

Xuan-Thuy Vo

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UNIST, Ulsan, South Korea

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Current Employment

08/2026 – Current Postdoctoral Researcher, UNIST Vision and Learning (UVL) Lab, Graduate School of Artificial Intelligence, UNIST

Research Interests

Efficient vision Transformers and its application, Open-vocabulary semantic segmentation, Vision-Language Models, Multimodal large language models, Autonomous AI agents, and Latent World Models

Education

- 09/2018 – 02/2024 Ph.D., Department of Electrical, Electronic and Computer Engineering
University of Ulsan, Ulsan, South Korea
Supervisor: Kang-Hyun Jo
Thesis: *Efficient Vision Transformers for Object Recognition*
Committee: Hee-Jun Kang, Kang-Hyun Jo, Young-Soo Suh, Hyun-Doek Kang, Moon-Ho Jeong
- 09/2013 – 02/2018 B.Sc., Electrical and Electronic Engineering
Da Nang University of Science and Technology
Cumulative GPA: 3.36/4.0

Past Employment

- 03/2024 – 06/2026 Postdoctoral Researcher, University of Ulsan
Supervisor: Kang-Hyun Jo
- 09/2018 – 02/2024 Research assistant, University of Ulsan
Supervisor: Kang-Hyun Jo
- 06/2018 – 08/2018 Engineering intern, Samsung Electro-Mechanics Vietnam
- 06/2017 – 08/2017 Undergraduate intern, Truong Giang Electric JSC, DaNang, Vietnam
Supervisor: Nguyen Kim Anh

Awards

- 07/2025 Best Paper, HSI 2025
Paper: *Efficient Multi-scale Spatial Interactions for Visual Recognition Tasks*
- 08/2024 Best Paper Presentation, IWIS 2024
Paper: *Refining Attention Maps for Vision Transformer*
- Best Paper Award, IWIS 2023
Paper: *Hierarchical Vision Transformers with Shuffled Local Self-Attention*

08/2023

10/2022 Best Paper Award, MAPR 2022
Paper: *Balancing Multiple Object Tracking Objective based on Learned Weighting Factors*

02/2022 BK21 outstanding paper awards
For TH'22 and Neurocomputing'22

Publications

Google Scholar <https://scholar.google.com/citations?user=JutFp38AAAAAJ>

ORCID <https://orcid.org/0000-0002-7411-0697>

[C] denotes Conference, [J] denotes Journal

Peer-Reviewed Conference/Journal Papers

- [J13] Van-Dung Hoang, **Xuan-Thuy Vo**, Kang-Hyun Jo. “Dilated Multi-Layer Perceptrons Mixer for Faster Neural Networks.” In: *Neural Networks*. 2026. [pdf]
- [J12] Russo Ashraf, Adri Priadana, **Xuan-Thuy Vo**, Ge Cao, Tien-Dat Tran, Kang-Hyun Jo. “ESIFCD: A Dual-Temporal Cross-Domain Fusion Network for Remote Sensing Change Detection.” In: *IEEE Access*. 2025. [pdf]
- [J11] Ge Cao, Qing Tang, **Xuan-Thuy Vo**, Adri Priadana, Kanghyun Jo. “Optimal Proxy Mining Contrastive Network for Unsupervised Person Re-Identification.” In: *IEEE Transactions on Circuits and Systems for Video Technology*. 2025. [pdf]
- [J10] Ge Cao, Qing Tang, **Xuan-Thuy Vo**, Adri Priadana, Tran-Tien Dat, Kanghyun Jo. “Text-guided visual representation learning via cross-modal fusion for person re-identification.” In: *IEEE Access*. 2025. [pdf]
- [J9] Adri Priadana, Duy-Linh Nguyen, **Xuan-Thuy Vo**, Muhamad Dwisnanto Putro, Jehwan Choi, and Kang-Hyun Jo. “FARVIS: A Facial Attribute Recognizer based on Vision Sensor using Super-Efficient Network Supporting Service Robots.” In: *IEEE Sensor*. 2025. [pdf]
- [J8] Adri Priadana, Duy-Linh Nguyen, **Xuan-Thuy Vo**, Muhamad Dwisnanto Putro, Cao Ge, and Kang-Hyun Jo. “A High-Accuracy and Faster Face Recognizer Supporting Biometric Continuous Authentication for Smart Factory Workers.” In: *IEEE Transactions on Industrial Informatics*. 2025. [pdf]
- [J7] **Xuan-Thuy Vo**, Duy-Linh Nguyen, Adri Priadana, Ge Cao, Jehwan Choi, and Kang-Hyun Jo. “Local Self-Attention with Mixing Abstract Tokens for Urban Autonomous Driving.” In: *IEEE Transactions on Industrial Informatics*. 2025. [pdf]
- [J6] Adri Priadana, Duy-Linh Nguyen, **Xuan-Thuy Vo**, Jehwan Choi, Russo Ashraf, and Kang-Hyun Jo. “HFD-YOLO: Improved YOLO Network Using Efficient Attention Modules for Real-Time One-Stage Human Fall Detection.” In: *IEEE Access*. 2024. [pdf]
- [J5] Duy-Linh Nguyen, **Xuan-Thuy Vo**, Adri Priadana, and Kang-Hyun Jo. “An Efficient Detector for Automatic Tomato Classification Systems.” In: *IEEE Access*. 2024. [pdf]

