Complura: Exploring and Leveraging a Large-scale Multilingual Visual Sentiment Ontology

http://mvso.cs.columbia.edu/complura/

1. Introduction

Complura provides three major functions:
(1) An interactive multilingual ontology browser.
(2) A cross-lingual image-based sentiment analyzer.
(3) A culturally-coherent, sentiment-sensitive image query expansion engine.

2. Ontology Organization

3. System Overview

1). Ontology Browser
Enables users to formulate hypothesis, choose controlled categories, and visualize image differences tagged with different languages

2). Sentiment Analysis
Multilingual sentiment analysis using MVSO ANP detector banks

3). Query Expansion
Image query expansion engine with cultural and sentiment coherence using the semantic structure and detectors