Abstract

Video, image, and audio retrieval presents unique challenges for web-scale search. In particular, it is difficult to scale content-based techniques to billions of images, millions of podcasts, or tens of millions of videos. In this talk, we explain the problems Microsoft’s Live Search faced in developing its image search engine and discuss the motivation behind features such as a smart-scroll and meta-data hover. Central to the talk is a discussion of relevance challenges, including using image processing techniques, adult filtering, and near-duplicate detection. We conclude with an overview of short- and medium-term challenges for multimedia search.

About The Speaker

Hugh E. Williams is a Principal Development Manager at Microsoft’s Live Search in Redmond, WA. He manages the development of image, video, and news search, as well as instant answers, related searches, and around one-third of the web ranking and relevance work. Previously, he was the Associate Professor in Information Retrieval at RMIT University in Melbourne, Australia. He’s published around 70 papers and has over 20 patents pending, mostly in the search engine area. He has written two books for O’Reilly Media Inc. Hugh has a PhD from RMIT University. His personal home page is http://hughwilliams.com

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