Along with noise, image blur is probably the most widespread reason for image degradation. It originates from a vast variety of sources, including atmospheric turbulences, out-of-focus blur and relative motion between cameras and objects. This challenging problem has been tackled by the scientific community for a long time [1]. In recent years, people are developing Convolution Neural Networks (CNNs) to learn deblurring/deconvolution schemes from data [2, 3].

Objective:
First, get yourself familiar with the literature on (non-) blind image deblurring. Try to re-implement a selected non-blind deconvolution method in Google’s Tensorflow and evaluate its performance. Finally, develop and implement a joint trainable multiscale (non-) blind image deblurring scheme.

Qualifications:
- Student of Biomedical Engineering, Information and Computer Engineering, Computer Science or Software Engineering and Management
- Basic knowledge in computer vision, machine learning and optimization
- Basic programming experience in Matlab/python and/or C++

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References
