

Profile Page



Name : Dr Nagendra Pratap Singh

Designation : Assistant Professor (Grade-I)

Department : Computer Science & Engg.

Qualification : Ph.D. Computer Science and Engineering (Indian Institute of Technology (BHU), Varanasi)
M.Tech. Computer Science and Engineering (Motilal Nehru National Institute of Technology, Allahabad)
B.Tech. Computer Science and Engineering (Institute of Engineering and Technology, Kanpur)
Intermediate Science (PCM) (Government Inter College, Allahabad)
High School Science (PCMB) (Government Inter College, Allahabad)

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Research Interests :

Medical Image Processing, Computer Vision, Machine Learning, Pattern Recognition

Other Profile Links :

Google Scholar Link :

Dr. Nagendra Pratap singh [Click Here](#)

Journal Publications :

| Year | Journal | Publication |
|-------------|---|--|
| 2023 | International Journal of Information Technology (Under Publication) | Novel ALBP and OLBP features for gender prediction from offline handwriting |
| 2023 | Neural Computing and Applications (Under Publication) | Retinal Disease Prediction through Blood Vessel Segmentation and Classification Using Ensemble Based Deep Learning Approaches |
| 2023 | The Imaging Science Journal | Identification of Retinal Diseases based on Retinal blood Vessel Segmentation using Dagum PDF and Feature-Based Machine Learning |

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| 2022 | Pattern Analysis and Applications PAA | K Susheel Kumar and Nagendra Pratap Singh, Segmentation of Retinal Blood Vessel using Generalized Extreme Value Probability Distribution function(pdf) based Matched Filter Approach |
| 2022 | Multimedia Tools and Applications | K Susheel Kumar and Nagendra Pratap Singh, Analysis of retinal blood vessel segmentation techniques: a systematic survey |
| 2022 | International Journal of Fuzzy System Applications (IJFSA) Vol-11, No.-2 | K Susheel Kumar and Nagendra Pratap Singh, Retinal Blood Vessel Segmentation Using a Generalized Gamma Probability Distribution Function (pdf) of Matched Filtered |
| 2022 | Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization pp-1-18 | Sushil Kumar Saroj, Rakesh Kumar, Nagendra Pratap Singh, Retinal Blood Vessels Segmentation using Wald PDF and MSMO Operator |
| 2022 | Electronic Letters on Computer Vision and Image Analysis Vol-21, No-1, PP-28-46 | Sushil Kumar Saroj, Rakesh Kumar, Nagendra Pratap Singh, Retinal Blood Vessels Segmentation using Fréchet PDF and MSMO Method |
| 2021 | International Journal of Medical Engineering and Informatics, "Segmentation of retinal blood vessel structure using Birnbaum-Saunders (fatigue life) probability distribution function" | K. Susheel Kumar, Nagendra Pratap Singh (Inderscience (Scopus)) |
| 2020 | Computer Methods and Programs in Biomedicine, Elsevier, "Fréchet PDF based Matched Filter Approach for Retinal Blood Vessels Segmentation" Vol-194 | Sushil Kumar Saroj, Rakesh Kumar, Nagendra Pratap Singh (SCI Impact Factor 7.027) |
| 2020 | Traitement du Signal , "Efficient Segmentation and Registration of Retinal Image Using Gumbel Probability Distribution and BRISK Feature" | Nagendra Pratap Singh , Vibhav Prakash Singh (SCIE Impact factor 1.541 , Scopus) |
| 2020 | Solid State Technology , "Efficient Kernel based Matched Filter Approach for Segmentation of Retinal Blood Vessels" | Sushil Kumar Saroj, Vikas Ratna, Rakesh Kumar, Nagendra Pratap Singh (Scopus) |
| 2019 | Cluster Computing , "On scheduling transaction in grid computing using cuckoo search-ant colony optimization considering load" | Dharmendra Prasad Mahato, Jasminder Kaur Sandhu, Nagendra Pratap Singh, Vishal Kaushal(SCI Impact factor 1.851) |
| 2018 | National Academy of Sciences, India Section A, springer publication. "Extraction of retinal blood vessels by using an extended matched filter based on second derivative of Gaussian" | Nagendra Pratap Singh, Rajeev Srivastava (SCI Impact factor 0.754) |
| 2016 | International Journal of Biomedical Engineering and Technology "Segmentation of retinal blood vessels by using a matched filter based on second derivative of Gaussian" | Nagendra Pratap Singh, Rajeev Srivastava(Scopus Indexed) |

