhav, S. Singh, and M. Diwakar. 2020. "A Comparative Study of Decomposition Level using Entropy and Wiener Function in Wavelet Transform." *International Journal of Control and Automation* 13 (2) Special Issue: 58–63, *Scopus*. – [Article Access Link](#)
9. Raj Shree, Ashwani Kant Shukla, Ravi Prakash Pandey, Vivek Shukla, and **Prabhishek Singh**. "A Critical Review on Despeckling Methods in Agricultural SAR Image." *International Journal of Applied Exercise Physiology* 9, no. 7 (2020): 258–266, *ESCI*. – [Article Access Link](#)
10. Musheer Vaqur, **Prabhishek Singh***, Manoj Diwakar, Raj Shree, "An Edge Preserving Wavelet based Despeckling of SAR Images using Anisotropic Diffusion", *Journal of Advanced research in Dynamical Control Systems (JARDCS)*, Publication date: 2018/3, Volume: 10, Issue: Special Issue 04–Special Issue, Pages 61–67, *Scopus*. – [Article Access Link](#)
11. **Prabhishek Singh**, and Raj Shree. "Speckle noise: modelling and implementation." published in *International Journal of Control Theory and Applications*, vol. 9, no. 17, pp. 8717–8727. International Science Press, 2016,

Scopus. – [Article Access Link](#)

12. Shailesh Khapre, **Prabhishek Singh***, Achyut Shankar, Soumya Ranjan Nayak, and Manoj Diwakar. "Context-based intelligent recommendation by code reuse for smart decision support and cognitive adaptive systems." International Journal of Intelligent Unmanned Systems (2021). *Scopus & ESCI*. – [Article Access Link](#)

INTERNATIONAL JOURNALS (UGC INDEXED AND OTHERS)

1. Muhanad T. Younis, Nadia Mahmood Hussien, Yasmin Makki Mohialden, Komeil Raisian, **Prabhishek Singh**, and Kapil Joshi. 2023. "Enhancement of ChatGPT Using API Wrappers Techniques". AI-Mustansiriyah Journal of Science 34 (2):82–86. <https://doi.org/10.23851/mjs.v34i2.1350>.
2. **Prabhishek Singh**, Amrendra Tripathi, S. Singh, Manoj Diwakar, Raj Shree, "A comparative analysis on SAR image despeckling techniques", Issue Vol. 83: March/April 2020, Test Engineering and Management, Page no: 5978 – 5985.
3. **Prabhishek Singh**, Chandrakala Arya, Kanika Sharma, Manoj Diwakar, Shilpi Singh, "Efficient Wavelet related Transforms in Image Denoising", Issue Vol. 83: May/June 2020, Test Engineering and Management, Page no: 8595 – 8602.
4. **Prabhishek Singh**, Raj Shree, "Statistical Assessment of Despeckling Algorithms With and Without Reference Indexes in Synthetic Aperture Radar Images", Advanced Science, Engineering and Medicine, Vol. 10, 1–4, 2018. *UGC Indexed*.
5. Kaushal Kishor, **Prabhishek Singh**, "Performance Evaluation of Nonlinear Filters for Impulse Noise Removal", International Journal of Advanced Studies in Computer Science and Engineering, Volume 7, Issue 1, Pages 40–46, 2018. *UGC Indexed*.
6. **Prabhishek Singh**, Raj Shree, "Statistical Quality Analysis of Wavelet Based SAR Images in Despeckling Process", Asian Journal of Electrical Sciences (AJES), Volume 6 No.2 July– December 2017 pp 1–18. *UGC Indexed*.
7. **Prabhishek Singh**, Raj Shree, "A New Computationally Improved Homomorphic Despeckling Technique of SAR Images", in International Journal of Advanced Research in Computer Science, Volume 8, Number 3, March–April 2017. *UGC Indexed*.
8. **Prabhishek Singh**, Raj Shree, "Quantitative Dual Nature Analysis of Mean Square Error in SAR Image Despeckling", in International Journal on Computer Science and Engineering (IJCSE), Volume 9 Number 11 Nov, Page: 619–622. (2017). *UGC Indexed*.
9. **Prabhishek Singh**, Raj Shree, "Statistical Modelling of Log Transformed Speckled Image", published online in Vol. 14 No. 8 AUGUST 2016 International Journal of Computer Science and Information Security, (pp. 426–431). *UGC Indexed*.
10. **Prabhishek Singh**, Raj Shree, "Importance of DWT In Despeckling SAR Images And Experimentally Analyzing The Wavelet Based Thresholding Techniques", in International Journal Of Engineering Sciences & Research Technology, 5(10): October, 2016. *UGC Indexed*.
11. **Prabhishek Singh**, Raj Shree, "A Comparative Study to Noise Models and Image Restoration Techniques", in International Journal of Computer Applications, Volume 149 – Number 1, Year: 2016.
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2. **Prabhishek Singh**, Ankur Maurya, Achyut Shankar, Sathishkumar V E, Manoj Diwakar. Wireless Sensor Network-based Monitoring System for Health Structure of Rail-tracks: An Efficient Design for Communication. ACE (2023) Vol. 8: 42–47. [DOI: 10.54254/2755-2721/8/20230070](https://doi.org/10.54254/2755-2721/8/20230070).
3. Manoj Diwakar, **Prabhishek Singh**, Achyut Shankar, Sathishkumar V. E., Kapil Joshi, Mohit Kumar. A Critical Review on CT Image denoising in Wavelet domain. ACE (2023) Vol. 8: 31–36. [DOI: 10.54254/2755-2721/8/20230067](https://doi.org/10.54254/2755-2721/8/20230067).
4. Monika Dixit, Mukesh Ojha, Manoj Diwakar, **Prabhishek Singh**, Achyut Shankar, Sathishkumar V. E.. A New Consumer Behaviour and A New Frameworks for Challenges in E-paper Publishing. ACE (2023) Vol. 8: 37–41. [DOI: 10.54254/2755-2721/8/20230068](https://doi.org/10.54254/2755-2721/8/20230068).
5. Vaibhav Yadav, Ayush Gupta, Sanjiv Tomar, **Prabhishek Singh**, Manoj Diwakar and Dr. Kapil Joshi, "Realtime Mask and Face Detection Using Tensor Flow, Keras, and OpenCV", River Publishers Series in Proceedings, Intelligent Systems – Proceedings of ICIS-2022, e-ISBN: 9788770227667, doi: <https://doi.org/10.13052/rp-9788770227667>, Available: April 2022.
6. Sunil Kumar, Aditya Saxena, Prabhishek Singh, Manoj Diwakar and Kapil Joshi, Dr. Van Cuong Nguyen, "Artificial Intelligence based Improved Accuracy Model for Edge Computing, and IoT", River Publishers Series in Proceedings, Intelligent Systems – Proceedings of ICIS-2022, e-ISBN: 9788770227667, doi: <https://doi.org/10.13052/rp-9788770227667>, Available: April 2022.
7. Ashish Tiwari, Sarvesh Kumar, **Prabhishek Singh**, Manoj Diwakar and Kapil Joshi, Thanh-lan Thi Nguyen, "Lightweight Dynamic traffic congestion based Authenticated Protection in Computing Services", River Publishers Series in Proceedings, Intelligent Systems – Proceedings of ICIS-2022, e-ISBN: 9788770227667, doi: <https://doi.org/10.13052/rp-9788770227667>, Available: April 2022.
8. Rupinder Kaur, Sarvesh Kumar, **Prabhishek Singh**, Manoj Diwakar, Rajesh Singh, Kapil Joshi, Sunil Kumar, "Object Recognition and Detection of Submarine Objects Utilizing Neural Network Optimum Techniques", River Publishers Series in Proceedings, Intelligent Systems – Proceedings of ICIS-2022, e-ISBN: 9788770227667, doi: <https://doi.org/10.13052/rp-9788770227667>, Available: April 2022.
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PATENTS PUBLISHED

