









#### IV. CONCLUSIONS

This study was conducted to process the image of a panoramic dental x-ray in shaping the image so that the quality of proximal caries information contained in it can be interpreted correctly by the human eye. Mechanisms used in this study utilizes algorithms that are well known in the image processing such as cropping, morphology dilation and morphology erosion as well as developing multiple morphology gradient algorithm. Development of algorithms performed better clarify dental x-ray image, making it easier to identify proximal caries.

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