- [J4] Duy-Linh Nguyen, **Xuan-Thuy Vo**, Adri Priadana, and Kang-Hyun Jo. “Car Detection for Smart Parking Systems Based on Improved YOLOv5.” In: *Vietnam Journal of Computer Science*. 2023. [\[pdf\]](#)
- [J3] Van-Dung Hoang, **Xuan-Thuy Vo**, and Kang-Hyun Jo. “Categorical weighting domination for imbalanced classification with skin cancer in intelligent healthcare systems.” In: *IEEE Access*. 2023. [\[pdf\]](#)
- [J2] **Xuan-Thuy Vo**, and Kang-Hyun Jo. “Accurate Bounding Box Prediction for Single-Shot Object Detection.” In: *IEEE Transactions on Industrial Informatics*. 2022. [\[pdf\]](#)
- [J1] **Xuan-Thuy Vo**, and Kang-Hyun Jo. “A Review on Anchor Assignment and Sampling Heuristics in Deep Learning-based Object Detection.” In: *Neurocomputing*. 2022. [\[pdf\]](#)
- [C61] Duy-Linh Nguyen, **Xuan-Thuy Vo**, Adri Priadana, Jehwan Choi, Kang-Hyun Jo. “Improved YOLOv11 Based on Attention and Extra Head Modules for Dental Disease Detection.” In: *Proceedings of IWIS*. 2025. [\[pdf\]](#)
- [C60] Adri Priadana, Duy-Linh Nguyen, **Xuan-Thuy Vo**, Ge Cao, Jehwan Choi, Kanghyun Jo. “Improved YOLO11-Based Weapon Detection Using Hybrid Ghost Bottleneck and Attention Module for Security Surveillance System.” In: *Proceedings of IWIS*. 2025. [\[pdf\]](#)
- [C59] **Xuan-Thuy Vo**, Duy-Linh Nguyen, Adri Priadana, Jehwan Choi, Kang-Hyun Jo. “Self-Attention with Spatial Decay Matrix Based on Inverse Multiquadric.” In: *Proceedings of IWIS*. 2025. [\[pdf\]](#)
- [C58] Thi-Kim-Anh Pham, Duy-Linh Nguyen, **Xuan-Thuy Vo**, Kang-Hyun Jo. “A Hybrid Vision Transformer and Convolutional Neural Network Architecture for Banana Leaf Disease Classification.” In: *Proceedings of HSI*. 2025. [\[pdf\]](#)
- [C57] Adri Priadana, Duy-Linh Nguyen, **Xuan-Thuy Vo**, Ge Cao, Jehwan Choi, Kanghyun Jo. “Efficiency-Accuracy Trade-Off of Facial Attribute Classifier Supporting Human-Robot Interaction.” In: *Proceedings of HSI*. 2025. [\[pdf\]](#)
- [C56] Duy-Linh Nguyen, **Xuan-Thuy Vo**, Adri Priadana, Jehwan Choi, Kang-Hyun Jo. “Efficient Human Behavior Detector for Vision-based Emergency Evacuation Systems.” In: *Proceedings of HSI*. 2025. [\[pdf\]](#)
- [C55] **Xuan-Thuy Vo**, Duy-Linh Nguyen, Adri Priadana, Jehwan Choi, Kang-Hyun Jo. “Efficient Multi-Scale Spatial Interactions for Visual Recognition Tasks.” In: *Proceedings of HSI*. 2025. 🏆 **Best Paper Award** [\[pdf\]](#)
- [C54] Kanghyun Jo, Jehwan Choi, Kwanho Kim, Seongmin Kim, Duy-Linh Nguyen, **Xuan-Thuy Vo**, Adri Priadana, Tien-Dat Tran. “Artificial Behavior Intelligence: Technology, Challenges, and Future Directions.” In: *Proceedings of HSI*. 2025. [\[pdf\]](#)
- [C53] Adri Priadana, Duy-Linh Nguyen, **Xuan-Thuy Vo**, Jehwan Choi, Kanghyun Jo. “Real-time facial attribute classifier using streamlined feature re-calibration module.” In: *Proceedings of ACIIDS*. 2025. [\[pdf\]](#)
- [C52] Duy-Linh Nguyen, **Xuan-Thuy Vo**, Adri Priadana, Jehwan Choi, Kang-Hyun Jo. “Vision-Based Human Fall Detection with Pre-trained YOLO Models: Comparison and Application.” In: *Proceedings of IW-FCV*. 2025. [\[pdf\]](#)
- [C51] Adri Priadana, Duy-Linh Nguyen, **Xuan-Thuy Vo**, Jehwan Choi, Ge Cao, Kang-Hyun Jo. “Personal Protective Equipment Detection Based on Improved YOLO11-Nano Using Multi-Perspective

