Concordia University

COMP 473

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Dr. Ching Y. Suen

Project Report

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Identification of Facial Keypoints

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“We certify that this submission is our original work and meets the Faculty's Expectations of Originality”

Abstract:

This paper describes an algorithm used to detect facial key points, namely left/right: center, inner corner and outer corner of the eyes, right/left eyebrow inner corner and outer corner, the nose tip, and the mouth left/ right corners and the top and bottom center of the lips. To find these keypoints Paul Viola and Michael Jones’ methods are used.

Introduction:

Method

Experiment & Results

Analysis of Results

Discussion

Conclusion

References

Handbook of Pattern Recognition and Computer Vision, Edited by C. H. Chen and P. S. P. Wang, 3rd Edition, World Scientific Publishing Co., 2010.

Character Recognition Systems: A Guide for Students and Practitioners, by Mohamed Cheriet, Nawwaf Kharma, Cheng-Lin Liu, Ching Suen, Hoboken, New Jersey: John Wiley & Sons, Inc., 2007.

Robust Real-Time Object Detection, by Paul Viola, Michael Jones. International Journal of Computer Vision, 2001.