

Research Publications

Journal Papers

- [1] Lalit Kumar, **D. K. Singh**, “Effi3D-GAN for Semantic-Guided Video Generation with Spatiotemporal Consistency”, IEEE Transactions on Artificial Intelligence, Vol pp (May 2026) [Accepted, **Scopus Indexed, CiteScore=6.4**]
- [2] Rakesh Kumar Rai, **D. K. Singh**, Nikhil Anand Arya, “SleepXNet: DeepSeek-Guided Hybrid Transformer Model for Clinically Interpretable EEG-Based Sleep Stage Classification”, IEEE Transactions on Emerging Topics in Computational Intelligence, Vol pp (May 2026) [Accepted, **SCI Indexed, IF=6.5**]
- [3] Tanveer Ahmed, Aquib Ansari, **D. K. Singh**, Shahnawaz Ahmad, Arvind Mewada, “Emerging Trends in Vision Based Human Activity Recognition for Intelligent Video Surveillance”, Springer Discovery Computing, Vol : (April 2026) [Accepted, **SCI Indexed, IF=1.7**]
- [4] Rakesh Kumar Rai, **D. K. Singh**, Singh Rupal Hukampal, Rayan Hamza Alsisi, Ali Kashif Bashir, “PHYena–DurCRF: A Quantum-Inspired, Edge-Efficient Analytics Framework for Human-centric Wearable Sensing”, IEEE Transactions on Consumer Electronics, Vol pp (March 2026) [Preprint, **SCI Indexed, IF=10.9**]
- [5] Shruti Pallawi, **D. K. Singh**, “LEFF-ViT: A locally enhanced vision transformer framework for accurate Alzheimer’s Disease classification from brain MRI”, Psychiatry Research: Neuroimaging, Vol 358 pp 112155 (January 2026). [**SCI Indexed, IF=2.1**]
- [6] Singh Rupal Hukampal, Premlata Jena, **D. K. Singh**, “Modelling and control of a solar-driven PEM electrolyzer system with energy storage for decentralized hydrogen production” Journal of Power Sources, Vol 668 pp 239194 (December 2025) [**SCI Indexed, IF=7.9**]
- [7] Lalit Kumar, **D. K. Singh**, Neelendra Badal, Aquib Ansari “Extensive ProGAN: A Robust Model for Human Face Frontalization”, SPIE Journal of Electronic Imaging, Vol. 34.6 pp 063004-063004 (October 2025) [**SCI Indexed, IF=1.0**]
- [8] Lalit Kumar, **D. K. Singh**, “MotionBlend GAN: An approach for realistic video content creation with embedded approach for Human subjects”, Wiley Computer Animation and Virtual World, Vol 36.6 pp e70085 (October 2025) [**SCI Indexed, IF=1.7**]
- [9] Singh Rupal Hukampal, Premlata Jena, **D. K. Singh**, “Real-time Energy Management System for Standalone and Grid-connected Hybrid AC/DC Microgrid” IEEE Journal of Emerging and Selected Topics in Power Electronics, Vol 14.2 pp 2369-2382 (October 2025) [**SCI Indexed, IF=4.9**]
- [10] Ruchi Jaiswal, Aquib Ansari, Manish Dixit, **D. K. Singh**, Shahnawaz Ahmad “Advances in facial Expression Recognition Technologies for Emotion Analysis”, Springer Discovery Computing, Vol 28:203 (September 2025) [**SCI Indexed, IF=1.7**]

- [11] Rakesh Kumar Rai, **D. K. Singh**, “Stress Detection through Wearable EEG Technology: A Signal-Based Approach”, Computer and Electrical Engineering, Vol 126 pp 110478 (May 2025) [**SCI Indexed, IF=4.0**]
- [12] Mayank Kumar Rusia and Dushyant Kumar Singh, “A Novel Deep Transfer Learning based Approach for Face Pose Estimation” Cybernetics and Information Technologies, Vol 24.2 pp. 105-121 (April 2024) [**Scopus Indexed**]
- [13] 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**]
- [14] 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 Indexed**]
- [15] 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**]
- [16] 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**]
- [17] 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 37 pp. 20437-20450 (Nov 2023). [**SCI Indexed, IF=6.0**]
- [18] 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**]
- [19] 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**]
- [20] 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**]
- [21] 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**]
- [22] 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**]

