

Research Publications

Journal Papers

- [1] Shruti Pallawi, **D. K. Singh**, “Study of Alzheimer’s Disease Brain Impairment and methods for its early diagnosis: A Comprehensive Survey”, *Psychiatry Research: Neuroimaging*, Vol pp (January 2026). [Accepted, **SCI Indexed, IF=2.1**]
- [2] 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**]
- [3] Lalit Kumar, **D. K. Singh**, Neelendra Badal, Aquib Ansari “Extensive ProGAN: A Robust Model for Human Face Frontalization”, *SPIE Journal of Electronic Imaging*, (October 2025) [**SCI Indexed, IF=1.0**]
- [4] 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 pp (October 2025) [**SCI Indexed, IF=1.7**]
- [5] 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 pp (October 2025) [**SCI Indexed, IF=4.9**]
- [6] 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**]
- [7] Rakesh Kumar Rai, **D. K. Singh**, “Stress Detection through Wearable EEG Technology: A Signal-Based Approach”, *Computer and Electrical Engineering*, Vol pp (May 2025) [**SCI Indexed, IF=4.0**]
- [8] 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) [**Scopus Indexed**]
- [9] 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**]
- [10] 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**]
- [11] 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**]

- [12] 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**]
- [13] 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). [**SCI Indexed, IF=6.0**]
- [14] 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**]
- [15] 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**]
- [16] 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**]
- [17] 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**]
- [18] 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**]
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- [20] 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**]
- [21] 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**]
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- [25] **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**]
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- [28] 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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- [33] **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**]
- [34] 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**]
- [35] 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**]
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- [37] 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**]
- [38] 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**]
- [39] **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**]
- [40] 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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- [43] **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**]
- [44] 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**]
- [45] **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**]
- [46] **D. K. Singh**, “Dynamic Environment Exploration Tool: A Blind’s Eye”, IJCSIT, Vol 6(3) pp. 2819-2822 (2015)
- [47] 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

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- [1] 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**]

- [2] 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**]
- [3] 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**]
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- [5] 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**]
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- [7] 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**]
- [8] 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**]
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- [11] 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**]
- [12] 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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- [45] **D. K. Singh**, “Analyzing Use Case Models for Software Performance Prediction”, NUiCONE 2012, Ahmedabad (India). [**IEEE**]
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- [49] **D. K. Singh**, “Component-Based Size Measurement Method”, 5th International IT Conference, PCTE, Ludhiana (India), May 2009.

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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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: 17

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