

Performance Comparison of Common Face Detection APIs using Video Stills from Professional Tennis Matches

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Abstract

This paper examines the effectiveness of facial detection APIs on broadcast video stills of Australian Open tennis matches. The goal is to determine the best API to use for face detection of players throughout a match. For training purposes, faces were manually tagged in 6406 images, using a specially constructed web application, recording the scene characteristics and features of individual faces, such as head wear or sunglasses. API performance was evaluated on their success rate at detecting the tagged faces, and also relative face and scene attributes.

Keywords: data science, sports analytics, shiny, R

*The authors gratefully acknowledge . . .

1 Introduction

This template demonstrates some of the basic latex you'll need to know to create a ASA article.

2 Verifications

This section will be just long enough to illustrate what a full page of text looks like, for margins and spacing.

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