

42-731 Project Report 2

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Section A
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Part 1: Particle Feature Detection

B.2.1

B.2.2

Using a 5x5 mask detects noticeably fewer local extrema than using a 3x3 mask, as shown in Figures 1 and 2. This is because with a larger mask, the tested point is compared with a larger area of neighboring points, reducing its chances of being classified as a local extrema.

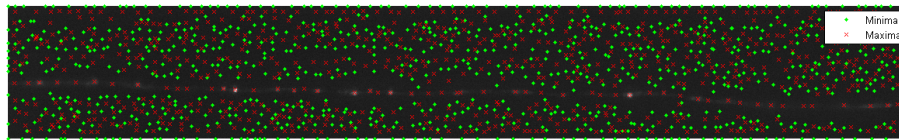


Figure 1: Local Extrema (3x3 mask)

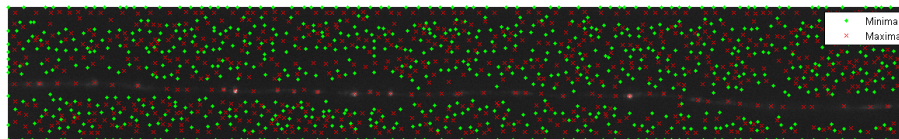


Figure 2: Local Extrema (5x5 mask)

B.2.3

B.2.4

Part 2: Sub-pixel Resolution Particle Detection

B.3.1

B.3.2