

# JEG-Hybrid

Joint Effort Group on the development/research of  
generally applicable hybrid video quality assessment algorithms

## Status Update

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# Mission

- To develop a generally applicable no reference Hybrid Perceptual/Bit-Stream model
  - With a small set of subjective experiments: limited training possibilities, limited validation
- Working on
  - Large scale DB with 60,000 + PVS (no losses) and 500,000+ PVS with distortion due to packet losses, many full-reference objective quality measures
  - Machine Learning models derived from trying to **model individual observers**
  - A "**stamp**" in **scientific publications for reporting** the training and benchmarking process of **DNNs-based VQMs**
  - How to **reuse existing subjective experiments** to deal with new challenge
  - Hodor project (concluded, results just published)

# Concluded Activities

- Hodor project with Sky Group and affiliates
- **Key outcome:** A measure that could allow to automatically identify PVSs for which VQMs are likely to deliver inaccurate MOS estimation
  - "Disagreement" computed on the basis of a combination of full-reference "traditional" VQMs, validated with a small subjective experiment
- **Publication:** L. Fotio Tiotsop, F. Agboma, G. Van Wallendael, A. Aldahdooh, S. Bosse, L. Janowski, M. Barkowsky, E. Masala, "[On the Link between Subjective Score Prediction and Disagreement of Video Quality Metrics](#)", In: IEEE Access, 2021 (Open Access)

# Where Can I Get More Information?

- Biweekly meetings (next: **Jan 10, 2022, 4pm CET**)  
<https://conf.dfn.de/webapp/conference/97980178>
- Website <http://vqegjeg.intec.ugent.be/wiki/>  
(notably: section resources, constantly updated, volunteers welcome!)
- How may I get involved?
  - Subscribe to the VQEG-JEG mailing list: [jeg@vqeg.org](mailto:jeg@vqeg.org)
  - <http://www.its.bldrdoc.gov/vqeg/email-reflectors.aspx>
- Join our biweekly conference call