

Research Publications

Journal Papers

- [1] Pawanesh Kumar Vishwakarma, **D. K. Singh**, Abhimanyu Sahu, “DEFT-DPT: A Lightweight Multimodal Framework for Egocentric Video Action Recognition”, IEEE Transactions on Circuits and System for Video Technology, Vol pp (June 2026) [Accepted, **SCI Indexed, IF=10.8**]
- [2] Hemant Vishwakarma, **D. K. Singh**, Shruti Pallawi, “Single-Channel EEG-Based Sleep State Detection Using Spectral Features and Machine Learning”, Springer Life Cycle Reliability and Safety Engineering, Vol pp (May 2026) [Accepted, **Scopus Indexed, CiteScore=1.79**]
- [3] 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**]
- [4] 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**]
- [5] 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**]
- [6] 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**]
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- [8] 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**]
- [9] 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**]
- [10] 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**]

- [11] 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**]
- [12] 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**]
- [13] 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**]
- [14] 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**]
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- [19] 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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- [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**]
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- [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**]
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Magazines

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Total Paper published in SCI/SCIE Journal: 26

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Total Paper Published in Conference: 53

Total Paper Published as Book Chapters: 9

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