- Attention.” In: *Proceedings of IW-FCV*. 2025. [pdf]
- [C50] **Xuan-Thuy Vo**, Duy-Linh Nguyen, Adri Priadana, and Kang-Hyun Jo. “Efficient Vision Transformers with Partial Attention.” In: *Proceedings of ECCV*. 2024. [pdf] (**Top-tier CV Conference**)
- [C49] Duy-Linh Nguyen, **Xuan-Thuy Vo**, Adri Priadana, Jehwan Choi, Kang-Hyun Jo. “Improved Tomato Detector Supporting for Automatic Harvesting Systems.” In: *Proceedings of CITA*. 2024. [pdf]
- [C48] Jehwan Choi, Duy-Linh Nguyen, **Xuan-Thuy Vo**, Kang-Hyun Jo. “Small Object Detection Without Attention for Aerial Surveillance.” In: *Proceedings of CITA*. 2024. [pdf]
- [C47] **Xuan-Thuy Vo**, Duy-Linh Nguyen, Adri Priadana, Jehwan Choi, Kang-Hyun Jo. “Multi-Scale Convolutions Meet Group Attention for Dense Prediction Tasks.” In: *Proceedings of CITA*. 2024. [pdf]
- [C46] Adri Priadana, Duy-Linh Nguyen, **Xuan-Thuy Vo**, Jehwan Choi, and Kang-Hyun Jo. “Wider neighborhood-aware attention in improving yolov8n for one-stage human fall detection.” In: *Proceedings of IECON*. 2024. [pdf]
- [C45] **Xuan-Thuy Vo**, Duy-Linh Nguyen, Adri Priadana, and Kang-Hyun Jo. “Refining Attention Maps for Vision Transformer.” In: *Proceedings of IWIS*. 2024. 🏆 **Best Presentation Paper** [pdf]
- [C44] Adri Priadana, Duy-Linh Nguyen, **Xuan-Thuy Vo**, Cao Ge, and Kang-Hyun Jo. “Facial Attribute Recognition Using Weighted Bottleneck Transformer for Intelligent Marketing.” In: *Proceedings of IWIS*. 2024. [pdf]
- [C43] Duy-Linh Nguyen, **Xuan-Thuy Vo**, Adri Priadana, Duc-Vuong Nguyen, and Kang-Hyun Jo. “Simple Human Fall Surveillance System Based on Person Detection.” In: *Proceedings of IWIS*. 2024. 🏆 **Best Presentation Paper** [pdf]
- [C42] Adri Priadana, Duy-Linh Nguyen, **Xuan-Thuy Vo**, Russo Mohammad Ashraf Uddin, Kanghyun Jo. “EMPCNet: Facial Attribute Recognition Using Efficient Multi-Perspective Convolution for Human-Robot Interaction.” In: *Proceedings of HSI*. 2024. 🏆 **Best Presentation Paper** [pdf]
- [C41] Adri Priadana, Duy-Linh Nguyen, **Xuan-Thuy Vo**, Muhamad Dwisnanto Putro, Ge Cao, Kanghyun Jo. “Simultaneous Facial Age Group and Gender Recognition using Efficient Local-Global Attention Network for Intelligent Advertising.” In: *Proceedings of ISIE*. 2024. [pdf]
- [C40] **Xuan-Thuy Vo**, Duy-Linh Nguyen, Adri Priadana, and Kang-Hyun Jo. “Reweighting foveal visual representations.” In: *Proceedings of ISIE*. 2024. [pdf]
- [C39] Duy-Linh Nguyen, **Xuan-Thuy Vo**, Adri Priadana, Muhamad Dwisnanto Putro, Kang-Hyun Jo. “Fruit Ripeness Detector for Automatic Fruit Classification Systems.” In: *Proceedings of ISIE*. 2024. [pdf]
- [C38] Adri Priadana, Duy-Linh Nguyen, **Xuan-Thuy Vo**, Kanghyun Jo. “Human Facial Age Group Recognizer Using Assisted Bottleneck Transformer Encoder.” In: *Proceedings of IW-FCV*. 2024. 🏆 **Best Student Paper Award** [pdf]
- [C37] Duy-Linh Nguyen, **Xuan-Thuy Vo**, Adri Priadana, Kang-Hyun Jo, “Minor Object Recognition from Drone Image Sequence.” In: *Proceedings of IW-FCV*. 2024. 🏆 **Excellent Student Research Paper Award** [pdf]
- [C36] Adri Priadana, Muhamad Dwisnanto Putro, Jinsu An, Duy-Linh Nguyen, **Xuan-Thuy Vo**, Kang-Hyun Jo. “Facial Attribute Recognition Using Lightweight Multi-Label CNN-Transformer Architecture for Intelligent Advertising.” In: *Proceedings of IECON*. 2023. [pdf]