- [23] 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**]
- [24] 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**]
- [25] Shruti Pallawi, **D. K. Singh**, “Review and Analysis of Deep Neural Network Models for Alzheimer's Disease Classification using Brain MRI”, Cognitive Computation and Systems, Vol 5.1 pp. 1-13 (Feb 2023). [**SCI Indexed, IF=1.3**]
- [26] 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**]
- [27] 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**]
- [28] 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**]
- [29] **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**]
- [30] 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**]
- [31] 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**]
- [32] 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**]
- [33] Aquib Ansari, **D. K. Singh**, “ESAR, An Expert Shoplifting Activity Recognition System”, Cybernetics and Information Technologies, Vol 22.1 pp. 190-200 (March 2022). [**Scopus Indexed**]
- [34] Neelam Dwivedi, **D. K. Singh**, D. S. Kushwaha, “Employing Data Generation for Visual Weapon Identification using Convolutional Neural Networks”, Springer Multimedia Systems, Vol 28.1 pp. 347-360 (October 2021) [**SCI Indexed, IF = 1.935**]
- [35] Mayank Kumar Rusia, **D. K. Singh**, “An Efficient CNN Approach for Facial Expression Recognition with Some Measures of Overfitting”, Springer International

Journal of Information Technology, Vol 13.6 pp. 2419-2430 (December 2021).
[Scopus Indexed]

- [36] Aquib Ansari, **D. K. Singh**, “An expert video surveillance system to identify and mitigate shoplifting in megastores”, Springer Multimedia Tools and Applications, Vol 81.16 pp. 22497-22525 (September 2021). [SCI Indexed, IF=2.757]
- [37] **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]
- [38] 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]
- [39] 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]
- [40] 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]
- [41] 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]
- [42] 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]
- [43] **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]
- [44] 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]
- [45] **D. K. Singh**, D. S. Kushwaha, “Automatic Intruder Combat System: A way to Smart Surveillance”, Defense Science Journal Vol 67.1 pp. 50-58 (January 2017). [SCI Indexed, IF=0.730] DOI : 10.14429/dsj.67.10286
- [46] 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]
- [47] **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]

- [48] 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**]
- [49] **D. K. Singh**, D. S. Kushwaha, “ILUT based Skin Colour Modelling for Human Detection”, Indian Journal of Science and Technology, Vol 9.32 (2016) [**Scopus**]
- [50] **D. K. Singh**, “Dynamic Environment Exploration Tool: A Blind’s Eye”, IJCSIT, Vol 6(3) pp. 2819-2822 (2015)
- [51] 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] Rakesh Kumar Rai, **D. K. Singh**, “NestedSleepNet: Physiology-Guided Multi-Scale Learning with Hierarchical Temporal Memory for EEG Sleep Stage Classification”, 28th ICPR - 2026, Lyon (France), 17-22 August 2026. [Springer LNCS, **Scopus**]
- [2] Himanshu Pandey and **D. K. Singh**, “U-Net and its variant Models for Liver and Tumor Segmentation in CT Images”, 4th IEEE International Conference on IATMSI - 2026, ABV-IIITM Gwalior, 12-14 March 2026. [IEEE, **Scopus**]
- [3] Amit Yadav, Rajeev Agrawal, Kavita Lalwani, **D. K. Singh**, “Cognitive Computing-Based Robot for Teaching and Learning”, In: Bhiradi, I., Machado, J. (eds) Intelligent Control, Robotics, and Industrial Automation. RCAAI 2024. Lecture Notes in Electrical Engineering, vol 1492. Springer, Singapore. [Springer, **Scopus**]
- [4] Singh Rupal Hukampal, Premlata Jena, **D. K. Singh**, “Real-time Implementation of Centralized Energy Management System for Radial Microgrid” IEEE 4th SILCON-2025, NIT Nagaland, 06-08 Nov 2025. [IEEE, **Scopus**]
- [5] Singh Rupal Hukampal, Premlata Jena, **D. K. Singh**, “Review of Centralized, Decentralized and Hierarchical Energy Management System of Microgrid” IEEE UPWIECON-2025, NIELIT Dehradun, 30-31 Oct 2025. [IEEE, **Scopus**]
- [6] Shruti Pallawi, **D. K. Singh**, Abhimanyu Sahu, “Deep Learning based anatomical brain segmentation and classification of Alzheimer’s stages using multi-facet features”, 22nd ICWAPR, Bali (Indonesia), 12-15 July 2025. [IEEE, **Scopus**]
- [7] Pawanesh Kumar Vishwakarma, **D. K. Singh**, Abhimanyu Sahu, “Action Recognition from Egocentric Videos using RGB+ Depth modalities”, 6th RAIT2025, IIT ISM Dhanbad, 06-08 March 2025. [IEEE, **Scopus**]
- [8] A Bakhtiyar, Aquib Ansari, A Mewada, **D. K. Singh**, “From Pixels to People: Deep Learning Breakthroughs in Human Detection”, 16th CICN, Oriental University Indore (India), 22-23 December 2024. [IEEE, **Scopus**]

