

Jersey Number Recognition: Improving Pipeline Performance for the SoccerNet Challenge

Presented by
Riley Eaton, Aidan Elliott, Jerry Fan

COSC 419/519: Deep Learning
University of British Columbia
Kelowna, BC
April 5, 2025

1 Introduction

[1]

2 Literary Review

3 System Design

3.1 Legibility and ViTpose

3.2 STR Model

3.2.1 Image Generation

3.2.2 Training Precision

3.3 Prediction Consolidation

4 Results

4.1 Initial Replication Results

4.2 Synthetic Generation Results

4.3 PARSeq64 Results

5 Discussion

5.1 Prediction Consolidation Oversight

6 Future Work

6.1 Improving Legibility

6.2 Improving Synthetic Generation

References

- [1] A. Aberdam, D. Bensaïd, A. Golts, R. Ganz, O. Nuriel, R. Tichauer, S. Mazor, and R. Litman, “CLIPTER: Looking at the Bigger Picture in Scene Text Recognition,” Jul. 2023, arXiv:2301.07464 [cs]. [Online]. Available: <http://arxiv.org/abs/2301.07464>