- [C35] Duy-Linh Nguyen, **Xuan-Thuy Vo**, Adri Priadana, Kang-Hyun Jo. “Vehicle Detector Based on Improved YOLOv5 Architecture for Traffic Management and Control Systems.” In: *Proceedings of IECON* 2023. [[pdf](#)]
- [C34] Tien-Dat Tran, **Xuan-Thuy Vo**, Ge Cao, Kang-Hyun Jo. “A Simple Yet Effective Data Augmentation for Human Pose Estimation.” In: *Proceedings of IWIS*. 2023. [[pdf](#)]
- [C33] Russo Mohammad Ashraf Uddin, **Xuan-Thuy Vo**, Adri Priadana, Kang-Hyun Jo. “Multi-Band Feature Fusion in Satellite Images for Land Cover Classification.” In: *Proceedings of IWIS*. 2023. [[pdf](#)]
- [C32] Duy-Linh Nguyen, **Xuan-Thuy Vo**, Adri Priadana, Kang-Hyun Jo. “Simultaneous Person, Face, and Hand Detector Based on Improved YOLOv5.” In: *Proceedings of IWIS*. 2023. [[pdf](#)]
- [C31] **Xuan-Thuy Vo**, Duy-Linh Nguyen, Adri Priadana, Kang-Hyun Jo. “Hierarchical Vision Transformers with Shuffled Local Self-Attentions.” In: *Proceedings of IWIS*. 2023. 🏆 **Best Paper Award** [[pdf](#)]
- [C30] Adri Priadana, Muhamad Dwisnanto Putro, Jinsu An, Duy-Linh Nguyen, **Xuan-Thuy Vo**, Kanghyun Jo. “Gender Recognizer based on Human Face using CNN and Bottleneck Transformer Encoder.” In: *Proceedings of IWIS*. 2023. [[pdf](#)]
- [C29] Duy-Linh Nguyen, **Xuan-Thuy Vo**, Adri Priadana, Kang-Hyun Jo. “Car Detector Based on YOLOv5 for Parking Management.” In: *Proceedings of CITA*. 2023. 🏆 **Best Paper Award** [[pdf](#)]
- [C28] **Xuan-Thuy Vo**, Jehwan Choi, Duy-Linh Nguyen, Adri Priadana, Kang-Hyun Jo. “Unifying Local and Global Fourier Features for Image Classification.” In: *Proceedings of ISIE*. 2023. [[pdf](#)]
- [C27] Adri Priadana, Muhamad Dwisnanto Putro, Duy-Linh Nguyen, **Xuan-Thuy Vo**, Kang-Hyun Jo. “Age Group Recognizer based on Human Face Supporting Smart Digital Advertising Platforms.” In: *Proceedings of ISIE*. 2023. [[pdf](#)]
- [C26] Adri Priadana, Muhamad Dwisnanto Putro, Duy-Linh Nguyen, **Xuan-Thuy Vo**, Kang-Hyun Jo. “Human face detector with gender identification by split-based inception block and regulated attention module.” In: *Proceedings of IW-FCV*. 2023. [[pdf](#)]
- [C25] Duy-Linh Nguyen, **Xuan-Thuy Vo**, Adri Priadana, Kang-Hyun Jo. “YOLO5PKLot: A Parking Lot Detection Network Based on Improved YOLOv5 for Smart Parking Management System.” In: *Proceedings of IW-FCV*. 2023. [[pdf](#)]
- [C24] **Xuan-Thuy Vo**, Duy-Linh Nguyen, Adri Priadana, Kang-Hyun Jo. “Dynamic Circular Convolution for Image Classification.” In: *Proceedings of IW-FCV*. 2023. [[pdf](#)]
- [C23] Tien-Dat Tran, **Xuan-Thuy Vo**, Duy-Linh Nguyen, Kang-Hyun Jo. “Combination of deep learner network and transformer for 3D human pose estimation.” In: *Proceedings of ICCAS*. 2022. [[pdf](#)]
- [C22] Adri Priadana, Muhamad Dwisnanto Putro, **Xuan-Thuy Vo**, Kang-Hyun Jo. “A facial gender detector on cpu using multi-dilated convolution with attention modules.” In: *Proceedings of ICCAS*. 2022. [[pdf](#)]
- [C21] **Xuan-Thuy Vo**, Tien-Dat Tran, Duy-Linh Nguyen, Adri Priadana, Kang-Hyun Jo. “Balancing Multiple Object Tracking Objectives based on Learned Weighting Factors.” In: *Proceedings of MAPR*. 2022. 🏆 **Best Paper Award** [[pdf](#)]
- [C20] Adri Priadana, Muhamad Dwisnanto Putro, **Xuan-Thuy Vo**, Kang-Hyun Jo. “An efficient face-based age group detector on a cpu using two perspective convolution with attention modules.” In: *Proceedings of MAPR*. 2022. [[pdf](#)]

