

Research Publications

Journal Papers

- [1] Mayank Kumar Rusia and Dushyant Kumar Singh, "A Novel Deep Transfer Learning based Approach for Face Pose Estimation" *Cybernetics and Information Technologies*, Vol pp. (April 2024) [Accepted, **Scopus Indexed**]
- [2] Lalit Kumar, **D. K. Singh**, "Diversified realistic face image generation GAN for human subjects in multimedia content creation", *Wiley Computer Animation And Virtual Worlds*, Vol 35.2 pp. e2232 (April 2024). [**SCI Indexed, IF=1.1**]
- [3] Amit Yadav, **D. K. Singh**, "Artificial Intelligence Control Learning for Autonomous Industrial Robots", *International Journal of Computational Vision and Robotics*, Vol pp. (February 2024). [Accepted, **Scopus**]
- [4] Lalit Kumar, **D. K. Singh**, "A novel aspect of automatic Vlog Content Creation using generative Modeling approaches", *Elsevier Digital Signal Processing*, Vol 148 pp. 104462 (May 2024). [**SCI Indexed, IF=2.9**]
- [5] Lalit Kumar, **D. K. Singh**, "Pose Image Generation for Video Content Creation using Controlled Human Pose Image Generation GAN", *Springer Multimedia Tools and Applications*, Vol 83 pp. 59335-59354 (December 2023). [**SCI Indexed, IF=2.757**]
- [6] V. P. Singh, Aman Verma, **D. K. Singh**, Ritesh Maurya, "Improved content-based brain tumor retrieval for magnetic resonance images using weight initialization framework with densely connected deep neural network", *Springer Neural Computing and Applications*, Vol pp. (Nov 2023). [Preprint, **SCI Indexed, IF=6.0**]
- [7] Aquib Ansari, **D. K. Singh**, Ruchi Jayaswal "Using Postural Data and Recurrent Learning to Monitor Shoplifting Activities in Megastores", *Wiley Concurrency and Computation: Practice and Experience*, Vol 36.2 e7900 (January 2023) [**SCI Indexed, IF=2.0**]
- [8] Aquib Ansari, **D. K. Singh**, Vibhav Prakash Singh, "Detecting Abnormal Behavior in Megastore for Crime Prevention using a Deep Neural Architecture", *International Journal of Multimedia Information Retrieval*, Vol 12 art. 25 (August 2023). [**SCI Indexed, IF=2.553**]
- [9] Mayank Kumar Rusia, and **D. K. Singh**, "An Improved Deep Transfer Learning Approach to Identify the Human Face Mask in Real-Time Considering the COVID-19 Pandemic," *Springer Multimedia Tools and Applications*, Vol 83 pp. 21695-21743 (July 2023). [**SCI Indexed, IF=2.757**]
- [10] Aquib Ansari, **D. K. Singh**, Vibhav Prakash Singh, "Detecting Abnormal Behavior in Megastore for Intelligent Surveillance through 3D Deep Convolutional Model", *SCIENDO Journal of Electrical Engineering*, Vol 74.3 pp. 140-153 (March 2023) [**SCI Indexed, IF=0.840**]
- [11] Lalit Kumar, **D. K. Singh**, "A Comprehensive Survey on Generative Adversarial Networks used for synthesizing multimedia content", *Springer Multimedia Tools and Applications*, Vol 82 pp. 40585-40624 (March 2023). [**SCI Indexed, IF=2.757**]

