

Portfolio & Publications

A complete portfolio of patents, books, journal papers, and projects — 12+ years of computer vision and AI research at a glance.

Dr. Farshid Pirahansiah · pirahansiah.com

My Portfolio

- [Impact Portfolio](#)

Resume

- [Dr. Farshid Pirahansiah CV](#)

My Publications

My Patents (3)

- [A METHOD FOR AUGMENTING A PLURALITY OF FACE IMAGES WO2021060971A1](#)
- [SYSTEM AND METHOD FOR PROVIDING ADVERTISEMENT CONTENTS BASED ON FACIAL ANALYSIS WO2020141969A2](#)
- [A METHOD FOR DETECTING A MOVING VEHICLE WO2021107761A1](#)

My Books (2)

- [Computational Intelligence: From Theory to Application](#)
- [Camera Calibration and Video Stabilization Framework for Robot Localization — Springer](#)

My Journals (6)

- [Adaptive Image Thresholding Based on PSNR](#)
- [CHARACTER AND OBJECT RECOGNITION BASED ON GLOBAL FEATURE EXTRACTION](#)
- [GSFT-PSNR Global Single Fuzzy Threshold](#)
- [PEAK SIGNAL-TO-NOISE RATIO BASED ON THRESHOLD METHOD FOR IMAGE SEGMENTATION](#)
- [3D SLAM Simultaneous Localization And Mapping](#)
- [USING AN ANT COLONY OPTIMIZATION ALGORITHM](#)

My Conference Papers (11)

- [2D versus 3D Map for Environment Movement Objects](#)
- [Adaptive Image Segmentation Based on PSNR](#)
- [Classification Techniques Using Enhanced Geometrical Topological Feature Analysis](#)
- [Camera Calibration for Multi-Modal Robot Vision](#)
- [Character Recognition Based on Global Feature](#)
- [Handwritten Images Segmentation](#)

- [License Plate Recognition with Multi-Threshold Based on Entropy](#)
- [Multi-threshold Approach for License Plate Recognition](#)
- [Pattern Image Significance for Camera Calibration](#)
- [TafreshGrid Grid Computing](#)
- [My Conference Paper](#)

My Keynotes

- [LLMs Meet Computer Vision](#)

Content Hub

LLM

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- [Advanced LLM Concepts](#)
- [Blog: AI & LLMs](#)

CUDA & GPU

- [Numba JIT Tutorial](#)
- [PyCUDA Kernel Explanation](#)
- [CUDA in VS Code on Windows](#)
- [MLX, CoreML & Metal](#)

Computer Vision

- [3D Vision & Multi-Camera](#)
- [Optical Flow](#)
- [Real-Time Multi-Camera](#)

Optimization

- [CV/DL/ML Optimization](#)

Programming

- [C++ Quick Reference](#)
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Business & Career

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Images

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- [Under/Over Fit ML](#)