



ATQAM: 1st Workshop on Aesthetic and Technical Quality Assessment of Multimedia @ ACM Multimedia

12-16 October 2020 • Seattle, US

IMPORTANT DATES

Paper Submission due:

June 29, 2020

Notification:

August 2, 2020

Camera-ready paper deadline:

August 16, 2020

Workshop Date:

Oct. 12 / Oct. 16, 2020

Main Conference Dates:

Oct. 13-15, 2020

KEYNOTE SPEAKERS



Alan Conrad Bovik
Professor, UT-Austin
Primetime Emmy
Award Winner for his
research in video
quality assessment



James Z. Wang
Professor, Penn. State
University
Pioneering researcher
in aesthetics quality
assessment

ORGANIZERS

Wen-Huang Cheng, NCTU, Taiwan

Bastian Goldlücke, Uni-Konstanz, Germany

Vlad Hosu, Uni-Konstanz, Germany

Weisi Lin, NTU, Singapore

Dietmar Saupe, Uni-Konstanz, Germany

John See, MMU, Malaysia

Lai-Kuan Wong, MMU, Malaysia

Every day over 450 million photos and videos are being uploaded to Facebook and Instagram. The exponential growth of visual media has made quality assessment become increasingly important for various applications, including image and video acquisition, synthesis, restoration, enhancement, search and retrieval, storage, and recognition. Broadly, visual quality assessment techniques can be divided into image and video **technical quality assessment** (IQA and VQA, or broadly **TQA**) and **aesthetics quality assessment** (AQA). TQA focuses on the effect of image-level technical aspects of perceived quality, such as sharpness, noise, color reproduction, contrast, dynamic range, and others. On the other hand, AQA deals with more abstract aesthetics-related quality factors that capture the subjective aesthetics experience. Aesthetics judgments are associated with the adherence to established photographic rules encompassing lighting (emphasis, contrast), composition, colors, and more. Even though these topics have mostly been studied independently, they represent tightly related aspects of the same underlying subjective experience of media items, value judgments.

TOPICS

The **ATQAM: 1st International Workshop on Aesthetics and Technical Quality Assessment of Multimedia** aims to bring together individuals in the two fields of TQA and AQA for sharing of ideas and discussions on current trends, developments, issues, and future directions, with the vision to accelerate the progress of research in both fields. Our hope is that bridging TQA and AQA, will result in a better understanding of quantitative measures of quality of experience in the broader context of multimedia applications. The scope of this workshop spans:

- **Analysis and prediction of aesthetic and technical visual quality:**
 - Traditional and deep-learning-based approaches
 - Aesthetics/QoE related concepts, e.g. interestingness, popularity, virality
- **Datasets for TQA and AQA, including:**
 - New approaches to data collection procedures and sources
 - New data augmentation methods
- **Applications of TQA and AQA in computer vision or image processing tasks:**
 - Visual filtering and retrieval (recommendation, image gallery/video)
 - Visual editing (recomposition, retargeting, cropping)
 - Assessment guided visual enhancement
 - Real-world systems and applications
 - Applications to media such as light fields, 360 or stereo, point clouds.

PAPER SUBMISSION

Original contributions: Full 6-8 page paper submissions (not including references). All contributions must be submitted through CMT using the following link: <https://cmt3.research.microsoft.com/ATQAM>. For more information, please visit the workshop website: <https://atqam-workshop.net/>.

