





So let's summarize what had been covered in that lecture series about image filtering. We started with spatial filtering and the fundamental working principle of a filter. Up to now, you were exposed to point operations. There, the same mathematical operation was applied to the entire image. Each pixel was treated in the same way. Filters are taking the spatial surrounding of a pixel into account in order to calculate the outcome, the filtered image. Therefore filters are powerful tools in biomedical image analysis. You were exposed to linear and non-linear filters and we demonstrated how a mean, or median filter, can be used in order to smooth noisy images. Also the concept of Fourier filtering was introduced. These kind of filters are powerful tools when repetitive patterns in the image shall be suppressed. I hope we were able to convince you how powerful and important filters are in biomedical image analysis and I hope to see you again next week. Take care and good bye.

Notes

Summary



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