

We live in the age of big data. The biggest big data is big visual data, which includes images and other associated information. The biggest challenge is to develop effective computational methods for making sense of such massive visual data. Unlike text which is clean, segmented, compact, one dimensional and indexable, visual content is noisy, unsegmented, high entropy and multidimensional. In this talk, we present a few recent advances towards the ultimate goal of using big data, in particular large-scale and rich multi-modality data, to achieve robust intelligence in order to understand and improve life in terms of healthcare, well-being, politics, business, infotainment, and so on.