1. **Title Of The Invention:** A System And Method For Securing Key Distribution Through Quantum Communication Protocol With Cloud And Blockchain Integration, **Application No:** 202341018874 A, **Publication Date:** 31/03/2023, **Name Of Inventor:** 1) Voore Subrahmanyam, Archana, Mukul Arora, Gurpreet Kaur, Ravi Kumar Sharma, P B Padmanabhan, Pawan Bhambu, **Prabhishek Singh**.
2. **Title Of The Invention:** A System And Method Based On Convolutional Neural Network For Evaluating Electric Vehicle Energy Demand, **Application No:** 202231046196, **Publication Date:** 26/08/2022, **Name Of Inventor:** Dr. Umasankar Das, Dr. Ranjan Kishore Mallick, Deepak Kumar Joshi, Anshul Jain, Basu Dev Shivahare, Dr. Urvashi Sharma, Dr. Arvinda Kushwaha, **Prabhishek Singh**.

3. **Title Of The Invention:** A Despeckling Framework Of Agricultural Sar Images For Land Monitoring, **Application No:** 201711035086 A, **Publication Date:** 24/11/2017, **Name Of Inventor:** Raj Shree, **Prabhishek Singh**, Ravi Prakash Pandey.
4. **Title Of The Invention:** A Speckle Reduction Framework For Spotlight Sar Images Using Fusion, **Application No:** 201711040558 A, **Publication Date:** 08/12/2017, **Name Of Inventor:** Raj Shree, **Prabhishek Singh**, Ravi Prakash Pandey, Vivek Shukla, Manoj Diwakar.
5. **Title Of The Invention:** A Despeckling Framework For Ultrasound Images Using Hybrid Approach, **Application No:** 201711042684 A, **Publication Date:** 08/12/2017, **Name Of Inventor:** Manoj Diwakar, Raj Shree, **Prabhishek Singh**.

PATENTS FILED

1. **Title of The Invention:** Mesh Sort– A Sorting Algorithm Based On Mesh Topology, **Date Of Filing:** 10/05/2018, **Name Of Inventor:** 1. Shree, Raj 2. Bharti, Puneet 3. **Singh, Prabhishek** 4. Pandey, Ravi Prakash 5. Shukla, Vivek 6. Srivastava, R.K.

