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What Makes an Image Look Good?
Recent Progress on Objective Image Quality Assessment

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Time: 4 pm- 5 pm

Place: E5–5106/5128 University of Waterloo

Refreshments will be served

Abstract :

Images are subject to a wide variety of distortions during acquisition, processing, compression, transmission and reproduction. Humans are sensitive to image distortions and can effortlessly identify image distortions. By contrast, objective evaluation of perceived image quality turns out to be a difficult task. In the past decade, there has been a sudden acceleration in progress and interest in image quality assessment, which, not coincidentally, has corresponded with a rapid rise in interest in digital imaging in general, driven by technological advances and the ubiquity of digital images. The roles of image quality assessment methods are not only to monitor image quality degradations and to benchmark image processing systems, but also to optimize a large number of image processing algorithms and systems. In this talk, we will first give a brief overview of the field of objective image quality assessment. We will then introduce our recent progress on the design of image quality measures and discuss their extended applications beyond quality assessment.

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