

Project Proposal

Name of the Project: Venator

The URL of the project web page: <https://seljukat.github.io/venator/>

Names of the team members:

- Arda Uyaroglu
- Berker Tomaç
- Selçuk Akif Topkaya
- Utku Oktay

Names of the supervisor and jury members:

- Tolga Kurtuluş Çapın (**supervisor**)
- Venera Adanova (**jury**)
- Yücel Çimtay (**jury**)

1-2 paragraph description of the Project:

Applied statistics in football are becoming more important day by day and the inferences help the individual development of the football players and provide a better construction of the team and game plan. In order to obtain detailed information about the game and individual players, computer vision can be used to collect the required data accurately from the video recordings of the games.

Our project, which we will develop within this scope, aims to detect and track the football players with the help of computer vision techniques from the video recordings provided by stakeholders or captured by us, and then to compute some statistics such as distance covered, heat-map of the players and ball possession. Possible improvements and weaknesses of each player can be identified by the inferences made from the statistics provided. Such information may help trainers find areas for improvement in both the game and the players, by keeping track of their players' performance.