

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)
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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

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, Jasmininder 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)

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

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 and 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 Writting 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