

### AKADEMIA GÓRNICZO-HUTNICZA IM. STANISŁAWA STASZICA W KRAKOWIE

AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY





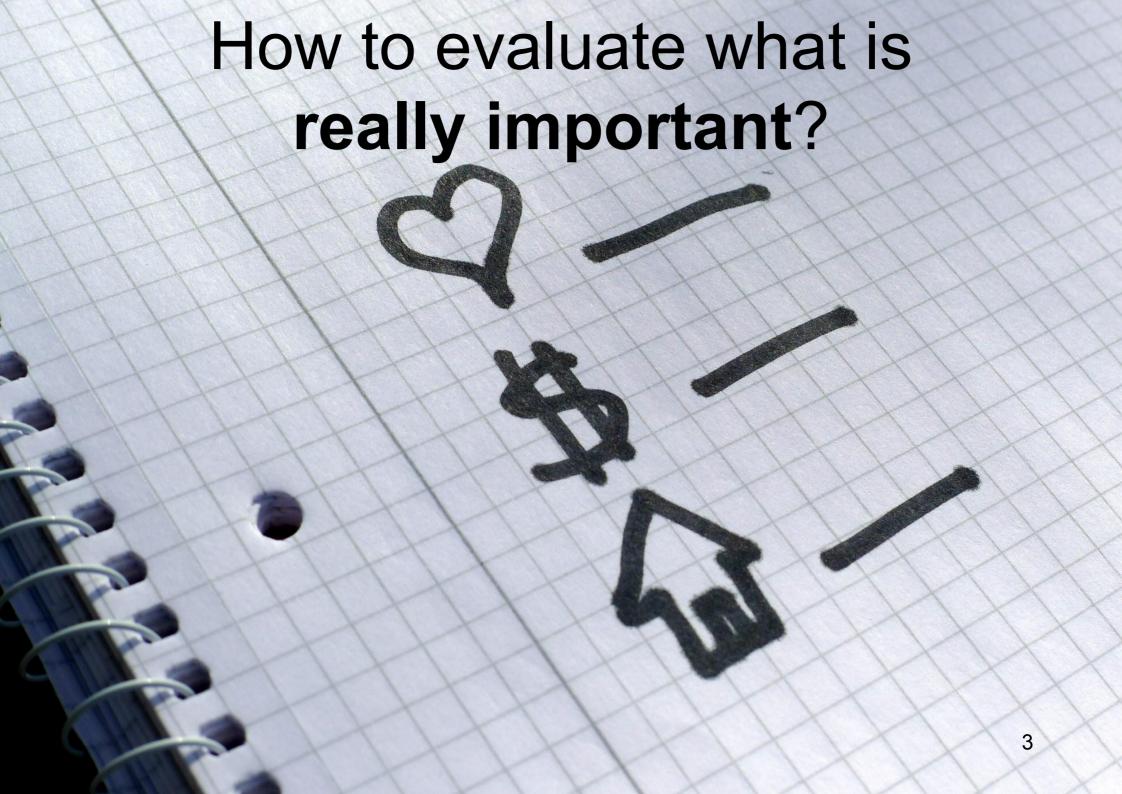
### "Evaluation of Multimedia Content Summarization Algorithms" Artur Komorowski, Lucjan Janowski, Mikołaj Leszczuk