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| 2016 | Computer Methods and Programs in Biomedicine, Elsevier, Retinal blood vessels segmentation by using Gumbel Probability Distribution Function based matched filter" | Nagendra Pratap Singh, Rajeev Srivastava (SCI Impact factor 7.027) |
| 2013 | International Journal of Computer Theory and Engineering, "An Approach to Filter the Test Data for Killing Multiple Mutants in Different Locations" Vol. 5, No. 2 | Nagendra Pratap Singh, Rishi Mishra, Sailesh Tiwari, A. K. Misra(IJCTE) |
| 2012 | Advanced Materials Research, "An ID-Based Signature Scheme from Bilinear Pairing Based on Ex-K-Plus Problem", Vols. 408, pp. 929-934 | Shivendu Mishra, Ritika Yaduvanshi, Anjani Kumar Rai, Nagendra Pratap Singh,(Trans Tech Publications, Switzerland) |
| 2011 | ACEEE Int. J. on Information Technology, "Analysis of Software Complexity Measures for Regression Testing" Volume 1– No.2 | Mrinal Kanti Debbarma, Nagendra Pratap Singh, Amit Kumar. Shrivastava, and Rishi Mishra(ACEEE) |
| 2011 | International Journal of Computer Applications, "Analytical review of test redundancy detection techniques", (0975 – 8887) Volume 27– No.1 | Nagendra Pratap Singh, Rishi Misra, Rajit Ram Yadav(IJCA) |
| 2010 | International Journal of Information Sciences and application, Analysis of Unit Testing using Petri Net", Vol. 2, No. 3, pp 501-506 | Rishi Misra, Nagendra Pratap Singh (IJISA) |

Conference Publications :

| Year | Conference | Publication |
|------|--|--|
| 2021 | Segmentation of Retinal Blood Vessel using an Algorithm-based Gamma Distribution of Matched Filter | K. Susheel Kumar, Chandra Shekar Jatoth, Nagendra Pratap Singh, International virtual conference on Integrated Intelligence Enable Networks and Computing (IIENC-2020) |
| 2020 | Image Enhancement: A Review | Prem Kumari Verma, Nagendra Pratap Singh, Divakar Yadav, Ambient Communications and Computer Systems |
| 2019 | Dependability Analysis for On-Demand Computing Based Transaction Processing System | Dharmendra Prasad Mahato, Jasminder Kaur Sandhu, Nagendra Pratap Singh, Kamlesh Dutta, The 33rd International Conference on Advanced Information Networking and Applications (AINA-2019) |
| 2019 | An Efficient Approach for Plant Leaves Identification based on Texture Features | Sushil Kumar Saroj, Shiho Oshiro, Pratima Yadav, Nagendra Pratap Singh, CCIIoT-2018, International Conference on Computational Intelligence & IoT, organized by National Institute of Technology Agartala, Tripura |

