Programming Work (2)

1. Please make a program of histogram equalization for (1) global enhancement and (2) local enhancement. (Please use C++ based programming languages, don't use Matlab, LabVIEW, and other tools)

(1) Global Enhancement

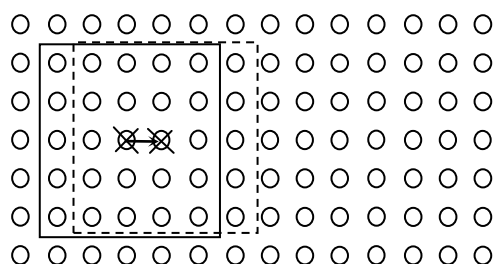| Color image | Gray image | HE image |

| Color image | Gray image | HE image |

(2) Local Enhancement

Please use 7x7, 11x11, 17x17, and 25x25 local processing of HE and show their output for comparison.

以示窗內之像素執行直方圖技術
只有中心像素值才用轉換函數取
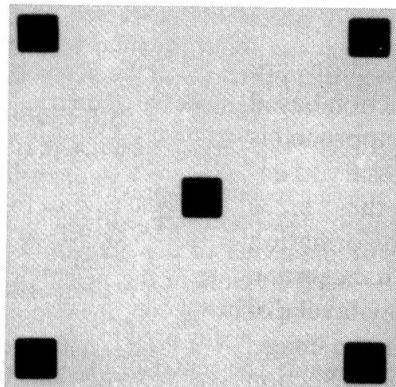代

Ex.

a. Original image.
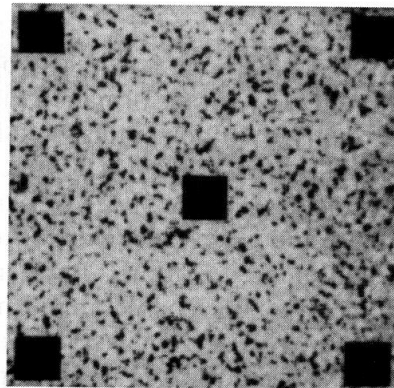

b. Image after global histogram equalization.

c. Image after local histogram equalization, window = 7 × 7.

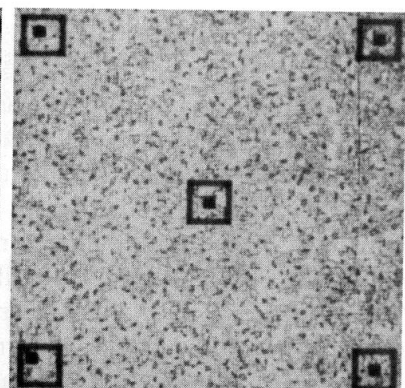d. Image after local histogram equalization, window = 15 × 15.

Original image   HE for global enhancement   HE for local enhancement