- [C19] Duy-Linh Nguyen, Muhamad Dwisnanto Putro, **Xuan-Thuy Vo**, Tien-Dat Tran, Kang-Hyun Jo. “Fire warning based on convolutional neural network and inception mechanism.” In: *Proceedings of MAPR*. 2022. [[pdf](#)]
- [C18] **Xuan-Thuy Vo**, Tien-Dat Tran, Duy-Linh Nguyen, Kang-Hyun Jo. “A Study on Efficient Multi-task Networks for Multiple Object Tracking.” In: *Proceedings of IWIS*. 2022. [[pdf](#)]
- [C17] Duy-Linh Nguyen, Muhamad Dwisnanto Putro, **Xuan-Thuy Vo**, Tien-Dat Tran, Kang-Hyun Jo. “Robust hand detection based on convolutional neural network and attention module.” In: *Proceedings of IWIS*. 2022. [[pdf](#)]
- [C16] Tien-Dat Tran, **Xuan-Thuy Vo**, Duy-Linh Nguyen, Kang-Hyun Jo. “Efficient High-Resolution Network for Human Pose Estimation.” In: *Proceedings of IWIS*. 2022. [[pdf](#)]
- [C15] Van-Dung Hoang, **Xuan-Thuy Vo**, Khac-Anh Phu, Kang-Hyun Jo. “Fusion of Segmentation and Classification for Improving Skin Disease Diagnosis.” In: *Proceedings of GTSD*. 2022. [[pdf](#)]
- [C14] **Xuan-Thuy Vo**, Tien-Dat Tran, Duy-Linh Nguyen, Kang-Hyun Jo. “Multi-level feature reweighting and fusion for instance segmentation.” In: *Proceedings of INDIN*. 2022. [[pdf](#)]
- [C13] Tien-Dat Tran, **Xuan-Thuy Vo**, Duy-Linh Nguyen, Kang-Hyun Jo. “High-Resolution Network with Attention Module for Human Pose Estimation.” In: *Proceedings of ASCC*. 2022. [[pdf](#)]
- [C12] **Xuan-Thuy Vo**, Van-Dung Hoang, Duy-Linh Nguyen, Kang-Hyun Jo. “Pedestrian head detection and tracking via global vision transformer.” In: *Proceedings of IW-FCV*. 2022. [[pdf](#)]
- [C11] Duy-Linh Nguyen, Muhamad Dwisnanto Putro, **Xuan-Thuy Vo**, Kang-Hyun Jo. “Convolutional neural network design for eye detection under low-illumination.” In: *Proceedings of IW-FCV*. 2022. [[pdf](#)]
- [C10] Duy-Linh Nguyen, Muhamad Dwisnanto Putro, **Xuan-Thuy Vo**, and Kang-Hyun Jo. “Light-weight convolutional neural network for distracted driver classification.” In: *Proceedings of IECON*. 2021. [[pdf](#)]
- [C9] **Xuan-Thuy Vo**, Tien-Dat Tran, Duy-Linh Nguyen, Kang-Hyun Jo. “Regression-aware classification feature for pedestrian detection and tracking in video surveillance systems.” In: *Proceedings of ICIC*. 2021. [[pdf](#)]
