

Analysis and mining of multimedia collections: How can statistics help?

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Multimedia data are used on a very large scale for communication of information: professional media, social networks, mails, online courses, etc. Understanding multimedia data, organizing collections to help people find information, extract knowledge, apprehend complex information or identify trends has become a necessity where data analytics is essential. Statistical models and data analysis techniques are instrumental to analyze multimedia data, often in conjunction with machine learning. The presentation will review recent research activities in multimedia analytics led in the Linkmedia team at Irisa and Inria Rennes (<http://www-linkmedia.irisa.fr>). In particular, we will discuss the organization of large-scale collections of multimodal multimedia data, for instance with the help of probabilistic topic models. Throughout the presentation, we will try to highlight the use of statistics in this field and the limitations that we are facing today.