GameStory: Video Game Analytics Challenge

Michael Wutti, 22.10.2018

Alpen-Adria-Universität Klagenfurt

Topic & Background

- MultiMediaEval 2018
- Video Game Streaming

Topic & Background

- Snipe.tv
- Counter Strike Global Offensive
 - Terrorist, Counter Terrorist
 - Best of 3 Matches

Training and Test Data

- Set of video streams, game logs and stream metadata
- Training Set
 - 2 days of tournament
 - 11 matches
- Test Set
 - 1 day of tournament
 - 4 matches
 - Stream meta data missing!

Dataset - Videos

- 12 video streams per tournamet day
 - 10 x Player view
 - 1 x Commentator's view
 - 1 x Game map
- Codec: H264 / MPEG-4 AVC
- Resolution: 640x360
- Duration of one video between 7h 12h
- Training set duration approx. 250h
- Test set duration approx. 130h

Dataset – Game Logs

- Includes events such as:
 - Player's purchases
 - Who killed whom?
 - Which weapon was used?
 - Which team has won?

Dataset – Game Logs - Examples

Dataset – Stream Meta Data

• 1 File for Training/Test Set

```
id, start time, duration, type, match id, perspective, stream file, stream timestamp, UTC timestamp
Ws92g,5930,3956,match,1,P2,2018-03-02 P2.mp4,01:38:50,2018-03-02 11:46:08+00:00
wBFTQ,5930,3956,match,1,P5,2018-03-02 P5.mp4,01:38:50,2018-03-02 11:46:08+00:00
sJqDN,5930,3956,match,1,P4,2018-03-02 P4.mp4,01:38:50,2018-03-02 11:46:10+00:00
ZWKdS,5930,3956,match,1,P8,2018-03-02 P8.mp4,01:38:50,2018-03-02 11:46:10+00:00
06PQc,5928,3956,match,1,P10,2018-03-02 P10.mp4,01:38:48,2018-03-02 11:46:10+00:00
NCUbo, 5930, 3956, match, 1, P3, 2018-03-02 P3.mp4, 01:38:50, 2018-03-02 11:46:11+00:00
XNDNy, 5930, 3956, match, 1, P6, 2018-03-02 P6.mp4, 01:38:50, 2018-03-02 11:46:11+00:00
MVP6K,5930,3956,match,1,P7,2018-03-02 P7.mp4,01:38:50,2018-03-02 11:46:11+00:00
Htoqq,5930,3956,match,1,P9,2018-03-02 P9.mp4,01:38:50,2018-03-02 11:46:11+00:00
GnGGQ, 5928, 3956, match, 1, P12, 2018-03-02 P12.mp4, 01:38:48, 2018-03-02 11:46:11+00:00
gI1T9,5932,3956,match,1,P1,2018-03-02 P1.mp4,01:38:52,2018-03-02 11:46:14+00:00
W5Fqn,2486,3956,match,1,P11,2018-03-02 P11.mp4,00:41:26,2018-03-02 11:46:17+00:00
1519993590388,4764,60,highlight,1,P11,2018-03-02 P11.mp4,01:19:24,2018-03-02 12:24:15+00:00
1519995087203,5012,45,highlight,1,P11,2018-03-02 P11.mp4,01:23:32,2018-03-02 12:28:23+00:00
1519995190510,6354,81,highlight,1,P11,2018-03-02 P11.mp4,01:45:54,2018-03-02 12:50:45+00:00
XS81t,10278,4530,match,2,P2,2018-03-02 P2.mp4,02:51:18,2018-03-02 12:58:36+00:00
AA3Dh, 10278, 4530, match, 2, P5, 2018-03-02 P5.mp4, 02:51:18, 2018-03-02 12:58:36+00:00
```

Video Summary - Methods

Video Summary - Methods

Video Summary - Methods

Schedule

References