

Development of Interactive Online Anatomy Images in the Luna Insight Image Database

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Abstract:

Background

The library negotiated to trial new image database software in 2005, Insight from Luna Imaging Inc., to see whether it provided a viable platform for the library image database to be further developed to better support cross campus and online teaching and learning strategies.

The image database system provided major advances in the use of online images in learning applications. These include -

1. Improve resource capture and submission procedures.
2. Improve the image access and display functionality (teaching tools) provided to teaching staff in both teaching locations and online.
3. Enable the development of distributed indexing and cataloguing tools across the network.
4. Enable academic staff to prepare their own collections, as required, from their desktop.
5. Provide a development platform to link to other online Library digital audiovisual collections.
5. Provide a development platform to take advantage of the jpeg2000 image file standard. This will provide a number of advantages over our current jpeg file format, for both archiving purposes and for image access and manipulation over the network.

Collaborative application development

The paper will report on progress to date of a collaborative project between the library and the School of Human Biosciences. The project involves the use of a collection of digital images of plastinated human cadaver sections.

The broad aims of the project are to:

- provide reliable online access to a collection of high resolution images, across multiple bandwidth connections, using the multi-resolution jpeg2000 wavelet system functionality.
- create a series of correctly labelled images for different cohorts of students (e.g., physiotherapy, nursing etc.) from the same collection of images.
- have all image label terms searchable across all collections using the distributed indexing and annotation tools provided by the system.
- make the images interactive to enable students to use them as a self assessment tool.
- evaluate student feedback on the use of the image collection (compared to the previously available image collection)
- provide a development platform for other image intensive disciplines in the Health Sciences.