

talk slides: <http://www.cs.ubc.ca/~tmm/talks/alibaba17/alibaba17-munzner.pdf>

- 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

Heidi Lam
Diane Tang (Google)
Peter McLachlan
Stephen North (AT&T Research)

SessionViewer: web log analysis
<https://youtu.be/T4MaTZd56G4>

LiveRAC: systems time-series logs
<https://youtu.be/ld0c3H0V5kw>

Matt Brehmer
Kevin Tate (Pulse/EnerNOC)
Maryam Booshehriani
Torsten Moeller (SFU)

Energy Manager

Vison
<https://youtu.be/h0kHoS4VYmk>

Aaron Barsky
Jenn Gardy (UBC Micro)
Robert Kincaid (Agilent)
Miriah Meyer
Hanspeter Pfister (Harvard)
MixBee

Cerebral
<https://youtu.be/76HhG1EQng>

MulteeSum, Pathline
<https://youtu.be/86p7brwuz2q>

Joel Restay
Cydney Nielsen (BC Cancer)
Jonathan Stray (Assoc Press)

Variant View
https://youtu.be/AH0nv_qMxXQ

Overview
<https://vimeo.com/71483614>

Michael Sedlmair

ReEx (BMW)
<https://youtu.be/89IsQXc6A04>

current work:
Mobify clickstream collaboration
Kimberly Dextras-Romagnino

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

Daniel Archambault
David Auber (Bordeaux)
Benjamin Renoust
Guy Melançon (Bordeaux)

TopoLayout
SPF
Grouse
TugGraph

Detangler
<https://youtu.be/Q0mHSuLV6k>

TreeJuxtaposer
<https://youtu.be/GdaPj8s9Qoc>

Dmitry Nekrasovski
Adam Bodnar
Joanna McGrenere
Jessica Dawson
Joanna McGrenere

Stretch and squish navigation

Search set model of path tracing

Stephen Ingram
Glint

Glimmer
DimStiller
QSNE

• derive low-dimensional target space from high-dimensional measured space

Task 1: In HD data → Out 2D data → In 2D data → Out Scatterplot Clusters & points → In Scatterplot Clusters & points → Out Labels for clusters

Task 2: In 2D data → Out Scatterplot Clusters & points → In Scatterplot Clusters & points → Out Labels for clusters

Task 3: In Scatterplot Clusters & points → Out Labels for clusters

Melanie Tory
Michael Sedlmair
Melanie Tory

Points vs landscapes for dimensionally reduced data

Guidance on DR & scatterplot choices

Taxonomy of cluster separation factors

DR in the Wild

Matt Brehmer
Michael Sedlmair
Melanie Tory
Stephen Ingram

Johanna Fulda (Sud. Zeitung)
Matt Brehmer
Bongshin Lee (Microsoft)
Benjamin Bach (Microsoft)
Nathalie Henry-Riche (Microsoft)

TimeLineCurator
<https://vimeo.com/423246652>

Timelines Revisited
[timelinesrevisited.github.io/](https://github.com/timelinesrevisited)

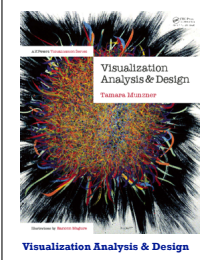
domain
abstraction
idiom
algorithm

Nested Model

Design Study Methodology
Michael Sedlmair
Miriah Meyer

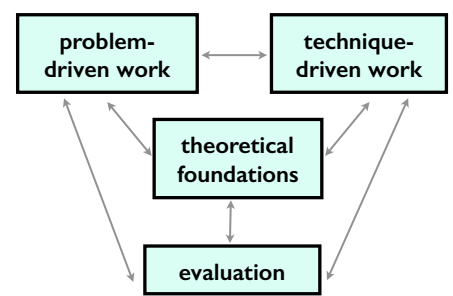
Abstract Tasks
Matt Brehmer

Theoretical foundations



T P
F
E

Research agenda: interleaved angles of attack



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