

# EEC 511 Image Processing in VLSI

## Mini Project 1

Study the image (Project 1) particularly the lady in the foreground. The image was captured while she was walking, resulting in motion blurring artefacts.

1. Design the algorithm in MATLAB to restore this image by reducing blurring artefacts. Show all important mathematical formulations and summarise the algorithm using flowchart. Attach the m-file in the appendix.
2. Implement this algorithm in FPGA. Explain and discuss the RTL codes in your implementation. Attach the corresponding Verilog codes in the appendix.
3. Compare the results from MATLAB and FPGA simulations.