- [9] Ansh Mahendra Shrivastava, **D. K. Singh**, Rishabh Jain, Shreyansh Singh Chandel and Abhimanyu Sahu, "Enhanced ConvLSTM With Hierarchical Attention Scheme for Unusual Activity Detection in Classrooms or Laboratories", TENSYP-2024, IEEE Delhi Section, NSUT Delhi, (India), 27-29 September 2024. [IEEE, **Scopus**]
- [10] 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**]
- [11] 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**]
- [12] 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**]
- [13] 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**]
- [14] 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**]
- [15] 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**]
- [16] 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**]
- [17] Rakesh Kumar Rai, **D. K. Singh**, "EEG-Based Binary Classification of Brain State of Activities Level Using a Single-Sensor Headset", 2nd International Conference 'Women Researchers in Electronics and Computing - 2023', NIT Jalandhar, Punjab (India), 21-23 April 2023. [Springer, **Scopus**]
- [18] Aquib Ansari, **D. K. Singh**, "Deep-3DConvNet: A network to detect Abnormal Activities at Megastores", IBSSC-2022, IEEE section Mumbai, NIMS, Mumbai (India), 08-10 Dec 2022. [IEEE, **Scopus**]
- [19] **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**]
- [20] Lalit Kumar, **D. K. Singh**, "Analyzing Computational Response and Performance of Deep Convolution Neural Network for Plant Disease Classification using Plant Leaf Dataset", 10th IEEE CSNT-2021, OIST Bhopal (India), 18-19 June 2021. [IEEE, **Scopus**]

