Outline

Introduction

Raytracing

Acceleration Algorithms

Bounding Volume Hierarchies

Kd-Tree Acceleration

Runtime Analysis

KI Introduction

Tensorflow

Datensatze (Experimente)

Models

Konvergenz Kurven

Accuracy & Speed

Practical Applications

Conclusion

Further Work

|  |  |
| --- | --- |
| Table | |
| True Positive (TP): | False Positive (FP): |
| False Negative (FN): | True Negative(TN): |

True positive – outcome where the model correctly predicts the positive class  
True negative – outcome where the model correctly predicts the negative class

False positive – outcome where the model incorrectly predicts the positive class  
False negative – outcome where the model incorrectly predicts the negative class

Accuracy = Number of correct predictions/Total number of predictions  
Prevision = TP / (TP+FP) (What proportion of positive identifications was actually correct?)  
Racall = TP/(TP+FN) (What proportion of actual positive was identified correctly?)  
  
ROC Curve & AUC

SOURCE:

<http://www.pbr-book.org/3ed-2018/Primitives_and_Intersection_Acceleration/Aggregates.html>

<https://developers.google.com/machine-learning/crash-course/>