

Project #5 Color Image Processing
Due Thursday November 2nd

Color Image Enhancement by Histogram Processing

- (a) From the course Web site, [download](#) the dark-stream color picture in Fig. 6.35 (this image is labeled Fig. 6.35(05) and is given in jpg format). Convert the image to RGB. Histogram-equalize the R, G, and B images separately and convert the image back to jpg format.
- (b) Form an average histogram from the three histograms in (a) and use it as the basis to obtain a single histogram equalization intensity transformation function. Apply this function to the R, G, and B components individually, and convert the results to jpg.
- (c) Compare and explain the differences in the jpg images in (a) and (b).