- [21] **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**]
- [22] 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**]
- [23] **D. K. Singh**, Anshu Kumar, Aquib Ansari, “Robust Modelling of Static Hand Gestures using Deep Convolutional Network for Sign Language Translation”, ICCIS-2021, Sharda University, Greater Noida (India), 19-20 Feb 2021. [IEEE, **Scopus**]
- [24] **D. K. Singh**, Sumit Paroothi, Mayank Kumar Rusia, Aquib Ansari, “Human Crowd Detection for City Wide Surveillance”, 3rd CoCoNet-2019, IIIT Kerala, Trivandrum (India), 18-21 Dec 2019 [**Elsevier, Scopus**]
- [25] Komal Bajaj, **D. K. Singh**, Aquib Ansari, “Autoencoders Based Deep Learner for Image Denoising”, CoCoNet-2019, IIIT Kerala, Trivandrum (India), 18-21 Dec 2019 [**Elsevier, Scopus**]
- [26] Neelam Dwivedi, **D. K. Singh**, D. S. Kushwaha, “An Approach for Unattended Object Detection through Contour Formation using Background Subtraction”, CoCoNet-2019, IIIT Kerala, Trivandrum (India), 18-21 Dec 2019 [**Elsevier, Scopus**]
- [27] Aquib Ansari, **D. K. Singh**, “An Approach for Human Machine Interaction using Dynamic Hand Gesture Recognition”, CICT-2019, IIIT Allahabad, Prayagraj, U.P. (India), 06-08 Dec 2019 [**IEEE, Scopus**]
- [28] Neelam Dwivedi, **D. K. Singh**, D. S. Kushwaha, “Weapon Classification using Deep Convolutional Neural Network”, CICT-2019, IIIT Allahabad, Prayagraj, U.P. (India), 06-08 Dec 2019 [**IEEE, Scopus**]
- [29] Mayank Kumar Rusia, **D. K. Singh**, Mohd. Aquib Ansari, “Human Face Identification using LBP and Haar-like features for Real-time Attendance Monitoring”, ICIIP-2019, JUIT Solan, H.P. (India), 15-17 Nov 2019 [**IEEE, Scopus**]
- [30] Saima Naz, **D. K. Singh**, “Review of Machine Learning Methods for Windows Malware Detection”, 10th ICCCNT – 2019, IIT Kanpur, Kanpur (India), 6-8 July 2019 [**IEEE, Scopus**]
- [31] Janpreet Singh, Harjeet Singh, **D. K. Singh**, “A Novel Approach based on Gesture Recognition through Video Capturing for Sign Language”, 2nd ICICICT – 2019, VJEC Kannur, Kerala (India), 5-6 July 2019 [**IEEE, Scopus**]
- [32] Singh Rupal H., S. R. Mohanty, Nand Kishor, **D. K. Singh**, “Comparison of Empirical Mode Decomposition and Wavelet Transform for Power Quality Assessment in FPGA”, PEDES-2018, IIT Madras, Chennai (India), 18-21 Dec 2018 [**IEEE, Scopus**]
- [33] **D. K. Singh**, “Human Action Recognition in Video”, ICAICR-2018, Shimla (India), 14-15 July 2018 [**Springer, Scopus**]

- [34] Mohd Ali Ansari, **D. K. Singh**, “Review of Deep Learning Techniques for Object Detection and Classification”, CNC-2018, ITM University, Gwalior (India), 22-24 March 2018 [**Springer, Scopus**]
- [35] Neelam Dwivedi, **D. K. Singh**, “Review of Deep Learning Techniques for Gender Classification in images”, ICHSA-2018, BML Munjal University, Gurgaon (India), 07-09 Feb 2018 [**Springer, Scopus**]
- [36] **D. K. Singh**, “Gaussian Elliptical Fitting based Skin Color Modeling for Human Detection”, ICSGRC-2017, UiTM, Kuala Lumpur, Malaysia, 04-05 August 2017 [**IEEE, Scopus**]
- [37] Utkarsh Ojha, Utsav Adhikari, **D. K. Singh**, “Image Annotation Using Deep Learning: A Review”, I2C2-2017, Karpagam College of Engineering, Coimbatore (INDIA), 23-24 June 2017 [**IEEE, Scopus**]
- [38] Sonu Sharma, Radhika Agrawal, Snehil Srivastava, **D. K. Singh**, “Review of Human Detection Techniques in Night Vision”, WiSPNET 2017, SSN College of Engineering, Chennai (INDIA), 22-24 March 2017 [**IEEE, Scopus**]
- [39] Anshuman Agarwal, Shivam Gupta, **D. K. Singh**, “Review of Optical Flow Technique for Moving Object Detection”, iC3I 2016, Amity University, Noida (INDIA), 14-17 Dec 2016 [**IEEE, Scopus**]
- [40] Pushkar P. Goswami, Diwakar Paswan, **D. K. Singh**, “Detecting moving objects in traffic surveillance video”, SCESM 2016, Noida (INDIA), 9-10 Sept 2016.
- [41] **D. K. Singh**, D. S. Kushwaha, “Analysis of face feature based human detection techniques”, SCESM 2016, Noida (INDIA), 9-10 Sept 2016.
- [42] Pushkar Protik Goswami, **D. K. Singh**, “A hybrid approach for real-time object detection and tracking to cover background turbulence problem”, Shannon100 3rd ICCS, LPU Jalandhar, Punjab (India), 8-9 April 2016
- [43] **D. K. Singh**, D. S. Kushwaha, “Tracking movements of Human Being in a Real-Time Surveillance Scene”, In proceedings of International Conference SocProS2015, IIT Roorkee, Saharanpur Campus (INDIA), 18-20 Dec 2015. [**Springer, Scopus**]
- [44] Kshitij Shah, **D. K. Singh**, “A Survey on Data Mining approaches for Dynamic Analysis of Malwares”, ICGCIoT-2015, GCET Gr Noida (India), 8-10 Oct 2015. [**IEEE, Scopus**]
- [45] Tulika Mithal, Kshitij Shah, **D. K. Singh**, “Case Studies on Intelligent approaches for Static Malware Analysis”, ERCICA-2015 Vol 3, NMIT Bangalore (India), 31 July – 1 Aug 2015. [**Springer**]
- [46] **D. K. Singh**, “Recognizing Hand Gestures for Human Computer Interaction”, ICCSP-2015, Melmaruvathur, TM (India), April 2015. [**IEEE, Scopus**]
- [47] Nikhil Singh, S S Bharti, Rupal Singh, **D. K. Singh**, “Remotely Controlled Home Automation System”, IEEE ICAETR-2014, Kanpur, India. [**IEEE**]
- [48] Avinash Gupta, Nayneesh Mishra, **D. K. Singh**, D. S. Kushwaha, “Test case Reduction through Prioritization Technique”, CCIT-2014, LONDON, UK

