

SCHOOL OF SCIENCES AND EMERGING TECHNOLOGIES
PUBLICATIONS

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Title of the Publication	Type of Publication (Journal, Edited Book/Chapter), Page No. /Link	Year	Publisher	ISSN/ISBN	Indexing
A Brief Review of Advancements in Metaheuristic Optimization Algorithms: Theory, Applications, and Future Directions	Two Day All India Seminar On Latest Trends in Artificial Intelligence and Communication Book Chapter	2024	Organized by the Electronics & Telecommunication Engineering Division Board of the Institution of Engineers (India) by the Punjab & Chandigarh State Center	---	---
Optimizing Crop Planning in Haryana Using TLBO Algorithm: A Case Study	Two Day All India Seminar On Latest Trends in Artificial Intelligence and Communication Book Chapters	2024	Organized by the Electronics & Telecommunication Engineering Division Board of the Institution of Engineers (India) by the Punjab & Chandigarh State Center	---	---

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Title of the Publication	Type of Publication (Journal, Edited Book/Chapter), Page No. /Link	Year	Publisher	ISSN/ISBN	Indexing
A novel hybrid segmentation technique for identification of wheat rust diseases	Springer: Multimedia Tools and Applications	2024	springer	1380-7501	Scopus, WoS

CNN-based data augmentation for handwritten gurmukhi text recognition.	Springer: Multimedia Tools and Applications	2024	springer	1380-7501	Scopus, WoS
Advancing Pear Disease Recognition: A Hybrid CNN-Random Forest Approach	Book Chapter 3rd International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON)	2024	---	979-8-3503-1913-2	Scopus
Hybridizing CNN and SVM for Precise Arhul Flower Disease Diagnosis and Classification	2023 3rd Asian Conference on Innovation in Technology (ASIANCON), Ravet IN, India, 2023	2023	---	979-8-3503-0228-8	Scopus
Effective Disease Detection in Bean Leaves Using Deep CNN and SVM Ensemble	2023 3rd Asian Conference on Innovation in Technology (ASIANCON), Ravet IN, India, 2023	2023	---	979-8-3503-0228-8	Scopus
Gurmukhi handwritten word conversion using feature extraction using deep learning	2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE), Greater Noida, India, 2022,	2023	---	978-1-6654-3789-9	Scopus
An Efficient Speech Enhancement Approach for Punjabi Language Using Acoustic and Tonal Features	NeuroQuantology, 21(6), 1527, 2023	2023	NeuroQuantology	1303-5150	Scopus, WoS
Sustainable PRS: A hybrid DL-based parcel recognition approach	2023 14th International Conference on Computing Communication and Networking Technologies	2023	---	979-8-3503-3509-5	Scopus

	Book Chapter				
TDC: An MLP-based Sustainable DL Model for Oak Wilt Disease Classification	Second International Conference on Augmented Intelligence and Sustainable Systems (ICAISS), Trichy, India, 2023 Book Chapter	2023	---	979-8-3503-2579-9	Scopus
Noise-Robust Gender Classification System Through Optimal Selection of Acoustic Features	Kadyan, V., Singh, A., Laith, A., Mittal, M., (ed.) Deep Learning Approaches for Spoken and Natural Book Chapter	2022	---	978-3-030-79777-5	Scopus
Analysing moderators and critical factors that affect early childhood education with the usage of touchscreen contrivances: A hybrid fuzzy AHP—fuzzy TOPSIS approach.	Springer: Education and Information Technologies	2022	springer	1360-2357	Scopus, WoS
An empirical study to design an effective agile knowledge management framework	Springer: Multimedia Tools and Applications	2022	springer	1380-7501	Scopus, WoS
Automatic speech recognition systems: A survey of discriminative techniques	Springer: Multimedia Tools and Applications	2022	springer	1380-7501	Scopus, WoS
. Prosody features based low resource Punjabi children ASR and T-NT classifier using data augmentation	Springer: Multimedia Tools and Applications	2022	springer	1380-7501	Scopus, WoS
Computational Intelligence in Processing of Speech Acoustics: A Survey	Complex and Intelligent Syst	2022	springer	2198-6053	Scopus, WoS
Automatic Speech Recognition in English Language: A Review	Kadyan, V., Singh, A., Laith, A., Mittal, M., (ed.) Deep Learning Approaches for Spoken and Natural Book Chapter	2022	---	978-3-030-79777-5	Scopus

