

Pooryaa Cheraaqee

Computer Vision Researcher

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on the web: Google Scholar, Git-Hub

Born on March 30th, 1992

Education

MSc Computer Science

Artificial Intelligence and Robotics

Kharazmi University, 2016-2019

Thesis:

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

Publications

- Cheraaqee, Pooryaa, Zahra Maviz, Azadeh Mansouri, and Ahmad Mahmoudi-Aznavah. **"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-Aznavah. **"A low complexity wavelet-based blind image quality evaluator."** Signal Processing: Image Communication 74 (2019): 280-288.
- Cheraaqee, Pooryaa, Azadeh Mansouri, and Ahmad Mahmoudi-Aznavah. **"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/>

Skills

- **Presenting and Explaining Concepts**
Professional L^AT_EX user
- **Programming**
Python, MATLAB (regular user), C/C++ (beginner)
- **Operating System**
Regular Linux user
- **English**
IELTS 7.5
- **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

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