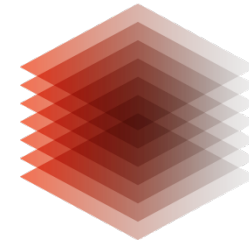

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TIB

ORKG : Latest frontend developments

Farfar Kheir Eddine

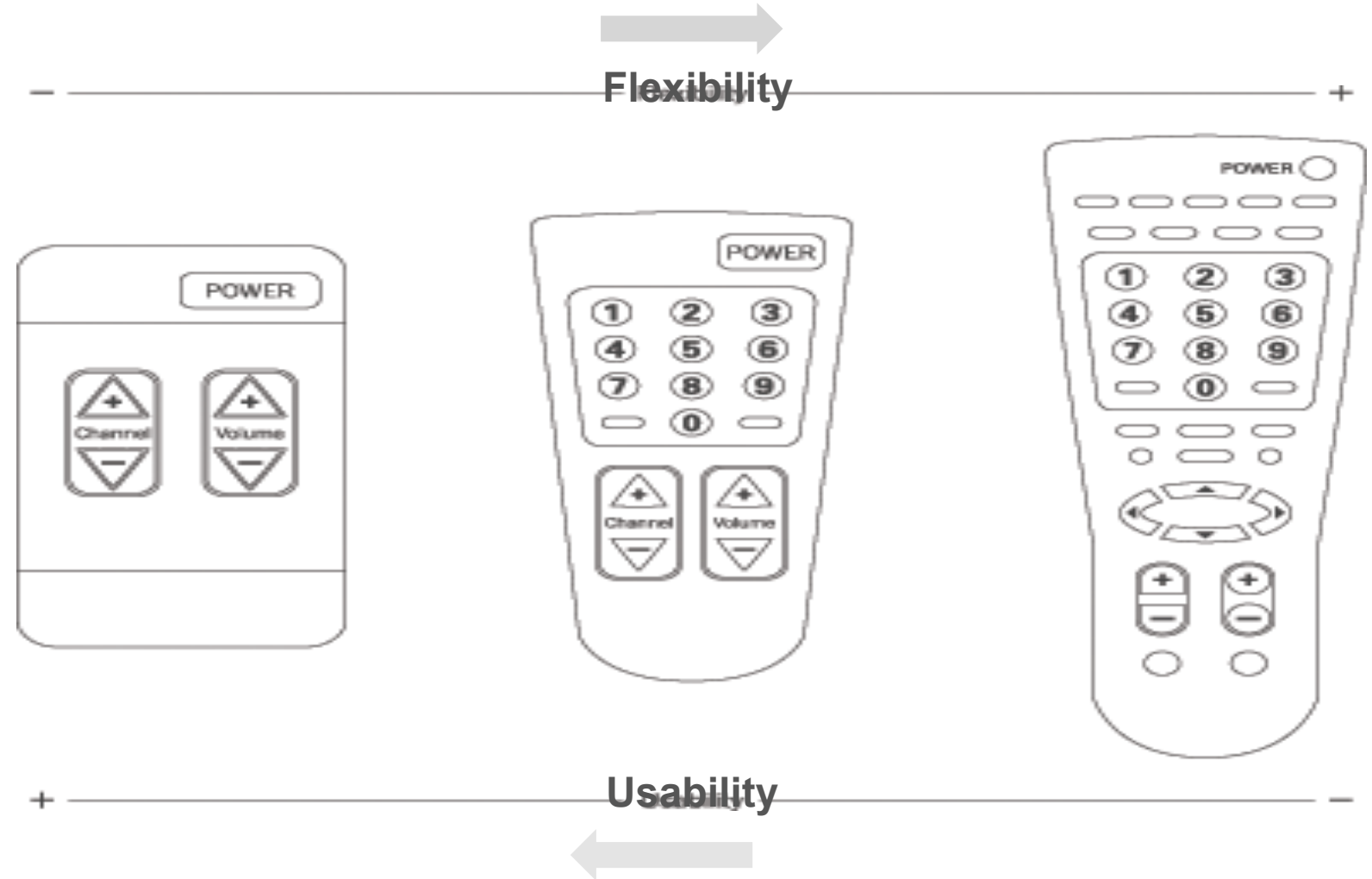
Plan

- Goals
- Experiments and evaluations
- Features
- Demo Time
- Future work

Goals

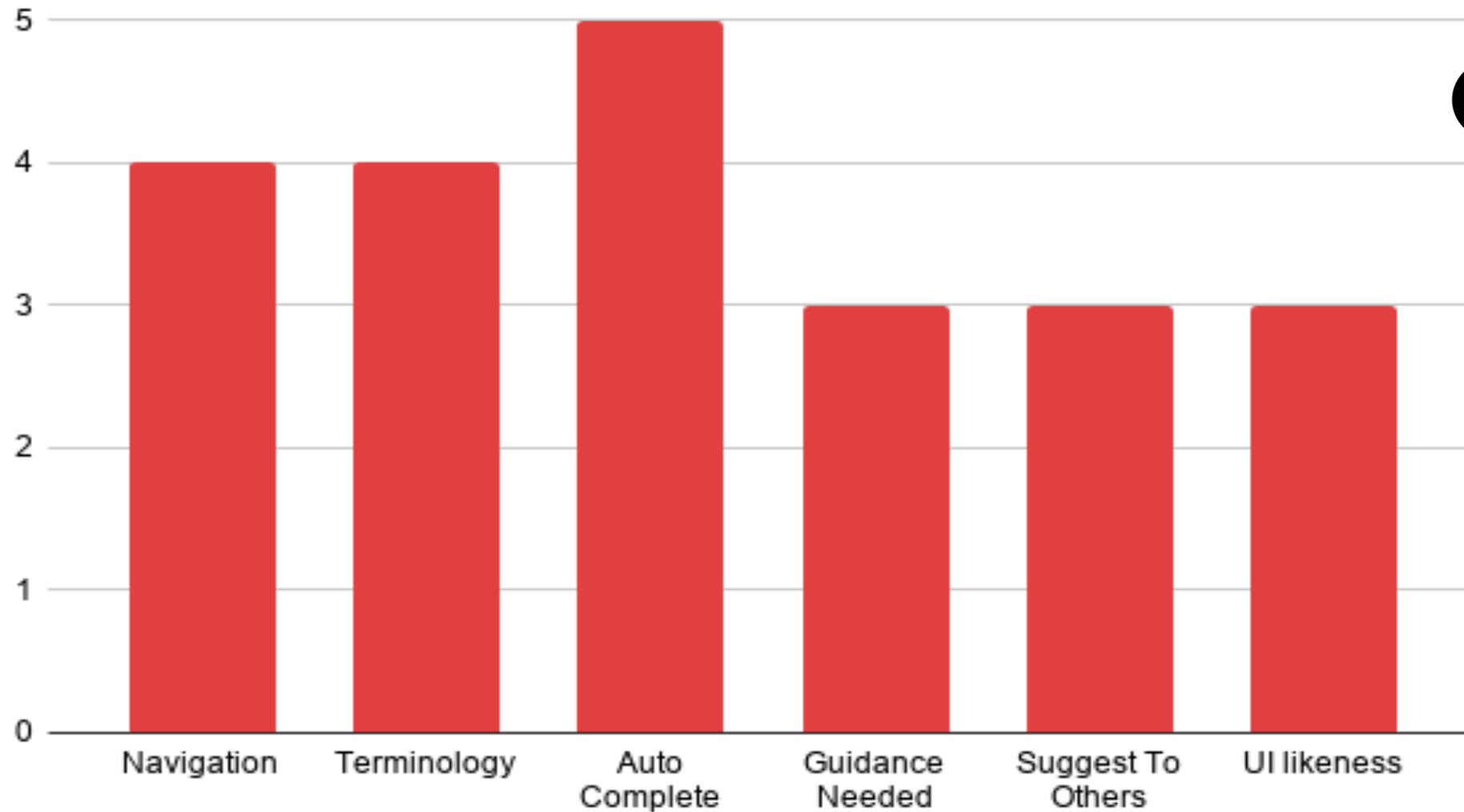
Audience

- Researchers
- Librarians



Source : Universal Principles of Design, Rockport Publishers, 2010

Evaluations of the first prototype (DILS 2018 conference)



17 mins

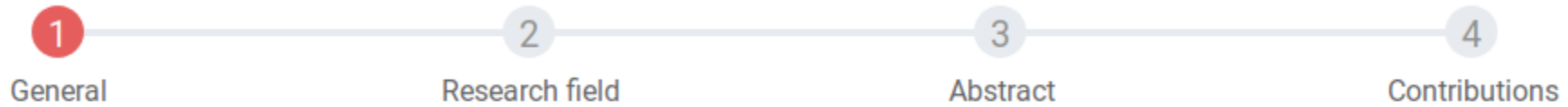
Features

- Paper addition workflow
- Abstract Annotations
- Scientific Contributions Browser
- Paper Graph visualization
- Contributions Comparison

Paper addition workflow

Add paper


 View graph



General paper data

By DOI

Manually

Paper DOI or BibTeX 

Lookup

Next step


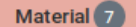
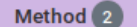


Paper abstract annotation



Abstract annotation


Skip this step

Info: we automatically annotated the abstract for you. Please remove any incorrect annotations

Annotation labels     

Scholarly events, such as conferences play a key role in scholarly communication from many research fields, such as computer science. We describe a systematic redesign of the OpenResearch Scientific Events Ontology (OR-SEO) that is used as a schema for the event pages on OpenResearch.org curation platform. OR-SEO is now in use in thousands of event pages on OpenResearch, which enables users to create events wiki-pages without going into the details of the implementation of the ontology. We syntactically and semantically validated OR-SEO to conform to the W3C standards. It has been published through a persistent URL following W3C best practices for publishing Linked data and has been registered at Linked Open Vocabularies.

