

Statistical Analysis Methods (SAM)

Goal

The SAM group addresses problems related to how to better analyze and improve data quality coming from subjective experiments and how to consider uncertainty in objective media quality predictors/models development.

We have biweekly conference calls on Monday at 17:00 CET. The actions and minutes from those meetings can be found in [this document](#). Please check the document to validate when is the next call and what software is used to call in.

To join the SAM mailing list (vqeg-sam@googlegroups.com) please send an e-mail to the chair at lucjan.janowski@agh.edu.pl

Zhi took the time to prepare a **github repo** where he deposited his code (in Python) - here is the link: <https://github.com/Netflix/sureal>

Statistical Analysis Methods (SAM) – Since The Last Meeting

- [Proposed updates to ITU-T Rec. P.913](#)
- [Generalized Score Distribution](#)
- Cross-lab analysis
- FOWR
- Pair Comparison versus Absolute Category Rating in the Lab and in the Crowd ([slides](#))
- Study of the conditions under which ACR (or its continuous version) and pairwise comparison (specifically, 2AFC) are equivalent
- Advocating for adding a CI to any subjective / objective reporting of results

Quality Assessment for Computer Vision Applications (QACOVIA)

- **Mission:**
 - To study the visual quality requirements for computer vision methods
- **The goal of the group is to study:**
 - Testing methodologies and frameworks to identify the limit of CV methods with respect to the visual quality of the ingest
 - Minimum quality requirements and objective visual quality measure to estimate if a visual content is the operating region of CV
 - to deliver implementable algorithms being a proof/demonstrate of the new proposal concept of an objective video quality assessment methods for recognition tasks
- **Questions** should be addressed to [Mikolaj Leszczuk](#) and [Patrick Le Callet](#) and Chair Lu Zhang (lu.ge@insa-rennes.fr).

Quality Assessment for Computer Vision Applications (QACOVIA) – Since The Last Meeting

- A publication:
 - Objective Video Quality Assessment Method for Face Recognition Tasks, M Leszczuk, L Janowski, J Nawała, A Boev - Electronics, 2022
- For Lu's side, the PhD student Alban MARIE is still studying the resistance of deep-learning based models to compression artifacts. He has conducted many experiments using different compression standards (from JPEG to VVC) and different configurations, to evaluate the resistance of deep-learning based models on both classification and segmentation task.