ABSTRACT

Smart objects are ordinary objects that have been endowed with the ability to store and communicate information. We can obtain a large amount of useful information about various aspects simply by watching television, e.g., details about events in Japan and in the world, current trends, economic activities, and so on. In a few experimental studies, we have explored how this data can be used for automated social analysis through face detection and matching, fast commercial film mining, and visual object retrieval tools. In my lab, we developed and deployed key technologies for analyzing the NII TV-RECS video archive containing 400,000 hours of broadcast videos to achieve this goal. In this talk, I will present a selection of our work that describes methods to automatically extract and analyze such information.