MAJORITY ORDERING FOR COLOUR MATHEMATICAL MORPHOLOGY (WedPmPO2)

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Abstract :

Binary and grayscale mathematical morphology have many applications in different domains. On the other hand, colour morphology is not widespread. The reason is the lack of a suitable colour ordering strategy that makes the extension of grayscale morphology to colour images not straightforward. We will introduce a new "majority sorting scheme" (MSS) that can be applied to binary, grayscale and colour images. It is based on the relative importance of each grayscale or colour present in the image, and has the advantage of being independent of the specific grayvalues or colour values. We will compare our ordering technique with a vector based ordering and show the advantages and disadvantages of both methods.

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