

ECE 6364 Spring 2016 HW 6 due 3/1

Problem 1.

Given a 64x64 image having 9 grey levels 0-8 and the histogram below, find the grey-scale mapping to equalize the histogram.

$$\vec{h} = [799 \quad 598 \quad 315 \quad 242 \quad 172 \quad 201 \quad 340 \quad 713 \quad 716]$$

Problem 2.

Given a 64x64 image having 9 grey levels 0-8 and the histogram $\vec{h}$ below, find the grey-scale mapping to modify the histogram according to the specified histogram $\vec{h}_s$

$$\vec{h} = [799 \quad 598 \quad 315 \quad 242 \quad 172 \quad 201 \quad 340 \quad 713 \quad 716]$$

$$\vec{h}_s = [0 \quad 114 \quad 228 \quad 341 \quad 455 \quad 569 \quad 683 \quad 796 \quad 910]$$