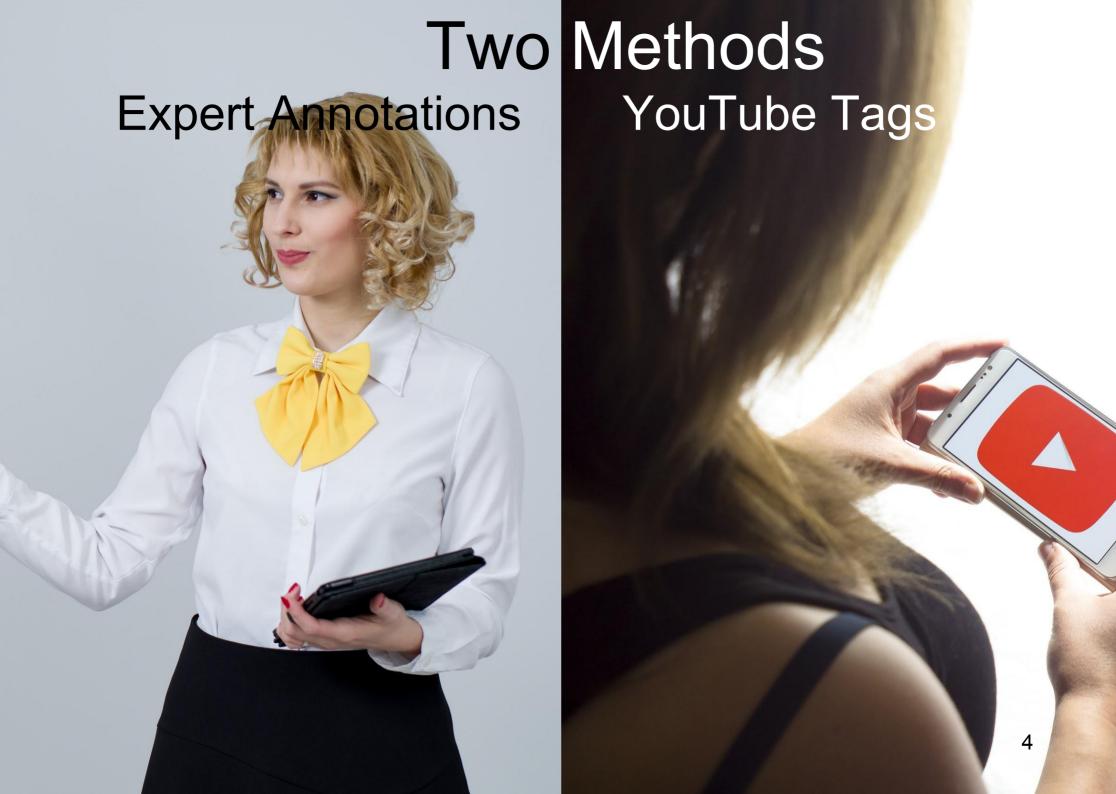
November 2018



VQEG



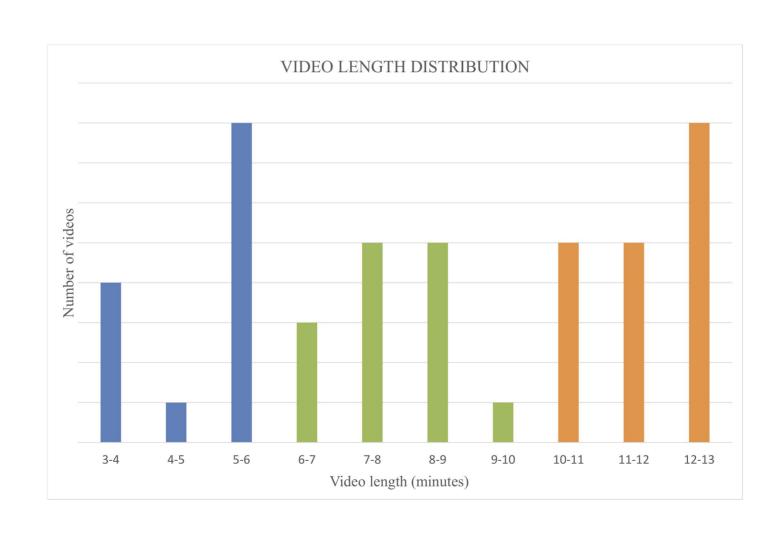








## Source Data

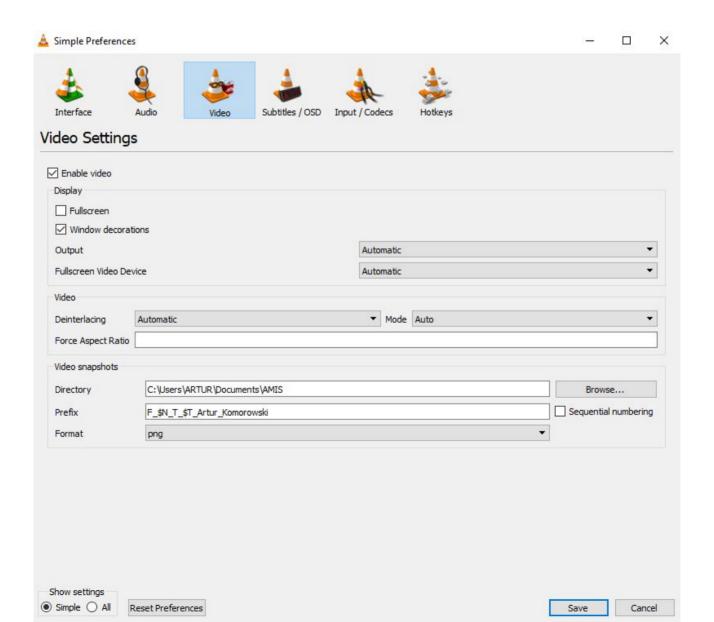








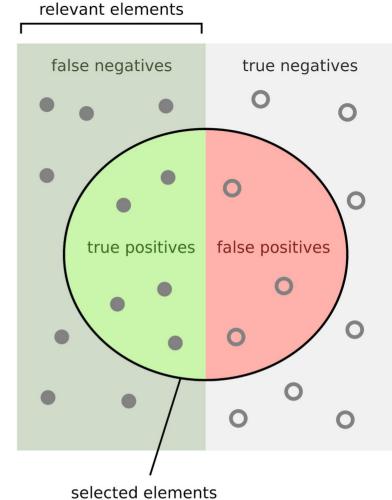