- [12] Aquib Ansari, **D. K. Singh**, “Optimized parameter tuning in a recurrent learning process for shoplifting activity classification”, *Cybernetics and Information Technologies*, Vol 23.1 pp. 141-160 (March 2023). [**Scopus Indexed**]
- [13] Shruti Pallawi, **D. K. Singh**, “Study of Alzheimer’s Disease Brain Impairment and methods for its early diagnosis: A Comprehensive Survey”, *International Journal of Multimedia Information Retrieval*, Vol 12.1 art. 7 (March 2023). [**SCI Indexed, IF=2.553**]
- [14] Neelam Dwivedi, **D. K. Singh**, D. S. Kushwaha, “A Novel Approach for Suspicious Activity Detection with Deep Learning”, *Springer Multimedia Tools and Applications*, Vol 82 pp. 32397-32420 (March 2023). [**SCI Indexed, IF=2.757**]
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- [16] Mayank Kumar Rusia, **D. K. Singh**, “Deep Architecture Based Face Spoofing Identification in Real-Time Application”, *Inderscience International Journal of Biometrics*, Vol 15.2 pp. 134-152 (January 2023). [**Scopus Indexed, ESCI**]
- [17] Aquib Ansari, **D. K. Singh**, “Identifying human activities in megastores through postural data to monitor shoplifting events”, *Springer Neural Computing and Applications*, Vol 35.9 pp. 6515-6528 (Nov 2022). [**SCI Indexed, IF=5.102**]
- [18] Lalit Kumar, **D. K. Singh**, “Hardware Response and Performance Analysis of Multicore Computing Systems for Deep Learning Algorithms”, *Cybernetics and Information Technologies*, Vol 22.3 pp. 68-81 (June 2022). [**Scopus Indexed**]
- [19] **D. K. Singh**, “Recognizing Elderly Peoples by Analyzing their Walking Pattern using Body Posture Skeleton”, *Springer International Journal of System Assurance Engineering and Management*, Vol 14 pp. 79-86 (December 2022) [**Scopus Indexed**]
- [20] Mayank Kumar Rusia, **D. K. Singh**, “A Color-Texture-based Deep Neural Network Technique to Detect Face Spoofing Attacks”, *Cybernetics and Information Technologies*, Vol 22.3 pp. 127-145 (September 2022). [**Scopus Indexed**]
- [21] Mayank Kumar Rusia, **D. K. Singh**, “A Comprehensive Survey on Techniques to Handle Face Identity Threats: Challenges and Opportunities”, *Springer Multimedia Tools and Applications*, Vol 82.2 pp. 1669–1748 (May 2022). [**SCI Indexed, IF=2.757**]
- [22] Aquib Ansari, **D. K. Singh**, “A Review of Machine Learning Approaches for Human Detection through Feature Based Classification”, *International Journal of Computing and Digital Systems*, Vol 12.1 pp. 569-586 (March 2022). [**Scopus Indexed**]
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- [27] **D. K. Singh**, “3D-CNN based Dynamic Gesture Recognition for Indian Sign Language Modeling”, Elsevier Procedia Computer Science, Vol 189 pp. 76-83 (July 2021) [**Scopus Indexed**]
- [28] Aquib Ansari, **D. K. Singh**, “Monitoring Social Distancing through Human Detection for Preventing/Reducing COVID Spread”, Springer International Journal of Information Technology, Vol 13.3 pp. 1255-1264 (June 2021). [**Scopus Indexed**]
- [29] Aquib Ansari, **D. K. Singh**, “Significance of Color Spaces & their Selection for Image Processing: A Survey”, Recent Advances in Computer Science and Communications, Benthamscience, Vol 15.7 pp. 946-956 (July 2022). [Accepted, **Scopus Indexed**]
- [30] Aquib Ansari, **D. K. Singh**, “Human Detection Techniques for Real Time Surveillance: A Comprehensive Survey”, Springer Multimedia Tools and Applications, Vol 80.6 pp. 8759-8808 (Nov 2020). [**SCI Indexed, IF=2.757**]
- [31] Neelam Dwivedi, **D. K. Singh**, D. S. Kushwaha, “An Approach for Unattended Object Detection through Contour Formation using Background Subtraction”, Elsevier Procedia Computer Science, Vol 171C pp. 1979-1988 (Jan 2020) [**Scopus**]
- [32] Komal Bajaj, **D. K. Singh**, Aquib Ansari, “Autoencoders Based Deep Learner for Image Denoising”, Elsevier Procedia Computer Science, Vol 171C pp. 1535-1541 (Jan 2020) [**Scopus**]
- [33] **D. K. Singh**, Sumit Paroothi, Mayank Kumar Rusia, Aquib Ansari, “Human Crowd Detection for City Wide Surveillance”, Elsevier Procedia Computer Science, Vol 171C pp. 350-359 (Jan 2020) [**Scopus**]
- [34] Neelam Dwivedi, **D. K. Singh**, D. S. Kushwaha, “Orientation Invariant Skeleton Feature (OISF): A new feature for Human Activity Recognition”, Springer Multimedia Tools and Applications, Vol 79 pp. 21037-21072 (April 2020). [**SCI Indexed, IF=2.757**]
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- [36] Pushkar P. Goswami, Diwakar Paswan, **D. K. Singh**, “Detecting moving objects in traffic surveillance video”, International Journal of Control Theory and Applications, Vol 9.17, pp 8423-8430 (2016) [**Scopus**]
- [37] **D. K. Singh**, D. S. Kushwaha, “Analysis of face feature based human detection techniques”, International Journal of Control Theory and Applications, Vol 9.22, pp 173-180 (2016) [**Scopus**]

