



Centre/School/Special Centre:Engineering and Technology

Department:Electronics & Communication Engineering

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Personal Webpage Link

Qualifications- M.E. and Ph.D in Electronics and Communication Engineering.

Area of Interest/Specialization- Image Processing, Compute Vision, Artificial Neural Network.

Experience- 2.5 year

Awards and Honors - Nil

Research Projects - Nil

International Collaboration/Consultancy - Nil

Best Peer Reviewed Publication (up-to 10)-

- **Nikita Kashyap** and Dharmendra Kumar Singh. (2017), “Color Histogram Based Image Retrieval Technique for Diabetic Retinopathy Detection”. 2nd **IEEE** sponsored International Conference for Convergence in Technology (I2CT). 799-802, DOI: 10.1109/I2CT.2017.8226238.
- **Nikita Kashyap**, Dharmendra Kumar Singh and Girish Kumar Singh. (2017), “Mobile Phone Based Diabetic Retinopathy Detection System Using ANN-DWT”. 4th **IEEE** UPCON Conference on Electrical, Computer and Electronics, Mathura, India. 463-467, DOI: 10.1109/UPCON.2017.8251092.
- **Nikita Kashyap**, Dharmendra Kumar Singh and Girish Kumar Singh. (2019), “Develop a Novel Screening Tool Based on Wavelet Transform for Identification of Diabetic Retinopathy”. Anusandhan (AUJ-AN), Vol 9, issue 17, pp.41-46.

- **Nikita Kashyap**, Dharmendra Kumar Singh and Girish Kumar Singh. (2019), “Review of Digital image processing techniques for detection of diabetic retinopathy”. *International Journal of Emerging Technologies and Innovative Research*. Vol. 6, Issue 3, 559-563.
- **Nikita Kashyap**, Dharmendra Kumar Singh and Girish Kumar Singh. (2019), “A Novel Approach for Detecting and Grading Diabetic Retinopathy using Wavelet Transform and Artificial Neural Network”. *International Journal of Research in Electronics and Computer Engineering, IJRECE*. Vol. 7, Issue 2, 100-104.
- **Nikita Kashyap**, Dharmendra Kumar Singh and Girish Kumar Singh. (2019), “Comparison of Different Diabetic Retinopathy Detection Algorithms with a Proposed One Using Neural Network and DWT”. *International journal of Engineering development and research (IJEDR)*. Vol. 7, Issue 3, pp. 298-304.
- **Nikita Kashyap**, A. Ahmad, G.R. Sinha. (2014), “3-Level DWT Image Watermarking Against Frequency & Geometrical Attacks”, *International Journal of Computer Network & Information Security*.
- **Nikita Kashyap** and G. R. Sinha. (2013), “Robust Image Watermarking scheme based on LSB Replacement”, *National conference in advance in computing*, pp. 45-50.
- **Nikita Kashyap** and G. R. Sinha. (2012), “Image Watermarking Using 2-Level DWT”, *Advances in Computational Research*, Vol. 4, No.1, pp. 42-45.
- **Nikita Kashyap** and G. R. Sinha. (2012), “Image Watermarking Using 3-Level DWT”, *I. J. Modern Education and Computer Science*, Vol. 3, pp. 50-56.

Recent Books/Book Chapters/Monographs etc.-

- **Nikita Kashyap**, Dharmendra Kumar Singh and Girish Kumar Singh (2019). “Color Histogram and Smartphone-Based Diabetic Retinopathy Detection System”, In: Ray, K., Sharan, S., Rawat, S., Jain, S., Srivastava, S., Bandyopadhyay, A. (eds) *Engineering Vibration, Communication and Information Processing. Lecture Notes in Electrical Engineering*, Vol 478. **Springer**, Singapore. DOI: https://doi.org/10.1007/978-981-13-1642-5_58.
- **Nikita Kashyap**, Dharmendra Kumar Singh and Girish Kumar Singh (2020). “Mobile Phone Based Diabetic Retinopathy Detection System”, In: Ayman S. El-Baz, Jasjit S. Suri (eds). In *Computer-Assisted Diagnosis, Diabetes and Fundus OCT*. **Elsevier**. DOI: <https://doi.org/10.1016/B978-0-12-817440-1.00004-8>.
- **Nikita Kashyap**, Dharmendra Kumar Singh, Girish Kumar Singh and Arun Kumar Kashyap (2021). *Identification of Diabetic Retinopathy Stages Using Modified DWT and Artificial Neural Network*. Akinik Publications, New Delhi. DOI: <https://doi.org/10.22271/ed.book.1314>.
- Arun Kumar Kashyap, Shabir Imteyaz Khan, **Nikita Kashyap** (2022). “Biotechnological Role in Corona Vaccine Development”, In: Deepika Saini, Prabhat Kumar Singh (eds),

Climate Change and Water Security Challenges for Adaptive Water Management. ABS Books, India.

Research Supervision - Nil

Administrative Responsibilities-

- Member board of studies.
- Module Coordinator of Residence Allocation Management and Career Advancement Scheme

Additional Information-

- Qualified UGC-NET Examination 2013.
- Qualified GATE Examination 2013.