CMP9135M — Computer Vision

1st George Davies
School of Computer Science
University of Lincoln
Lincoln, United Kingdom
27421138@students.lincoln.ac.uk

Abstract—
Index Terms—

TASK 1 — IMAGE PROCESSING

Task 1.a — Automated ball objects segmentation

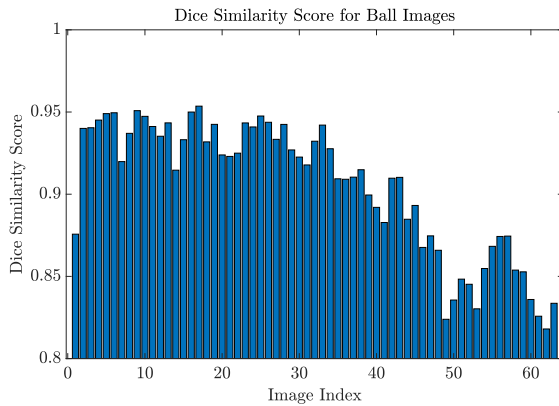*Task 1.b — Segmentation evaluation*

Fig. 1. Dice Similarity score for all 63 images

TASK 2 — FEATURE CALCULATION

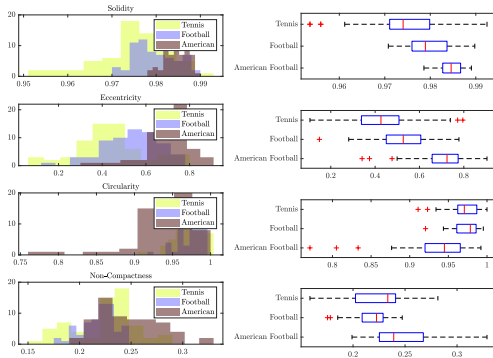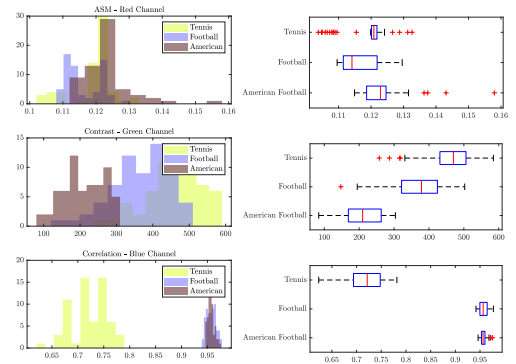*Task 2.a — Shape features*

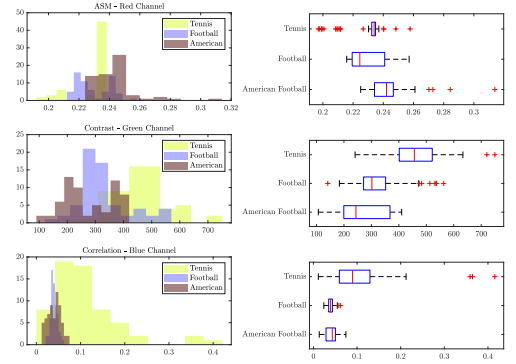Fig. 2. Shape features

Fig. 3. Texture features Averages

Fig. 4. Texture features Ranges

Task 2.b — Texture features

Task 2.c — Discriminative information

TASK 3 — OBJECT TRACKING

Task 3.a — Kalman filter tracking

Task 3.b — Evaluation

APPENDIX

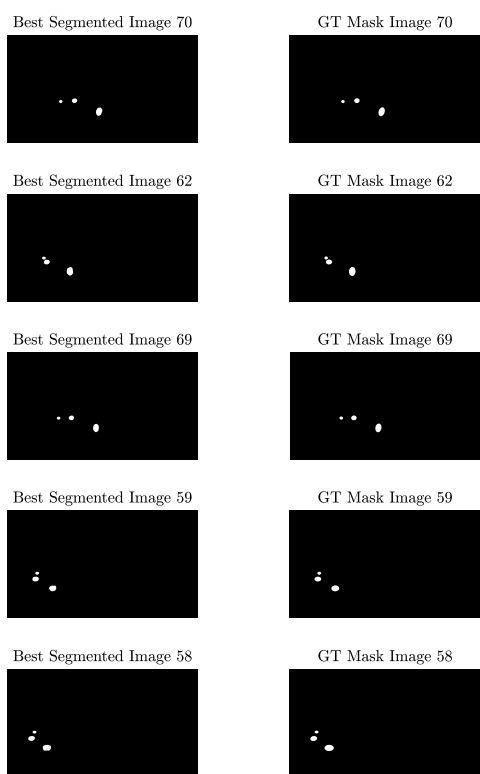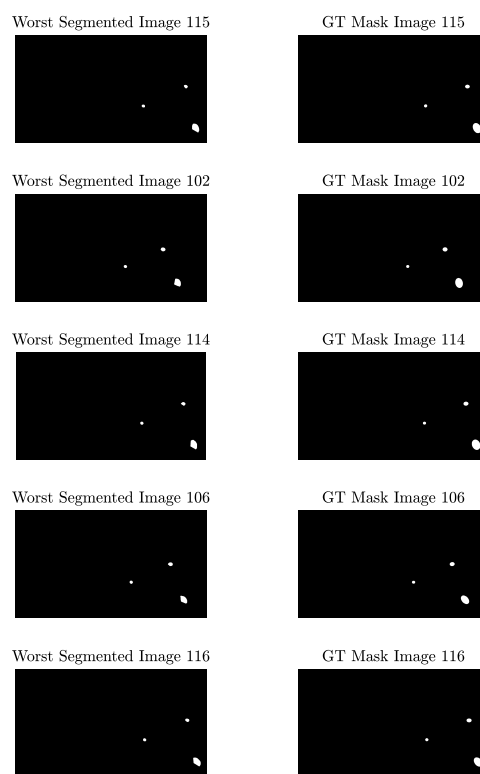Fig. 5. Best 5 segmented ball images compared to the ground truth

Fig. 6. Worst 5 segmented ball images compared to the ground trut