- [C8] **Xuan-Thuy Vo**, Tien-Dat Tran, Duy-Linh Nguyen, Kang-Hyun Jo. “Dynamic multi-loss weighting for multiple people tracking in video surveillance systems.” In: *Proceedings of INDIN*. 2021. [[pdf](#)]
- [C7] Duy-Linh Nguyen, Muhamad Dwisnanto Putro, **Xuan-Thuy Vo**, Kang-Hyun Jo. “Triple detector based on feature pyramid network for license plate detection and recognition system in unusual conditions.” In: *Proceedings of ISIE*. 2021. [[pdf](#)]
- [C6] **Xuan-Thuy Vo**, Tien-Dat Tran, Duy-Linh Nguyen, Kang-Hyun Jo. “Stair-step feature pyramid networks for object detection.” In: *Proceedings of IW-FCV*. 2021. [[pdf](#)]
- [C5] Tien-Dat Tran, **Xuan-Thuy Vo**, Duy-Linh Nguyen, Kang-Hyun Jo. “Efficient Spatial-Attention module for human pose estimation.” In: *Proceedings of IW-FCV*. 2021. [[pdf](#)]
- [C4] Tien-Dat Tran, **Xuan-Thuy Vo**, Moahammad-Ashraf Russo, Kang-Hyun Jo. “Simple fine-tuning attention modules for human pose estimation.” In: *Proceedings of ICCCI*. 2020. [[pdf](#)]
- [C3] Lihua Wen, **Xuan-Thuy Vo**, Kang-Hyun Jo. “3d saccadenet: A single-shot 3d object detector for lidar point clouds.” In: *Proceedings of ICCAS*. 2020. [[pdf](#)]
- [C2] **Xuan-Thuy Vo**, Kang-Hyun Jo. “Enhanced feature pyramid networks by feature aggregation module

and refinement module.” In: *Proceedings of HSI*. 2020. [\[pdf\]](#)

[C1] **Xuan-Thuy Vo**, Lihua Wen, Tien-Dat Tran, and Kang-Hyun Jo. “Bidirectional non-local networks for object detection.” In: *Proceedings of ICCCI*. 2020. [\[pdf\]](#)

Professional Services

Session Chair ISIE 2024, IWIS 2024, HSI 2025, IWIS 2025

Webmaster ISIE 2024, IWIS 2024, IWIS 2023, IWIS 2022, IWIS 2020

Reviewer

Journal:

- IEEE Transactions on Industrial Informatics
- IEEE Access
- Expert Systems with Applications

Conference: IEEE IES Conferences (ISIE, IECON, HSI, IWIS)

Skills

Programming Language Python (Pytorch, Keras, TensorFlow), C++, Matlab, Javascript

Deployment Voice AI Agents

MLLMs (Multimodal Large Language Models) GPT4o, LLaVa, Qwen, LLaMa, MiniCPM,

MLLMs on HuggingFace

LLMs (Large Language Models) + Tool Calling ReAct, ReActCodeAgent, Langchain, LlamaIndex, SmolAgent