## **Annotation Procedure**

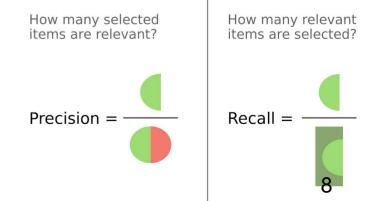




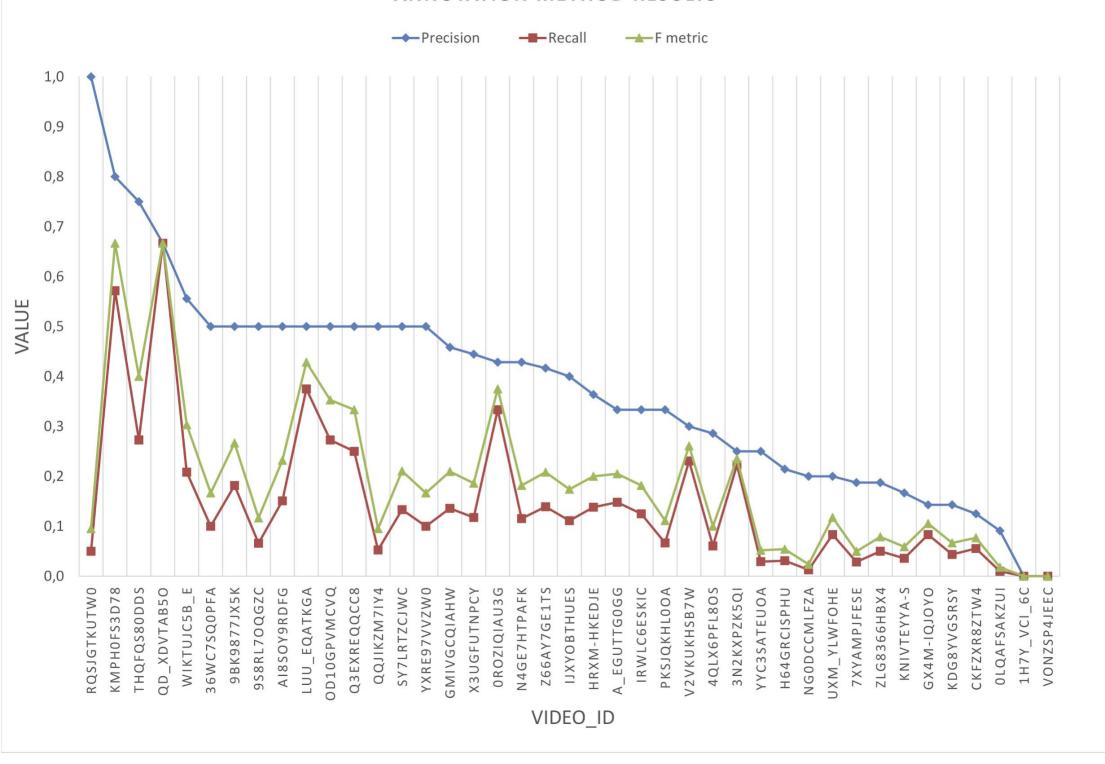
# Evaluation Algorithm

- » Checking if annotated shots in summary
- Metric: F₁ score
- » Harmonic average of Precision and Recall
- » 0 worst; 1 best





