

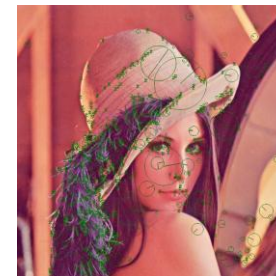
MULTI-MODEL APPROACH FOR EFFECTIVE MULTIMEDIA EXPLORATION

Multimedia Exploration

Classical search systems require clearly specified query formulation to satisfy user's need. Sometimes, the only thing the user has is an idea, a picture of the result in his head. Only once he sees some result he can decide whether it is relevant or not – “I don't know what I'm looking for, but I'll know when I find it”.

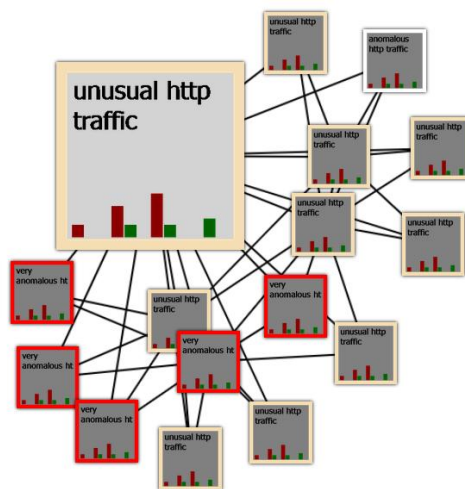
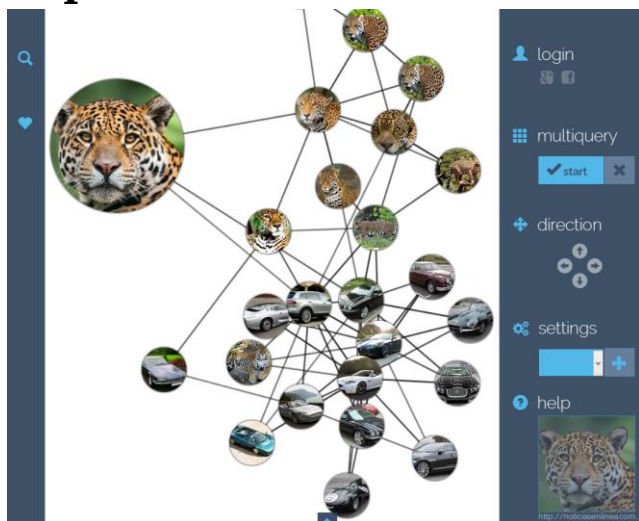
Multimedia exploration tries to solve these problems by making the user a significant part of the search process.

Multi-model Approach



Proposed methods utilize multiple similarity models to answer exploration queries. Relevance feedback techniques were developed to maximize the discriminative power of the user. User study has shown a big increase in search effectiveness.

Exploration framework



Applications of the framework include re-ranking of 3rd party services (FaceBook, Bing), exploration of large photo collections and a research tool for network events analysis (Cisco).