

Research Publications

Journal Papers

- [1] 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**]
- [2] 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**]
- [3] 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**]
- [4] 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**]
- [5] 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**]
- [6] 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**]
- [7] 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**]
- [8] 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**]
- [9] 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**]
- [10] 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**]

- [11] 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**]
- [12] 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**]
- [13] 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**]
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- [15] 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**]
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- [35] **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**]
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- [41] **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**]
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- [3] 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**]
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- [9] 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**]
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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**]
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- [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

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