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| 2019 | Performance Evaluation of Breast Cancer Classifiers using Different Tools | Sushil Kumar Saroj, Nitika Nigam, Nagendra Pratap Singh, ICCIoT-2018, International Conference on Computational Intelligence & IoT, organized by National Institute of Technology Agartala, Tripura |
| 2019 | Melanoma Skin Cancer Detection Using Various Classifiers | Preeti Shahi, Shekhar Yadav, Navdeep Singh, Nagendra Pratap Singh, UPCON-2018, 5th IEEE Uttar Pradesh Section International Conference, jointly organized by M. M. M. University of Technology, Gorakhpur, U.P., India and University of the Ryukyus, Okinawa, Japan |
| 2019 | Feature based leaf identification | Nagendra Pratap Singh, Takumi Nagahma, Pratima Yadav, Divakar Yadav, Nagendra Pratap Singh, Takumi Nagahma, Pratima Yadav, Divakar Yadav |
| 2019 | Classification of normal and abnormal retinal image by using feature based machine learning approach | Pratima Yadav, Nagendra Pratap Singh, International Conference on “Emerging Trends in Communication, Computing and Electronics (IC3E-2018), organized by J K Institute of Applied Physics and Technology, University of Allahabad, Allahabad |
| 2019 | Machine Learning based Classification of Good and Rotten Apple | Shiksha Singh, Nagendra Pratap Singh, International Conference on “Emerging Trends in Communication, Computing and Electronics (IC3E-2018), organized by J K Institute of Applied Physics and Technology, University of Allahabad, Allahabad |
| 2019 | Mushroom Classification using Feature Based Machine Learning Approach | Pranjal Maurya, Nagendra Pratap Singh, Third International Conference on Computer Vision & Image Processing 2018 (CVIP-2018) |
| 2015 | Weibull Probability Distribution Function based Matched Filter Approach for Retinal Blood Vessels Segmentation | Nagendra Pratap Singh, Rajeev Srivastava, LNCS, International Conference on Computational Intelligence (ICCI-2015) |
| 2015 | Local Entropy Thresholding Based Fast Retinal Vessels Segmentation by Modifying Matched Filter | Nagendra Pratap Singh, Rajesh Kumar, Rajeev Srivastava, IEEE, International Conference on Computing Communication and Automation (ICCCA-2015) |
| 2012 | Security Issues in Wireless Sensor Networks and Data-Aggregation : The Review | N P Singh et al. , International Conference on Artificial Intelligence and Soft Computing (AISC-2012), IIT BHU, Varanasi. |
| 2011 | The review: Lifecycle of object-oriented software testing | Nagendra Pratap Singh, Rishi Mishra, Mrinal Kanti Debbarma, Sanjay Sachan, 3rd International Conference on Electronics Computer Technology |
| 2007 | Information Extraction Using Text Miner | N P Singh et al. , National conference at Invertis Institute of Engineering an Technology Bareilly |
| 2007 | Impact Of Users Query Complexity On Web Results | N P Singh et al. , National conference at Shri Ram Murti Smarak Collage of Engineering and Technology, Bareilly |

Book/Chapter Publications :

| Type | Title | Publisher | Authors | ISBN/ISS N No. | Year |
|------|--|--------------------------------------|--|-------------------------|------|
| Book | Intensity Based Medical Image Registration | LAMBERT Academic Publishing, Germany | Nagendra Pratap Singh, Rajeev Srivastava | ISBN: 978-3-659-81777-9 | 2019 |

Events Organized :

| Category | Type | Title | Venue | From | To | Designation |
|------------|----------|--|--|------------|------------|--------------|
| conference | National | Malaviya Research Conclave-2018 | Department of Computer Science and Engineering by MMMUT-Gorakhpur | 08/07/2018 | 08/07/2018 | co-ordinator |
| stc | National | Advances in Computing Technology-2018 (ACT-2018) | Department of Computer Science and Engineering, M.M.M. University of Technology, Gorakhpur | 12/03/2018 | 18/03/2018 | co-ordinator |
| stc | National | Advances in Computing Technology-2017 (ACT-2017) | Department of Computer Science and Engineering by MMMUT-Gorakhpur | 23/02/2017 | 01/03/2017 | co-ordinator |

PhD Supervised :

| Scholar Name | Research Topic | Status | Year | Co-Supervisor |
|--------------------|----------------------------|-----------|------|---------------|
| K. Susheel Kumar | Image processing | completed | 2023 | |
| Sushil Kumar Saroj | Retinal Image Segmentation | completed | 2022 | |

PG Dissertation Guided :

| Student Name | Dissertation Title | Status | Year | Co-Supervisor |
|-----------------------------|--|-----------|------|---------------|
| Himanshu Sharma (18M510) | Skin Pattern Based Gender Classification | completed | 2020 | |
| Raj Rahi (15MI530) | Offline Hand Writing Based Gender Classification | completed | 2020 | |
| Sunidhi Chaudhary (15MI513) | Retinal Image Segmentation | completed | 2020 | |
| Amandeep Singh (15MI539) | Image Enhancement | completed | 2020 | |

Award and Honours :

| Title | Activity | Given by | Year |
|-------|----------------------|--|------|
| | Research Scholar Day | Department of Computer Science and Engineering at IIT (BHU), Varanasi, India | 2016 |