POORYAA CHERAAQEE

Computer Vision Researcher

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in https://www.linkedin.com/in/pooryaa-cheraaqee-8b66b2b6/   github.com/cheraaqee
🔗 https://scholar.google.com/citations?user=ebSTTkAAAAAJ&hl=en&oi=ao

EDUCATION

MSc Computer Science

Kharazmi University

📅 2016-2019   📍 Tehran, Iran

Thesis: A No-Reference Method for Assessing the Quality of Multiply Distorted Images

EXPERIENCES

HPC admin

Institute of Research in Fundamental Sciences

📅 Fall 2021- Present

Translator

Nashrafa On-Line Publishing Co.

📅 Summer 2019- Spring 2020

Instructor

- O.S. Lab, University of Guilan, Fall 2019
- T.A. for Computer Architecture Course- Prof. Ahmadifar
- T.A. for Algorithm Design Course- Prof. Moadab
- T.A. for Neural Networks Course- Prof. Mansouri- Current

Projects

- Quality Assessment of Screen Content Images- Iran National Science Foundation
- Face Recognition with Deep Learning, As a free-lancer
- Customized Object Detection with Deep Learning, As a free-lancer

PUBLICATIONS

- Cheraaqee, Pooryaa, Zahra Maviz, Azadeh Mansouri, and Ahmad Mahmoudi-Aznaveh. **"Quality Assessment of Screen Content Images in Wavelet Domain."** IEEE Transactions on Circuits and Systems for Video Technology (2021).
- Heydari, Maryam, Pooryaa Cheraaqee, Azadeh Mansouri, and Ahmad Mahmoudi-Aznaveh. **"A low complexity wavelet-based blind image quality evaluator."** Signal Processing: Image Communication 74 (2019): 280-288.
- Cheraaqee, Pooryaa, Azadeh Mansouri, and Ahmad Mahmoudi-Aznaveh. **"Incorporating Gradient Direction for Assessing Multiple Distortions."** In 2019 4th International Conference on Pattern Recognition and Image Analysis (IPRIA), pp. 109-113. IEEE, 2019.
- Motamednia, Hossein, Pooryaa Cheraaqee, and Azadeh Mansouri. **"Exploring the Gradient for Video Quality Assessment."** In 2020 International Conference on Machine Vision and Image Processing (MVIP), pp. 1-7. IEEE, 2020.
- Motamednia, Hossein, Mohammad Minouei, Pooryaa Cheraaqee, and Mohammad Reza Soheili. **"High-Resolution Document Image Reconstruction from Video."** In 2020 International Conference on Machine Vision and Image Processing (MVIP), pp. 1-7. IEEE, 2020.
- Arezoomand, Amirhoessein, Pooryaa Cheraaqee, Azadeh Mansouri. **Perceptually Optimized Loss Function for Image Super-Resolution** Submitted to 2021 7th International Conference on Signal Processing and Intelligent Systems, IEEE https://github.com/cheraaqee/popSR/

LOOKING FOR

" A chance to incorporate his knowledge, engineering skills, and passion for visual arts into a productive field of work or study "

SKILLS

- **Presenting and Explaining Concepts**
  Professional LaTeX user
- **Programming**
  Python, MATLAB (regular user), C/C++ (beginner)
- **Operating System**
  Regular Linux user
- **Neural Networks and Machine Learning**
  Keras, SciKit-Learn, and LibSVM
- **Image Processing**
  MATLAB IP toolbox and OpenCV-Python
- **Teamwork**
  Regular Git user
- **Math**
  Capable of modeling real-world problems with mathematical concepts

LANGUAGES

English (IELTS 7.5)   ●●●●○
Persian   ●●●●●

REFEREES

Dr. Azadeh Mansouri
@ a_mansouri@khu.ac.ir
✉ Department of Electrical and Computer Engineering, Faculty of Engineering Kharazmi University Tehran, Iran

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Dr. Ahmad Mahmoudi-Aznaveh
@ a_mahmoudi@sbu.ac.ir
✉ Cyberspace Research Institute, Shahid Beheshti University, Tehran, Iran