

Our main goal was to design an algorithm that would automatically evaluate robotic races from the video of the track's finish section. To solve this problem, we used various image processing methods and consequently proposed two different solutions that differ both in the expected input and the inner logic. The first algorithm can evaluate races of cars of an arbitrary appearance since it recognizes cars based on their reference photos. Although this solution proved to be working in all of our experimental recordings, we are aware of a few situations in which this algorithm could be prone to make mistakes. Therefore, we also came up with another algorithm that works more reliably in exchange for demanding cars to have unique color labels.