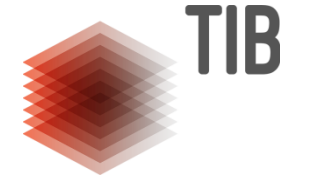
Change abstract

Certainty 0.47 

Previous step

Next step

Scientific Contributions Browser



contribution

Research problems

Add to comparison

Scholarly communications representation
Structured descriptions of research contributions

Contribution data

[← Back](#)

[Main](#) [Backend](#)

Uses framework: *Spring boost*



Uses graph: *Neo4J*



Programming language



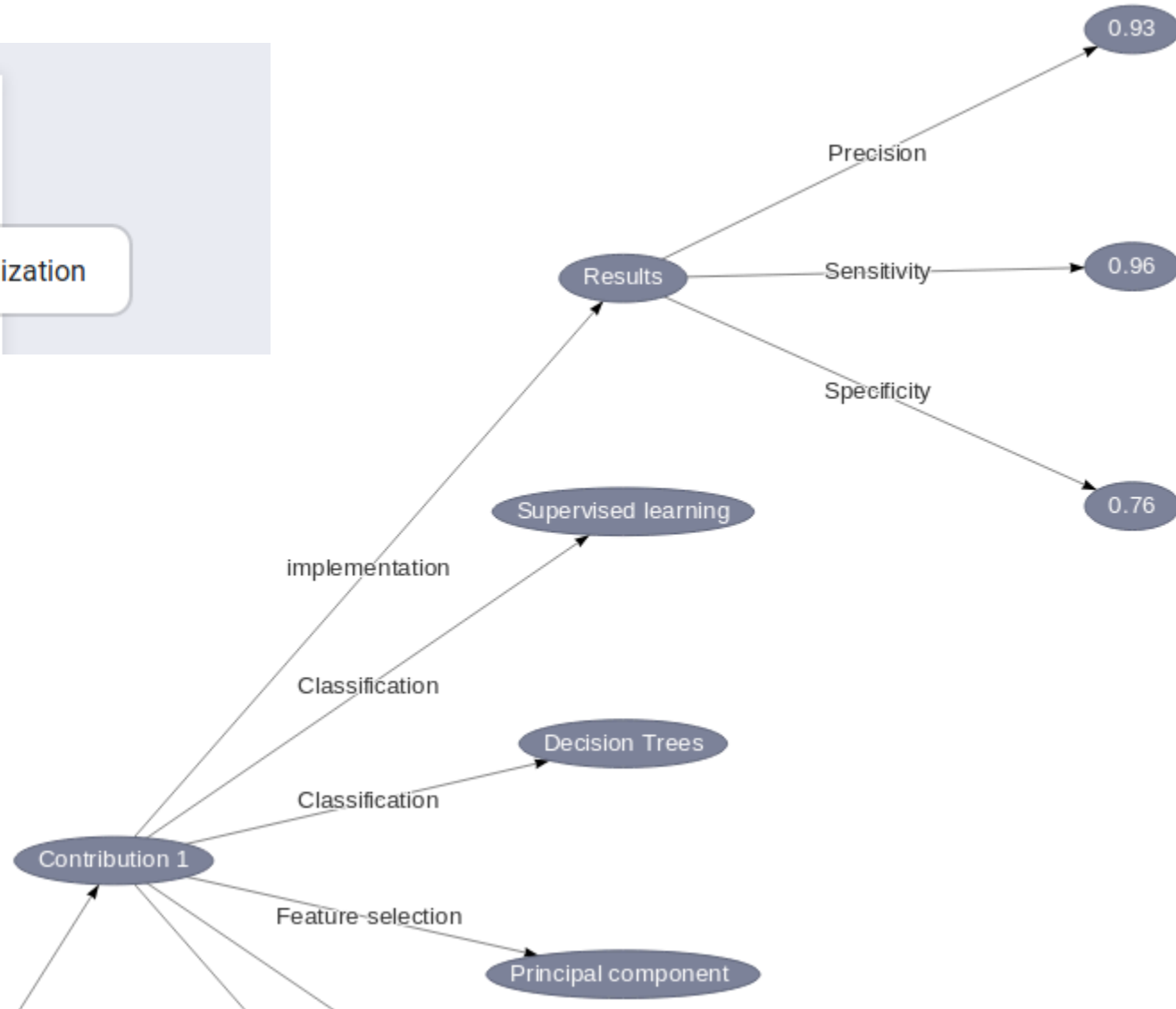
[Kotlin](#)

[Java](#)

Paper graph visualization

Options ⋮

Show graph visualization



Scientific Contributions Comparison

Properties	The Analysis of Heapsort Contribution 1	Efficient parallel merge sort for fixed and variable length keys Contribution 1	Quicksort Contribution 1	Algo a M Pro cont
Best complexity	$n \log n$	$n \log n$	$n \log n$	
Has research problem	<u>Sorting arrays</u> data sorting	Sorting algorithms	data sorting	
Method	Selection	Merging	Partitioning	
Programming language	Python	C++	Empty	
Stable	✗	✓	✓	
Worst complexity	$n \log n$	$n \log n$	n^2	



Demo Time



<https://labs.tib.eu/orkg/>

Future Work

- Domain-specific contribution curation UIs and visualizations
- Crowdsourcing features to facilitate collaboration



Gitlab: **TIBHannover/orkg**