

CTHCI Lab I

Paper Reading and Identifying Contribution Types

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Summer Semester 2015

<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/>



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



CITOLOGY