Title of the Project Report

EN2600 Project Course on Multimedia Signal Processing

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***Abstract*—Write a short abstract of your report. Write approximately 200 words about the problem that you are considering, about your approach to solve the problem, obtained results and the conclusion. This template provides instructions for writing the project reports for the EN2600-Project Course on Multimedia Signal Processing. You must use this document as both an instruction set and as a template into which you can type your own text. The template can be downloaded from the course website `http://www.ee.kth.se/sip/courses/EN2600/`. For questions on report template guidelines, please contact the teaching assistant in time as mention on the course website. Student should submit their final project report electronically in pdf format. Your report, including references, should fit in double column 5-10 A4-pages.**

I. Introduction

Give the technical background of the project and motivate the problem that you are considering. Support your discussion with technical references [1] and include a review of the literature [2], [3], [4] that is related to your research. Include a discussion of the present state of knowledge concerning the project/problem. Briefly explain your approach to solve the problem in contrast to the present state of knowledge. Briefly state your results in the conclusion. You should include one paragraph in the report about how you have organized your project report, for example, as described below:

The remainder of this report template is organized as follows: Section II gives instructions, how to write your project report. Section III gives instructions on how to present and discuss your project results. Finally, Section IV gives instructions on how to conclude your project report.

II. System Description

Describe and motivate, in detail, your approach to solve the problem. Give a description of the system that is implemented for finding a solution to the problem. Describe and motivate implemented algorithms.

III. Results

In this section, present and discuss your results that support your project goals as described in the project plan. Please use plots, figures, and tables for a better understanding of the obtained results. They should improve the understanding of your report. Present your results like in Fig. 1, which shows the histogram of $g(x, y) = f(x, y)+\eta(x, y)$ for a given image $f(x, y)$ and $\eta(x, y) = 0$.

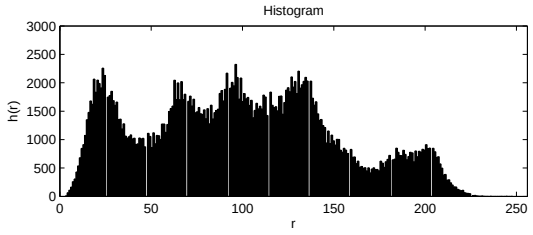

Fig. 1. Make sure to name the axis. In this figure the gray level is denoted r and $h(r)$ is the number of pixels with gray level r.

IV. Conclusion

Present your conclusions in this section. Remember that conclusions are not just another summary. The conclusion summarizes what you have done, states any difficulties, and concludes your report based on your results. Preferably, your conclusion is written in one paragraph.

Appendix

A. Who Did What

Describe in detail how the project work was divided among the group members. (Please, do not include any MatLab code that you have used or implemented during the project).

References

[1] R. C. Gonzalez and R. E. Woods, *Digital Image Processing*, 2nd ed. Upper Saddle River, NJ: Prentice Hall, 2002.

[2] M. Flierl and B. Girod, "A motion-compensated orthogonal transform with energy-concentration constraint," in *Proceedings of the IEEE Workshop on Multimedia Signal Processing*, Victoria, BC, Oct. 2006.

[3] ——, "A new bidirectionally motion-compensated orthogonal transform for video coding," in *Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing*, Honolulu, HI, Apr. 2007.

[4] D. Taubman, "High performance scalable image compression with EBCOT," *IEEE Transactions on Image Processing*, vol. 9, no. 7, pp. 1158–1170, July 2000.