Study on State-Of-Art for Recognizing the Offline Handwritten Gurmukhi Work	SSRN, 2022 Book Chapter	2022	---	---	---
Usage of prosody modification and acoustic adaptation for robust automatic speech recognition (ASR) system	Revue d'Intelligence Artificielle	2021	Revue d'Intelligence Artificielle	1958-5748	Scopus, WoS
A comparison of Laryngeal effect in the dialects of Punjabi language	J Ambient Intell Human Comput,	2021	Springer	1868-5145	Scopus, WoS
Developing children's speech recognition system for low resource Punjabi language	Applied Acoustics	2021	Elsevier	0003-682X	Scopus, WoS
Research insight of Indian tonal languages: A review	In Artificial Intelligence and Speech Technology: Proceedings of the 2nd International Conference on Book Chapter	2021	---	9781003150664	Scopus
Classification approaches for automatic speech recognition system, Artificial Intelligence and Speech Technology	Artificial Intelligence and Speech Technology, Ed. Amita Dev, Arun Sharma, S. S. Agarwal, CRC Press Book Chapter	2021	---	9781003150664	---
Precision Agriculture: Guava Disease Diagnosis via CNN and Random Forest	3rd International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON) Book Chapter	---	---	979-8-3503-1913-2	Scopus
Gem ID: A Hybrid CNN-Random Forest Approach for Accurate Gemstone Identification	3rd International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON) Book Chapter	---	---	979-8-3503-1913-2	Scopus
Machine Learning for Edge Computing: Frameworks, Patterns and Best Practices.	CRC Press. 9780367694326, 2022 Book Edited	---	---	9780367694326	---

Deep Learning approaches for Spoken and Natural Language Processing	Ed. Virender Kadyan, Amitoj Singh, Mohit Mittal, Laith Abualigah, Springer, 978-3-030-79778-2, 2021 Book Edited	---	---	978-3-030-79777-5	Scopus
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Title of the Publication	Type of Publication (Journal, Edited Book/Chapter), Page No. /Link	Year	Publisher	ISSN/ISBN	Indexing
A blockchain-based privacy-preserving and access- control framework for electronic health records management	Multimedia Tools and Applications	03/2024	Springer	1573-7721	Scopus, WoS
Node Multi-Attribute Network Community Healthcare Detection Based on Graphical Matrix Factorization	Journal of Circuits, Systems and Computers	2024	World Scientific	1793-6454	Scopus, WoS
Artificial Intelligence for Air Quality Monitoring and Prediction	CRC Press (Taylor and Francis) Book	2024	Taylor and Francis	9781032683799	Scopus
APO-AN feature selection based Glorot Init Optimal TransCNN landslide detection from multi source satellite imagery	Multimedia Tools and Applications	2024	Springer	1573-7721	Scopus, WoS
3-D spatial correlation model for reducing the transmitting nodes in densely deployed WSN	Microprocessors and Microsystems	2023	Elsevier	1872-9436	Scopus, WoS
ASXC2 Approach: A Service-X Cost Optimization Strategy Based on Edge Orchestration for IIoT	IEEE Transactions on Industrial Informatics	2023	IEEE	1941-0050	Scopus, WoS
The Impact of COVID-19 on Remote Work: An Examination of Home-Based Work Consequences	International Journal of Modern Research	2023	IJMORE	36411552	---
Early diagnosis and meta-agnostic model visualization of tuberculosis based on radiography images	Scientific Reports	2023	Nature (Springer)	2045-2322	Scopus, WoS

UAV-Assisted Partial Co-Operative NOMA Based Resource Allocation in C2VX and TinyML Based Use Case Scenario	IEEE Internet of Things	2023	IEEE	2372-2541	Scopus, WoS
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Title of the Publication	Type of Publication (Journal, Edited Book/Chapter), Page No. /Link	Year	Publisher	ISSN/ISBN	Indexing
Comparison of Proposed Intelligent Systems with Existing Models for Monitoring Heart Diseases	Journal of Information Systems Engineering & Management	2024	---	2468-4376,	Scopus