

# Progress in Monitoring of Audio-Visual Quality by Key Indicators (MOAVI)

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# Presentation Plan

- Reminder on Monitoring of Audio Visual Quality by Key Indicators (MOAVI)
- Current status
- Progress since last VQEG meeting
- Future work

*Reminder on Monitoring of Audio Visual Quality by Key Indicators (MOAVI)*



# Reminder on MOAVI

- Mission
  - *“To collaboratively develop No-Reference models for monitoring individual audio-visual service quality artifacts”*
- Goals
  - To develop set of key indicators describing service quality in general and by removing implementation constraint
  - To select subsets for each potential application
  - To concentrate on models based on key indicators contrary to models predicting overall visual quality



# MOAVI Co-Chairs

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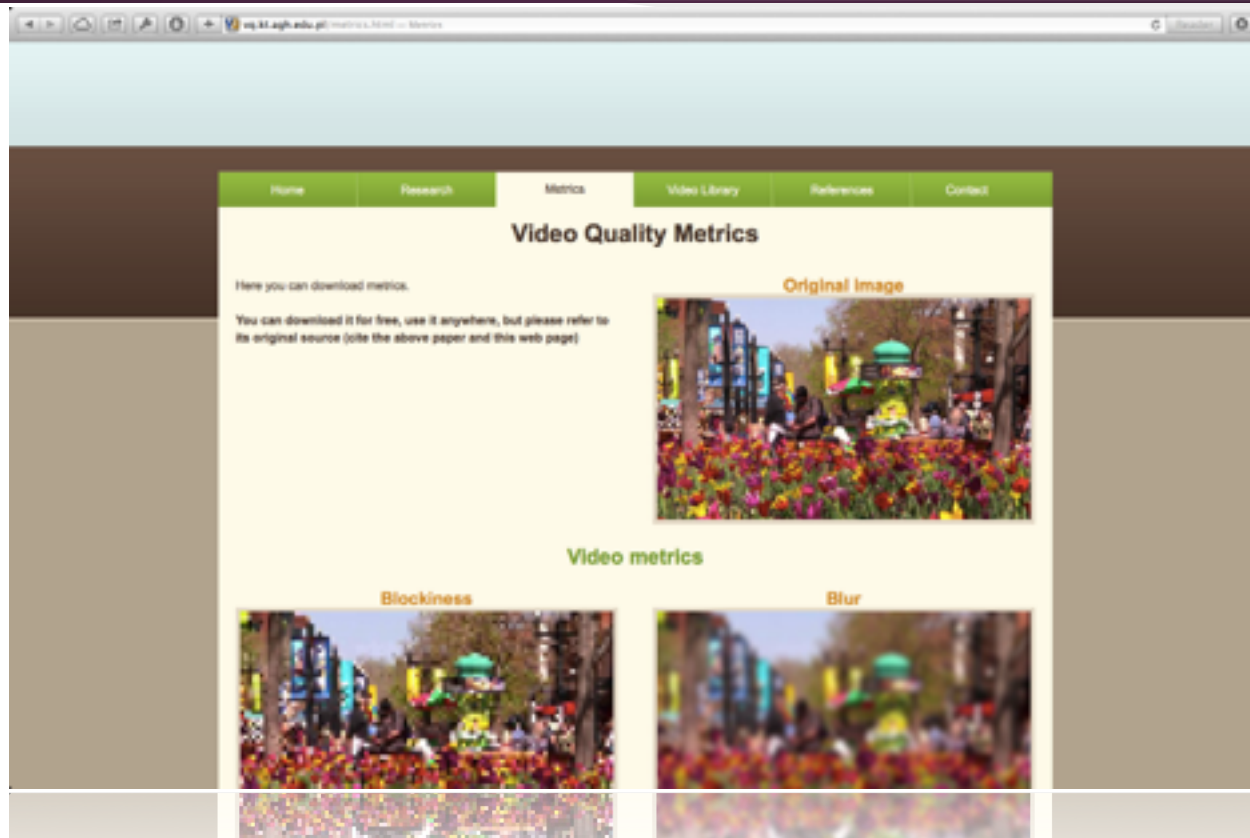


