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Center for Equitable Artificial Intelligence and Machine Learning Systems

2025 Publications

Publication

TITLE	AUTHOR	JOURNAL/ CONFERENCE	DATE	LINK
Evaluating Network Intrusion Detection Models for Enterprise Security: Adversarial Vulnerability and Robustness Analysis	Vahid Heydari, Kofi Nyarko	27th International Conference on Enterprise Information Systems	January	https://www.scitepress.org/PublishedPapers/2025.
An optimized ensemble grey wolf-based	A. Saleh, A. H. Rabie, S. E. EISayyad, A.	Scientific Reports		https://www.nature.com/article DOI: https://doi.org/10.1038/s41598-025-87455-C

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	TITLE	AUTHOR	JOURNAL/ CONFERENCE	DATE	LINK
	pipeline for monkeypox diagnosis	Takieldeen, and F. Khalifa			
	Explainable MRI-based ensemble learnable architecture for Alzheimer's Disease detection	O.T. Adeniran, B. Ojeme, T. Ajibola, O. E. Peter, A. O. Ajala, M. Rahman, and F. Khalifa	Algorithms	March	https://www.mdpi.com/1999-4893/18/3/163 DOI: https://doi.org/10.3390/a18030163
	Vulnerability Analysis of Vision backbone networks: A retrospect on transfer learning	Chukwuemeka Duru, Kofi Nyarko, Emmanuel Masa-Ibi	Future of Information and Communication Conference 2025	March	https://link.springer.com/chapter/10.1007/978-3-0-085363-0_32
	Algorithmic Bias Detection: A Focus on Skin Tone and Gender Fairness in Computer Vision Models	Happy Iguare, Peter Taiwo	2025 IEEE Symposium on Trustworthy, Explainable and Responsible Computer Intelligence	March	

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	AI Biases as Asymmetries: A Review to Guide Practice	Gabriella Waters, Phillip Honenberger	ArXiv.CS	March	
	Bias Recognition and Mitigation Strategies in Artificial Intelligence Healthcare Applications	Fereshteh Hasanzadeh, Colin B. Josephson, Gabriella Waters, Demilade Adedinsewo, Zahra Azizi, James A. White	npj Digital Medicine	March	
	Explainable MRI-Based Ensemble Learnable Architecture for Alzheimer's Disease Detection	Opeyemi Taiwo Adeniran, Blessing Ojeme, Temitope Ezekiel Ajibola, Ojonugwa Oluwafemi Ejiga Peter, Abiola Olayinka Ajala, Md Mahmudur Rahman, Fahmi Khalifa	MDPI	March	
	LS Channel Estimation	Funmilola Akeju, Arlene	Conference on Information	March	
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and SIC Equalization of Mixed Signals for a MIMO-OFDM System	Cole-Rhodes	Science and Systems (CISS)		
SmartPattern: A Machine Learning Framework for Detecting Reentrancy Vulnerabilities in Blockchain Smart Contracts	Temitope Ajibola, Opeyemi Adeniran, Peter Taiwo	Conference on Information Science and Systems (CISS)	March	
Automated Traffic Video Analysis with a Modular Computer Vision Pipeline and SQL-Based Analytics	Tasmeer Alam, Kofi Nyarko	CISS	March	
Convolutional Neural Network Approach for Emitter Association Using Channel Identification	Michael Talley, Kofi Nyarko, Willie Thompson, Arlene Cole-Rhodes, Craig Scott	CISS	March	

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in a MIMO System Based on Propagation Features				View Paper
What is the Future of Work in the Generative AI Era? A Marxist and Ricardian Analysis	Larry Liu	TripleC	March	View Paper
FedAV: Federated learning for cyberattack vulnerability and resilience of cooperative driving automation	Guanyu Lin, Sean Qian, Zulqarnain Khattak*	Communications in Transportation Research	April	View Paper
Beam Pattern Optimization for Conformal Antennas Using Reinforcement Learning and Self-Attention Mechanism	Peter Taiwo, David Oyediran	SPIE Defense + Commercial Sensing (DCS)	April	View Paper



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Meta-reinforcement learning with minimum attention	Pilhwa Lee and Shashank Gupta	NIPS	May	Link
Liouville PDE-based sliced-Wasserstein flow for fair regression	Pilhwa Lee and Jayshawn Cooper	NIPS	May	Link
Leveraging YOLO Tagging and LLM-Based Action Recognition for Enhanced Video Surveillance	Anjolie Anthony, Kofi Nyarko, Emmanuel Masa-Ibi, David Nyarko	NeurIPS 2025	May	Link



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	Machine learning and deep learning based psoriasis recognition system: Evaluation, management, prognosis—where we are and the way to the future	N. Shehzadi, A. Rehman, S. Naz, S.Rehman, and F. Khalifa	Artificial Intelligence Review	June	View Article
	Mitigating Bias in Large Language Models Through Culturally-Relevant LLMs	Malur Narayan, John Pasmore, Elton Sampaio, Vijay Raghavan, Sayan Maity, Gabriella Waters, Ayanna Howard	IEEE Ethics 2025	June	View Article
	Automated Video Clustering and Annotation Software (AVCAS)	Chukwuemeka Duru, George Awad	CVPR 2025	June	View Article
	The Economic Precondition	Larry Liu	Labor and Employment	June	View Article



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TITLE	AUTHOR	JOURNAL/ CONFERENCE	DATE	LINK
of Voice: How a Universal Basic Income (UBI) Can Promote Workplace Democracy		Relations Association		



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