

Quality assessment in context: the QoE way towards sustainable media consumption

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Yellow Zone, Yeung Kin Man Academic
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Tat Chee Avenue, Kowloon Tong

ABSTRACT

For the last 30 years, multimedia quality assessment has continuously gained larger research efforts along the development/presence of images in our daily life. The concept of Quality of Experience (QoE) has then emerged in the early 2ks to reflect the degree of delight or annoyance of the user of an application or service. As any Experience is happening in a context, e.g. viewing conditions, expectations, cost, ..., the impact of multimedia quality on QoE should vary with it. Sustainability of Multimedia consumption is a concern, like for any other domain, but also represents an opportunity for QoE science to better understand the impact multimedia quality on QoE in sustainable context. In this talk, we will introduce few concepts of the young QoE science field: testing methods to capture observer's opinion on various Media (audio, visual, haptics ...), computational prediction of perceived quality and applications in Media industry. We will present few recent studies to measure the impact of context of both perceived quality and QoE.

BIOGRAPHY

Patrick Le Callet (IEEE Fellow) is Full Professor at Polytech Nantes / Nantes Université and Senior Member of the Institut Universitaire de France. He leads interdisciplinary research on human perception, media processing, and cognitive computing. His work focuses on sustainable visual communication, quality of experience, and cognitive computing. Former scientific director of the "Ouest Industries Créatives" cluster, he has authored over 500 publications and 16 patents. Active in international editorial boards and standardization bodies (VQEG, IEEE-SA), he is co recipient of a Technology & Engineering Emmy Award in 2020 for his contributions to perceptual metrics in video encoding.

All are welcome!



In case of questions, please contact Prof. MA Kede at kede.ma@cityu.edu.hk, or visit the CS Departmental Seminar Web at <https://www.cs.cityu.edu.hk/events/cs-seminars/recent-cs-colloquia>.