InfoVis Group Research

Tamara Munzner
Department of Computer Science
University of British Columbia
Huawei Burnaby
8 Feb 2018
www.cs.ubc.ca/~tmm/talks.html#huawei18 @tamaramunzner

Research agenda: interleaved angles of attack

- technique-driven work
- problem-driven work

- theoretical foundations
- evaluation

Problem-driven work
- design studies
  - in collaboration with target users
  - real data, real tasks
  - intensive requirements analysis
  - iterative refinement
  - deploy tools/systems
  - typical evaluation: field studies
- my strategy: opportunistic collaboration
  - many domains
  - both industrial and academic partners

www.cs.ubc.ca/~tmm/talks#huawei18

Problem-driven work
- design studies
  - in collaboration with target users
  - real data, real tasks
  - intensive requirements analysis
  - iterative refinement
  - deploy tools/systems
  - typical evaluation: field studies

www.cs.ubc.ca/~tmm/talks#huawei18

Problem-driven: Genomics
- Jess Gaydy
  - BCR Cancer
- Cindy Niswan
  - BC Cancer
- Anna Cram
  - CDC Cancer
- current work: genomic epidemiology
- current work: genomics (UBC Zoology)

www.cs.ubc.ca/~tmm/talks#huawei18

Technique-driven: Graph drawing
- David Auber
  - Bordeaux
- Robert Kincaid
  - Agilent
- Benoit Montreuil
  - Bordeaux
- Benjamin Renoust
  - Bordeaux
- Heidi Lam
  - Bordeaux

www.cs.ubc.ca/~tmm/talks#huawei18

Evaluation in the field: Dim. reduction
- Melanie Tory
  - Glint
- Melanie Tory
  - BCR Cancer

www.cs.ubc.ca/~tmm/talks#huawei18

Technique-driven work
- scalable algorithms & systems
  - typical evaluation: computational benchmarks
  - new layout & interaction techniques
  - typical evaluation: controlled experiments on human subjects

Evaluation in the field: Dim. reduction
- Melanie Tory
  - Glint
  - BCR Cancer

www.cs.ubc.ca/~tmm/talks#huawei18

Curation & Presentation: Timelines
- Johanna Fields
  - UBC Zoology
- Matt Brehmer
  - Microsoft
- Benjamin Bach
  - Microsoft
- Nathalie Henry-Riches
  - Microsoft

www.cs.ubc.ca/~tmm/talks#huawei18