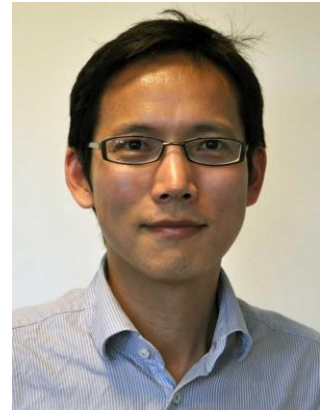


Perceived visual quality assessment

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Abstract

Visual signals are often distorted due to unavoidable factors, e.g., lossy compression, transmission over error prone networks. Accurate assessment of visual quality plays an important role in multimedia services in order to provide the best viewing experience to end-users. Traditionally used quality metrics, e.g., PSNR (peak signal-to-noise ratio) often cannot accurately represent the actual distortions perceived by human users. For example, the distorted images below all have same PSNR values with respect to the original reference image, while they present different levels of perceived distortions. This talk presents methodologies of perceived visual quality assessment, including visual mechanism modelling and applications in objective visual quality metrics. A video quality metric driven visual attention and foveation mechanism that was developed by the presenter will be introduced as an example. Applications in other areas will also be briefly mentioned.

