

CSE464/564 – Digital Image Processing, Fall 2018-2019
Homework 3, 26/11/2018 v1

Rule 1: no plagiarism (from colleagues or other sources). Detected cases of plagiarism will lead to a significant penalty of your course grade at the end of the semester.

Rule 2: You are asked to write some methods, you can use C/C++/Java/Matlab/Python. You can use readily available software libraries for loading, creating, displaying image files, as well as for getting/setting pixel values and reading image dimensions. **Anything else you have to code it on your own!**

Rule 3: no late submissions! Learning to plan your schedule according to deadlines is part of your education and an invaluable professional skill.

What to submit: a) the source code of your methods and b) a well formatted report

Task 1 – Implement the jpeg compression algorithm. Code a program that first encodes a color image through jpeg, then decodes it, and finally calculates the mean squared error between the original image and the decoded image.

Good luck.