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-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/

Skills

- **Presenting and Explaining Concepts**
  Professional LaTeX user

- **Programming**
  Python, MATLAB (regular user), C/C++ (beginner)

- **Operating System**
  Regular Linux user

- **English**
  Professional 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

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