

## The Bohemian Bookshelf: Supporting Serendipitous Book Discoveries through Information Visualization

By Alice Thudt, Uta Hinrichs,  
Sheelagh Carpendale

Serendipity, a trigger of exciting yet unexpected discoveries, is an important but comparatively neglected factor in information seeking, research, and ideation. We suggest that serendipity can be facilitated through visualization.

To explore this, we introduce the Bohemian Bookshelf, which aims to support serendipitous discoveries in the context of digital book collections. The Bohemian Bookshelf consists of five interlinked visualizations each offering a unique overview of the collection. It aims at encouraging serendipity by:

- (1) offering multiple visual access points to the collection,
- (2) highlighting adjacencies between books,
- (3) providing flexible visual pathways for exploring the collection,
- (4) enticing curiosity through abstract, metaphorical, and visually distinct representations of books, and
- (5) enabling a playful approach to information exploration.

A deployment at a library revealed that visitors embraced this approach of utilizing visualization to support open-ended explorations and serendipitous discoveries. This encourages future explorations into promoting serendipity through information visualization.



COVER COLOUR  
Browse Books by Colour



### Monsters and revolutionaries

by Vergès, Françoise, 1999

Times: 1764-1946

Pages: 394

Keywords: Ethnopsychology, Réunion, History, Acculturation, Racially mixed people, France, Race

In *Monsters and Revolutionaries* Françoise Vergès analyzes the complex relationship between the colonizer and colonized on the Indian Ocean island of Réunion. Through novels, iconography, and texts from various disciplines including law, medicine, and psychology, Vergès constructs a political and cultural history of the island's relations with France. Woven throughout is Vergès's own family history, which is intimately tied to the history of Réunion itself.

### In This Issue:

- The Bohemian Bookshelf: Supporting Serendipitous Book Discoveries through Information Visualization
- Mouse Based Scrolling for a Radiology Type Task

SurfNet  
Workshop 2014 to  
coincide with Canada 3.0  
May 2014

## Mouse Based Scrolling for a Radiology Type Task

By Louise Oram

**Affiliation: University of British Columbia**

**Supervisors: Karon MacLean & Philippe Kruchten**

**Industry affiliation: McKesson**

Magnetic Resonance Imaging (MRI) and Computed Tomography (CT) technology advancements mean there are a larger and larger number of images for radiologists to examine for diagnosis. However, the way of interacting with these images has changed little since the advent of the scroll wheel on the computer mouse.

Our research focuses on scrolling through a stack of images (cross sections of the body), and how scrolling interaction might be improved. We designed an abstracted task to run on lay subjects with several different types of computer mice, including a mouse with a touch surface.

Computer aided detection is trying to help save radiologists valuable time by suggesting potentially anomalous areas. These regions are visually

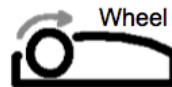
annotated in a task that already requires lots of visual attention. Therefore, we also looked at using vibrotactile feedback instead of visual annotations; the mice used in the study all had pager motors below the top surface. Preliminary results show that, across all the mice, the vibrotactile feedback along with the visual annotation was faster than either was alone. Additionally 10/12 of the subjects preferred having both feedback types together over either alone.

We hope that by diversifying the ways that radiologists can scroll, and by having ways to communicate information to them non-visually, we can make their workflow more efficient.

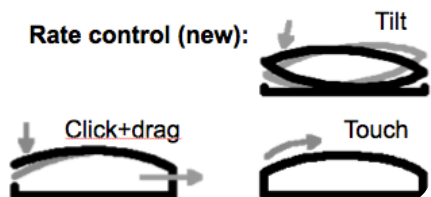
**\*\* This project was recently the topic of a poster at the Society for Imaging Informatics in Medicine (SIIM, 2013) conference.**



**Position control (traditional):**



**Rate control (new):**



## In Review: SurfNet Workshop 2013 June 12 - June 15, University of Calgary

Contact SurfNet at:  
[surfnet@ucalgary.ca](mailto:surfnet@ucalgary.ca)

- Did you know SurfNet Workshop 2013 saw the most attendees in our history? 93 people registered!
- We also presented the most demos to date, with 30 projects showcased for our Industry Open House.
- Special thanks go out to our keynote Dr. Pierre Boulanger and the many volunteers that made this year such a success! In particular, Post-Doctoral Fellow, Christophe Bortolaso from Queen's University, that organized Minute Madness.
- Next Workshop to be held the last week of May 2014 in conjunction with Canada 3.0. Mark it in your calendars! More details to come!

**SurfNet**

[www.nsercsurfnet.ca](http://www.nsercsurfnet.ca)