

CTHCI Lab I

Paper Reading and Identifying Contribution Types

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<http://hci.rwth-aachen.de/cthci>



Literature in this Class

- Do I need to know what problems that GPS creates while driving?
 - No.
- **Required reading:** Examinable, must be read by everyone
- **Recommended reading:** Not examinable
- **Other example papers:** Not examinable
 - Examples to illustrate the concepts explained in the class.

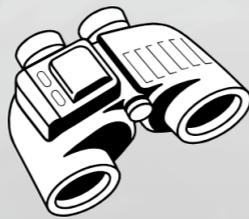


HCI Research: Approaches and Contributions

Approaches



Test



Look



Make

Seven Research Contribution types

- Empirical
- Artifact
- Methodological
- Theoretical
- Dataset
- Survey
- Opinion

In-class exercise



Research Example: CommandMaps

- Scarr et al., Best paper CHI '12 
- Improve toolbar (specifically Microsoft's Ribbon interface)
- In-class exercise:
 - Contributions?
 - Benefits?
 - Which part uses empirical science, ethnography, and engineering/design approach?



Improving Command Selection with CommandMaps

Joey Scarr[†], Andy Cockburn[†], Carl Gutwin[‡], Andrea Bunt^{*}

[†] Computer Science, University of Canterbury, New Zealand

[‡] Computer Science, University of Saskatchewan, Canada

^{*} Computer Science, University of Manitoba, Canada

CommandMaps

- Contributions & Benefits:
 - “Introduces **CommandMap interfaces for mouse-based command invocation**. Theoretically and empirically demonstrates that their defining properties — spatially stable command locations and a flat command hierarchy — **improve user performance**.”

[Scarr et al., CHI '12]



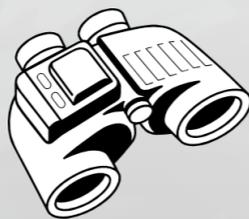
In-Class Exercise:

Practice Skimming and Classifying papers

Approaches



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Practice your skill!
In-class: use the handouts
At home: visit [http://
chi2015.acm.org/program/](http://chi2015.acm.org/program/)

Retrieving and Searching for Papers

- Google Scholar: Entry point, alerts, citation search, finding the full version for free
- ACM Digital Library: The main archive, video materials, comprehensive search by author
 - **CHI**: <http://dl.acm.org/event.cfm?id=RE151&tab=pubs>
 - **UIST**: <http://dl.acm.org/event.cfm?id=RE172&tab=pubs>
 - **MobileHCI**: <http://dl.acm.org/event.cfm?id=RE395&tab=pubs>
- Elsevier authentication
 - **IJHCS**: <http://www.journals.elsevier.com/international-journal-of-human-computer-studies/recent-articles/>
 - Citeology: Citation visualization (1982–2010)
 - <http://www.autodeskresearch.com/projects/citeology>

Important resources for
all your assignments



CITEOLOGY

L01 Referenced Literature

- Joey Scarr, Andy Cockburn, Carl Gutwin, and Andrea Bunt. 2012. Improving command selection with CommandMaps. In Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (CHI '12). ACM, New York, NY, USA, 257-266.
DOI=10.1145/2207676.2207713 <http://doi.acm.org/10.1145/2207676.2207713>