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1. Manoj Diwakar, **Prabhishek Singh**, Pardeep Kumar, "Chapter 14 – Multimodality medical image fusion in shearlet domain", Editor(s): Shyam Singh Rajput, Nafis Uddin Khan, Amit Kumar Singh, Karm Veer Arya, In Hybrid Computational Intelligence for Pattern Analysis, Digital Image Enhancement and Reconstruction, Academic Press, 2023, Pages 317–328, ISBN 9780323983709, – [Access Link](#) (Scopus Indexed)
2. Ansh Gupta, Sanjiv Kumar Tomar, **Prabhishek Singh**, and Manoj Diwakar. "Traffic jam detection using CNN and KNN algorithms." In Emerging Trends in IoT and Computing Technologies: Proceedings of the International Conference on Emerging Trends in IoT and Computing Technologies (ICEICT–2022), April 22–23, 2022, Lucknow, India, p. 403. Taylor & Francis, 2022. – [Access Link](#) (Scopus Indexed)

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1. Shailendra Pratap Singh, **Prabhishek Singh**, Manoj Diwakar, VinayaKumar Ravi, "DATA–DRIVEN DIAGNOSTICS AND DISEASE PREDICTION WITH AI OPTIMIZATION" by Elsevier [ONGOING] – [Link](#)
2. **Prabhishek Singh**, Manoj Diwakar, Pardeep Kumar, Deepak Garg, "HEALTHCARE INDUSTRY ASSESSMENT: ANALYZING RISKS, SECURITY, AND RELIABILITY", by Springer [ONGOING] – [Link](#)
3. **Prabhishek Singh**, Raj Shree, Manoj Diwakar, "SAR Image Despeckling: Theory and Techniques" Paperback: 76 pages, Publisher: LAP LAMBERT Academic Publishing is in cooperation with: MoreBooks! Marketing SRL Balti, 4 Industrialia street, Moldova, Europe (July 18 2018), Language: English, ISBN–10: 9786139873838, ISBN–13: 978–6139873838, ASIN: 6139873835. **Available at:** <https://www.amazon.com/SAR-Image-Despeckling-Theory-Techniques/dp/6139873835>

MEMBERSHIP AND OTHER CONTRIBUTIONS

1. **Research Cluster Head** in School of Computer Science Engineering and Technology, Bennett University.
2. **IEEE Senior Member**, Member ID: 93996702, Uttar Pradesh Section.
3. **Program Chair** in 4th International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication (MARC–2023), Conference Date: 28th–29th November 2023
4. **Session Chair** in the 2nd International Conference on Innovative Sustainable Computational Technologies (CISCT), Date of Conference: 23–24 December 2022
5. **Session Chair, and Technical Program Committee member** in the International Conference on Intelligence System (ICIS–2022) during 11–12th March, 2022, ORGANIZED BY: UTTARANCHAL INSTITUTE OF TECHNOLOGY, Uttarakhand University, Dehradun, Uttarakhand.
6. **Esteemed Chair for the session on High Performance Computing** in 3rd International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication (Virtual Mode) held at KRISHNA ENGINEERING COLLEGE, 95, Loni Road, near Hindon Air Force Base, Mohan Nagar, Ghaziabad – 201007 (UP), INDIA.

7. **Technical Program Committee Chair, and Session Chair** in the 3rd International Conference on “Advances in Engineering, Science & Technology 2021” on 21st and 22nd May 2021, organized by Uttarakhand Institute of Technology, Uttarakhand University, Dehradun.
8. **Head of Publicity Committee, and Session Chair** of IoT-SIU 2019 (Internet of Things: Smart Innovation and Usages) in Krishna Engineering College, Mohan Nagar, Ghaziabad.
9. **Co-coordinator** of Two Days Workshop on INTELLECTUAL PROPERTY RIGHTS sponsored by Ministry of Electronics & Information Technology, Government of India, New Delhi organized by KEC, Ghaziabad, 5 – 6 December 2018.
10. **Member of Core Committee** for NBA Accreditation in Krishna Engineering College, Mohan Nagar, Ghaziabad in 2018.
11. **Technical Program committee member and Reviewer** of Confluence 2022, Confluence 2021, MARC 2021, AICMT 2021, UPCON-2021, AIAIA 2021, ICAEST 2021, ICSCCC 2021, Confluence 2020, MARC 2020, ICACTM-2019, IOT-SIU 2019, ICACE-2018, and ICACCA-2018.
12. **Reviewer** of multiple SCIE/ Scopus Indexed Journals like “Journal of Testing and Evaluation”, “Journal of Applied Remote Sensing (SPIE)”, “IET Image Processing”, “Advances in Science, Technology and Engineering Systems Journal (ASTESJ)”, “Journal of Healthcare Engineering (Hindawi)”, “Academia Letters (Academia.edu)”, “Bulletin of Electrical Engineering and Informatics (BEEI)”, “Concurrency and Computation: Practice and Experience”, “Information Processing in Agriculture, Elsevier”, “Pattern Analysis and Applications”.

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