

Mohamed el amine Boudjoghra

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RESEARCH INTERESTS

3D point cloud segmentation / 3D diffusion / Compositional Visual Reasoning for 3D point clouds / Vision language models

EDUCATION

MSc in computer vision

Expected May 2024

Mohamed Bin Zayed University of Artificial Intelligence, Abu Dhabi, UAE

GPA: 3.9/4.0

MSc in control systems and automation

June 2022

Ecole Nationale Polytechnique, Algiers, Algeria

GPA: 15.48/20

PUBLICATIONS

Joint Known-Unknown Self-distillation for Open-world 3D Instance Segmentation | *Under review for CVPR 2024*

MEA Boudjoghra, J Lahoud, H Cholakkal, RM Anwer, S Khan, FS Khan

3D Indoor Instance Segmentation in an Open-World | *NeurIPS 2023*

MEA Boudjoghra, SK. Al Khatib, J Lahoud, H Cholakkal, RM Anwer, S Khan, FS Khan

3D Instance Segmentation via Enhanced Spatial and Semantic Supervision | *ICCV 2023*

SK. Al Khatib, MEA Boudjoghra, J Lahoud, FS Khan

State-Domain Equations and Their Quantum Computing Solution Based HHL Algorithm | *MMEP*

MEA Boudjoghra, SAS Daimellah, N Zioui, Y Mahmoudi, M Tadjine

HONORS & AWARDS

France, Paris | *ICCV DEI award*

2023

UAE, Abu Dhabi | *MBZUAI fully funded scholarship*

2022

Algeria, Algiers | *3rd place in the national engineering competition*

2020

PROJECTS

Visual Simultaneous Localization and Mapping on Lie groups | *(Code) (Report)*

2022

YOLOngv8: From Imbalanced to Accurate Object Detection in Long Tailed iSAID Dataset | *(Code) (Report)*

2023

Human Pose Estimation | *(Code) (Report)*

2022

Indoor localization and navigation for an autonomous drone |

2021

Arduino-based autonomous robot | *(Code)*

2021

WORK EXPERIENCE

Intern | *Inception Institute of Artificial Intelligence*

May 2023 - July 2023

Face swapping for videos

Graduate Assistant | *Mohamed Bin Zayed University of Artificial Intelligence*

August 2023 - Present

Advanced Computer Vision course (CV801) focusing on vision language models, generative AI, and object segmentation.

LANGUAGES

Arabic (Native)

English (IELTS 7)

Japanese (Intermediate)

French (Advanced)

DIGITAL SKILLS

PROGRAMMING LANGUAGES, FRAMEWORKS, and PYTHON LIBRARIES

Python | Minkowski Engine | Pytorch | Pytorch lightning | C++ | C | Matlab

SOFTWARE

MATLAB | Blender | Solidworks | Simulink | Siemens Step7, WinCC | Multisim | Proteus

HARDWARE

Raspberry Pi | Pixhawk 4 | px4flow | Arduino | ESP32