# Signal-Based, No-Reference Indicators for Artifacts of Various Origin

- **Capturing Artifacts:** bluriness, exposure, interlace, etc.
- **Processing Artifacts:** blockiness, bluriness, flickering, reduced spatial and temporal resolution, etc.
- **Transmission Artifacts:** blackout, block loss, freezing, slicing, etc.
- **Displaying Artifacts:** blackout, slicing, etc.



# Free MATLAB Audio-Video Quality Indicators Rolling Out Online at <http://vq.kt.agh.edu.pl/>










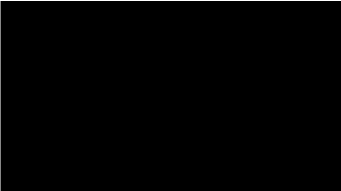

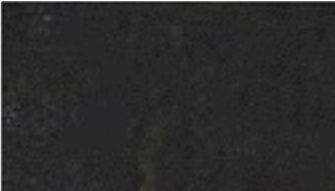




*Current Status*



# Available Video Indicators

<i><b>Blockiness</b></i>	<i><b>Bluriness</b></i>	<i><b>Exposure</b></i>	<i><b>Interlace</b></i>	<i><b>Noisiness</b></i>
				
<i><b>Framing</b></i>	<i><b>Flickering</b></i>	<i><b>Blackout</b></i>	<i><b>Spatial Activity</b></i>	<i><b>Temporal Activity</b></i>
				



# Available Audio Indicators

*Mute*



*Clipping*



*Progress since Last VQEG Meeting*

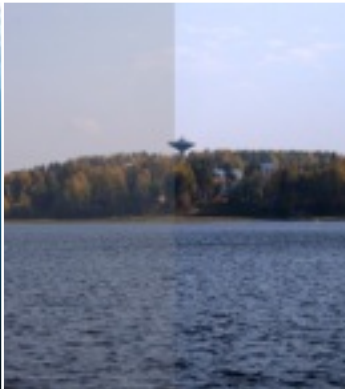


# New Video Indicators

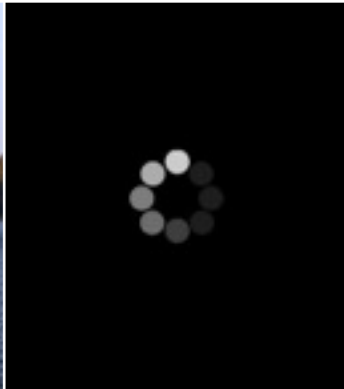
***Brightness***



***Contrast***



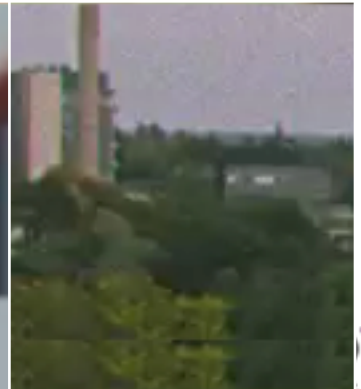
***Freezing***



***Block Loss***



***Slicing***



# Contribution to JEG-Hybrid

All indicators have been already contributed to **JEG-Hybrid** as all-in-one, easy-to-run binary executable



*Future Work*



# More Experimental Setups for Verification of Indicators

<i>Experimental Setup</i>	<i>Indicators</i>
<i>Threshold</i>	<i>Blockiness, Bluriness</i>
<i>MOS (ACR<math>\approx</math>DCR)</i>	<i>Exposure, Noisiness, Block Loss, Freezing, Slicing</i>
<i><u>None but planned</u></i>	<i><u>Contrast, Brightness, Flickering</u></i>
<i>None and not planned</i>	<i>Interlace, Framing, Blackout, Mute, Clipping</i>





# Black Box

