Mr Bear Project Glossary

Mr Bear – The Mr Bear project, an image matching service localized to the University of Alberta grounds.

Image Matcher – Given a user supplied image, returns the most similar images from a database.

Building Matcher – An extension of image matching geared towards matching parts of UofA buildings.

Augmented Reality – Delivery of information about matched buildings using real time views.

University Guide – Providing either information or directions for the UofA.

User – Those individuals who will make use of the Mr Bear system.

System – Refers to the content delivery system including the mobile front end as well as the server backend.

Information Sources

Similar Products

OpenCV Surf – an Android app (demo) which matches points found in two user supplied images
https://market.android.com/details?id=test.photo3dapps.surf

Google Goggles – an Android app which has a user scan or photograph a point of interest and attempts to identify and perform some operation based on the type of object. For instance, captured texts will be translated, while pictures of famous buildings will be identified.
https://market.android.com/details?id=com.google.android.apps.unveil&hl=en

Useful Information

For possible implementations of augmented reality:

A list of some promising AR engines
http://gamesalfresco.com/2008/05/13/top-10-augmented-reality-engines-that-will-ignite-a-new-era-of-video-games/

Layar, an AR engine with a focus on mobile development
http://layar.com/

Junaio, another AR backend for use with mobile devices
http://www.junaio.com/develop/

A list of some current AR projects
http://handheldar.icg.tugraz.at/index.php

Other:

Our server will be hosted using Amazons EC2
http://aws.amazon.com/ec2/

Will will be implementing Twisted as our networking engine
http://twistedmatrix.com/trac/

Review Guidelines