#### **ANNOTATION METHOD RESULTS**





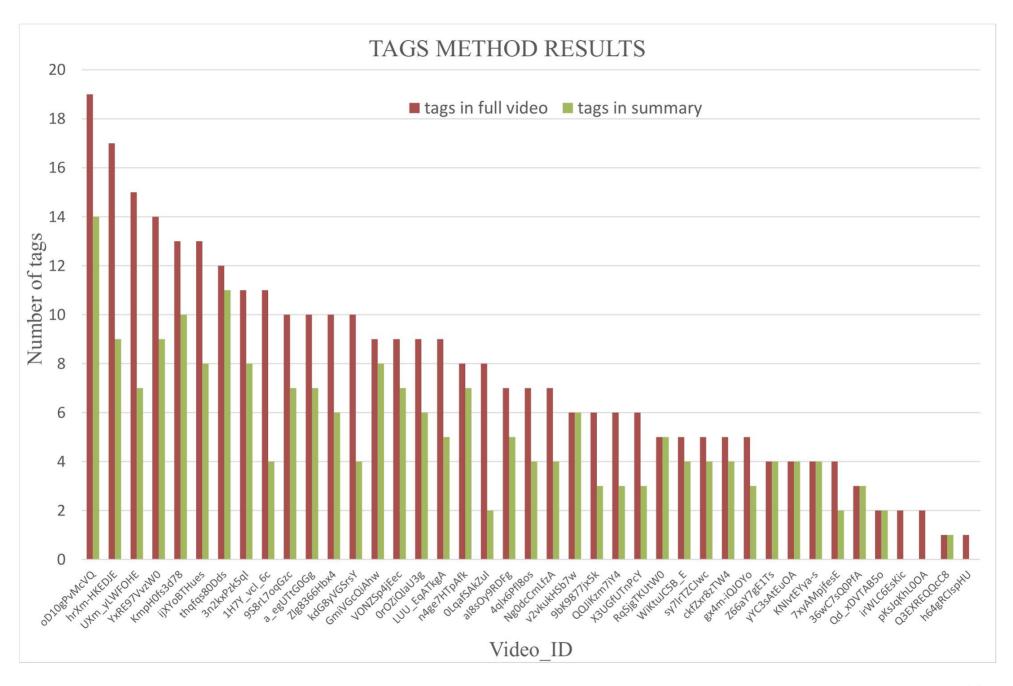


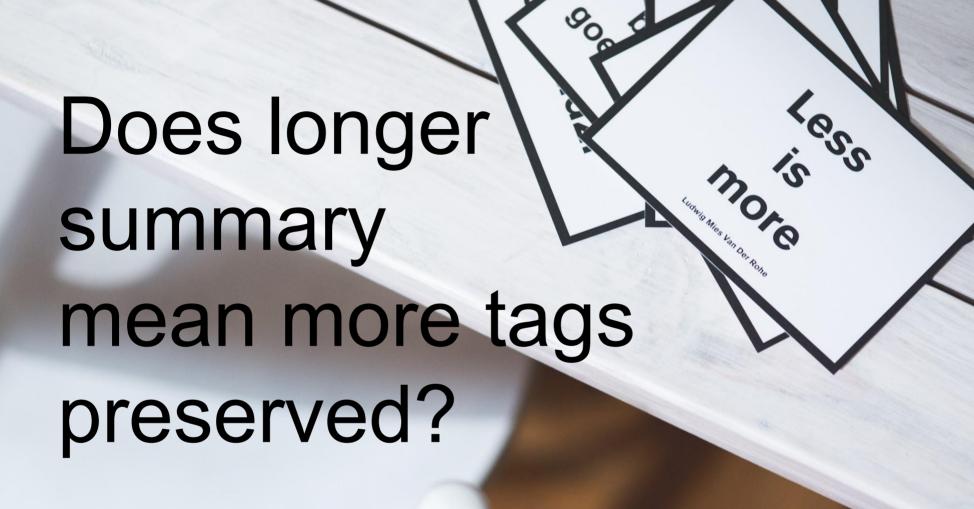


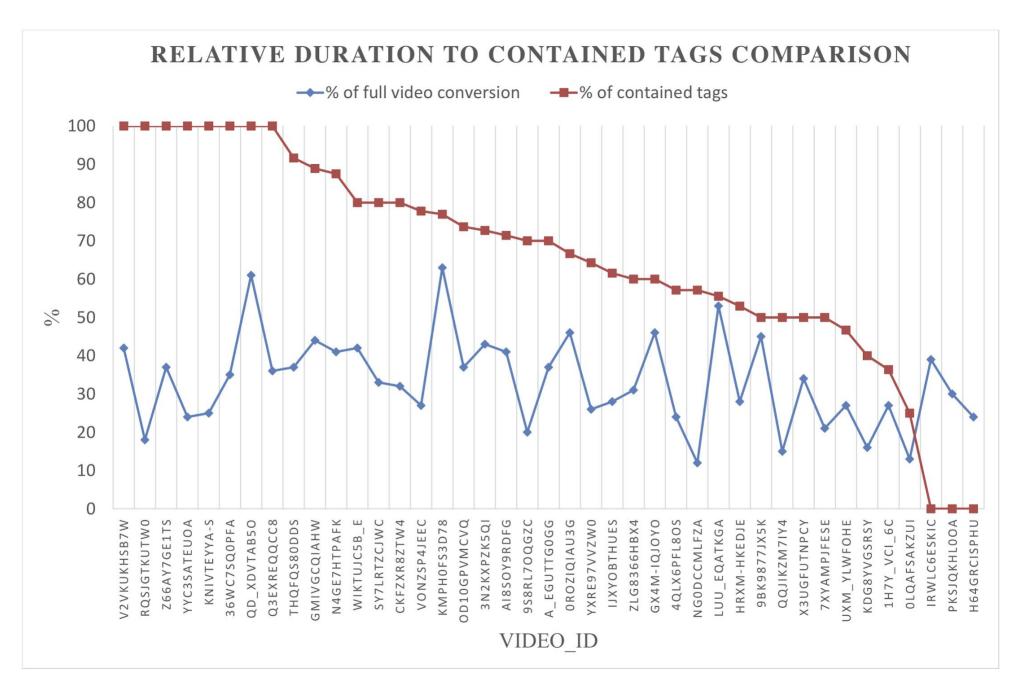
## Tag Selection

```
syrian
       rt fsa today
kickskicked
armywithdraw
        us-backed
special forces
War free
       russiatroops
```













## Further Work

- » All tests to be performed for more video sequences
- » Annotation to be done by larger pool of experts
  - » More objective shots selection