- [38] Pushkar Protik Goswami, **D. K. Singh**, “A hybrid approach for real-time object detection and tracking to cover background turbulence problem”, Indian Journal of Science and Technology, Vol 9.45 (2016) [**Scopus**]
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- [40] **D. K. Singh**, “Dynamic Environment Exploration Tool: A Blind’s Eye”, IJCSIT, Vol 6(3) pp. 2819-2822 (2015)
- [41] Avinash, Nayaneesh, **D. K. Singh**, D S Kushwaha, “Test case Reduction through Prioritization Technique”, International Journal of Mathematical & Computational Sciences, Vol 1, Issue 1(2014), pp 12-16

Conference Proceedings

- [1] Lalit Kumar, **D. K. Singh**, “Efficient 3D Object Synthesis and Modeling through Generative Adversarial Networks”, 16th KST - 2024, Burapha University, Krabi (Thailand), Feb 28 – March 02, 2024. [IEEE, **Scopus**]
- [2] Mayank Kumar Rusia and **D. K. Singh**, “Analyzing Some Efficient Deep Learners for Face Pose Estimation”, IEEE R10HTC-2023, Marwadi University Rajkot (India), 16-18 October 2023. [IEEE, **Scopus**]
- [3] Shivam Kashyap, Akash Gupta, Aquib Ansari, **D. K. Singh**, “Review of an Evolved DNN Architecture EfficientNet for Yoga Pose Detection Problem”, IEEE R10HTC-2023, Marwadi University Rajkot (India), 16-18 October 2023. [IEEE, **Scopus**]
- [4] Shruti Pallawi, **D. K. Singh**, “Detection of Alzheimer's Disease stages using Pre-trained Deep Learning approaches”, 5th IEEE International Conference on Cybernetics, Cognition and Machine Learning Applications (ICCCMLA), Germany, 7-8 October 2023. [IEEE, **Scopus**]
- [5] Lalit Kumar, **D. K. Singh**, “Performance Evaluation of Video-to-Video Synthesis GAN models on Cityscapes Dataset”, 14th ICCCNT - 2023, IIT Delhi, (India), 6-8 July 2023. [IEEE, **Scopus**]
- [6] Rakesh Kumar Rai, **D. K. Singh**, “Cognitive State Classification Using a Single-channel Headset: An EEG Analysis Approach”, 14th ICCCNT - 2023, IIT Delhi, (India), 6-8 July 2023. [IEEE, **Scopus**]
- [7] Lalit Kumar, **D. K. Singh**, “Comparative analysis of Vid2Vid and Fast Vid2Vid Models for Video-to-Video Synthesis on Cityscapes Dataset”, IC2E3 - 2023, NIT Uttarakhand, Srinagar Garhwal, Uttarakhand (India), 8-9 June 2023. [IEEE, **Scopus**]
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- [10] **D. K. Singh**, Aquib Ansari, Shruti Pallawi “Computer Vision based Visual Activity Classification through Deep Learning Approaches”, Tensymp-2022, IEEE Bombay Section, IIT Bombay, Mumbai (India), 01-03 July 2022. [IEEE, **Scopus**]
- [11] Lalit Kumar, **D. K. Singh**, “Analyzing Computational Response and Performance of Deep Convolution Neural Network for Plant Disease Classification using Plant Leave Dataset”, 10th IEEE CSNT-2021, OIST Bhopal (India), 18-19 June 2021. [IEEE, **Scopus**]
- [12] **D. K. Singh**, “3D-CNN based Dynamic Gesture Recognition for Indian Sign Language Modeling”, ACLing-2021, The British University in Dubai, Dubai (UAE), 04-05 June 2021. [Elsevier, **Scopus**]
- [13] Aquib Ansari, **D. K. Singh**, “An Expert Eye for Identifying Shoplifters in Mega Stores”, 4th ICICC-2021, University Of Delhi, New Delhi (India), 20-21 Feb 2021. [Springer AISC, **Scopus**]
- [14] **D. K. Singh**, Anshu Kumar, Aquib Ansari, “Robust Modelling of Static Hand Gestures using Deep Convolutional Network for Sign Language Translation”, ICCGIS-2021, Sharda University, Greater Noida (India), 19-20 Feb 2021. [IEEE, **Scopus**]
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Book Chapters

