Web ValueCharts: Supporting Decision Makers with Interactive, Web-Based Visualizations

Aaron Mishkin

Program: BSc in Computer Science

Supervisors: David Poole and Giuseppe Carenini
Example: Choosing a Hotel
Hotel Alternatives
Hotel Criteria
Score Functions for Criteria
Re-weighting the "Cost" Criteria
Re-weighting the “Cost” Criteria
Modifying Scores for "Internet"
Modifying Scores for "Internet"
Choosing Hotel Paris
Efficacy and Adoption

A comprehensive evaluation in 2008 found ValueCharts to be very effective at supporting decision tasks\(^1\).

Convincing decision makers to adopt ValueCharts requires a platform for creating, using, and sharing them.
Web ValueCharts
Summary

- ValueCharts are powerful tools for supporting multi-attribute decisions.
- Web ValueCharts is an open-source web application for creating and sharing ValueCharts.
- Industrial and scientific pilot projects are occurring in the near future.
Acknowledgements

• UBC ValueCharts Research Group
  – Especially David Poole, Giuseppe Carenini, and Emily Hindalong.

Work supported by NSERC USRA and Engage grants.
References