- [49] **D. K. Singh**, “Analyzing Use Case Models for Software Performance Prediction”, NUiCONE 2012, Ahmedabad (India). [IEEE]
- [50] Rupal Singh, **D. K. Singh**, “Simulation of D-Statcom for voltage fluctuation”, ACCT12, Rohtak (India), Jan 2012. [IEEE]
- [51] **D. K. Singh**, “From Use Case Model to Software Performance results: An SPE approach”, ACCT11, Rohtak (India), Jan 2011.
- [52] **D. K. Singh**, “Early Prediction of Performance of Software Systems”, 6th ADTECH-ITEM, GLAITM, Mathura, Feb 2010.
- [53] **D. K. Singh**, “Component-Based Size Measurement Method”, 5th International IT Conference, PCTE, Ludhiana (India), May 2009.

Book Chapters

- [1] Aquib Ansari, Ruchi Jayaswal A Mewada, **D. K. Singh**, Nagendra Singh “Nutrition Meets AI: Opportunities in Recommender Systems for Healthcare Choices”, Advancing Equity in Global Healthcare Systems, edited by Rajeev K. Agrawal et.al., IGI Global Scientific Publishing, 2026, pp. 401-431. [Scopus]
- [2] Lalit Kumar, Neelendra Badal, Aquib Ansari, Arvind Mewada, **D. K. Singh**, “Navigating Truth and Fiction: Generative AI Role in Modern Media Literacy”, Modern Media Literacy: Generative AI, Social Media and the News, edited by Tom Hallaq et. al., IGI Global Scientific Publishing, 2025, pp. 291-322.
- [3] 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 Scientific Publishing, 2024, pp. 354-368.
- [4] 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]
- [5] **D. K. Singh**, “Human Action Recognition in Video”, Advance Informatics for Computing Research, Springer Nature Singapore, Vol 955, pp 54-66, 2018 [SCOPUS, ISI Proceedings]
- [6] 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]
- [7] 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

- [8] **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**]
- [9] 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: 26

Total Paper published in Scopus indexed Journal: 21

Total Paper Published in Conference: 51

Total Paper Published as Book Chapters: 9

Total Articles Published in Magazines: 3