- [1] Lalit Kumar, **D. K. Singh**, Aquib Ansari “Role of Video Content Generation in Education Systems Using Generative AI.” Integrating Generative AI in Education to Achieve Sustainable Development Goals, edited by Ruchi Doshi et. al., IGI Global, 2024, pp. 354-368.
- [2] Aquib Ansari, **D. K. Singh**, “An Expert Eye for Identifying Shoplifters in Mega Stores”, Springer AISC Series, vol 1394, pp 107-115, 2021. [**SCOPUS, ISI Proceedings**]
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- [4] Mohd Ali Ansari, **D. K. Singh**, “Review of Deep Learning Techniques for Object Detection and Classification”, Springer CCIS series, Vol 839, pp 422-431, 2018 [SCOPUS, ISI Proceedings]
- [5] Neelam Dwivedi, **D. K. Singh**, “Review of Deep Learning Techniques for Gender Classification in images”, Springer AISC series, Vol 741, pp 1089-1099, 2018 [SCOPUS, ISI Proceedings] DOI: 10.1007/978-981-13-0761-4_102
- [6] **D. K. Singh**, D. S. Kushwaha, “Tracking movements of Human Being in a Real-Time Surveillance Scene”, Springer AISC series, Vol 437, pp 491-500, 2015 [SCOPUS, ISI Proceedings]
- [7] Tulika Mithal, Kshitij Shah, **D. K. Singh**, “Case Studies on Intelligent approaches for Static Malware Analysis”, Springer Singapore, ERCICA-2015 Vol 3, pp 555-567, 2015. [SCOPUS, ISI Proceedings]

Magazines

- [1] **D. K. Singh**, An article titled “Understanding Machine Vision by Human Activity Recognition” in January 2018 issue of CSI Communications, Vol 41.10, Pg 31-32
- [2] **D. K. Singh**, An article titled “Medical Imaging & Processing” in September 2016 issue of CSI Communications, Vol 40.6, Pg 10-12
- [3] **D. K. Singh**, An article titled “Object Detection: A key component in Image & Video Processing” in September 2015 issue of CSI Communications, Vol 39.6, Pg 9-10

Total Paper published in SCI/SCIE Journal: 18

Total Paper published in Scopus indexed Journal: 21

Total Paper Published in Conference: 44

Total Paper Published as Book Chapters: 7

Total Articles Published in Magazines: 3