

Empfehlungssysteme für Social Bookmarking

Robert Jäschke

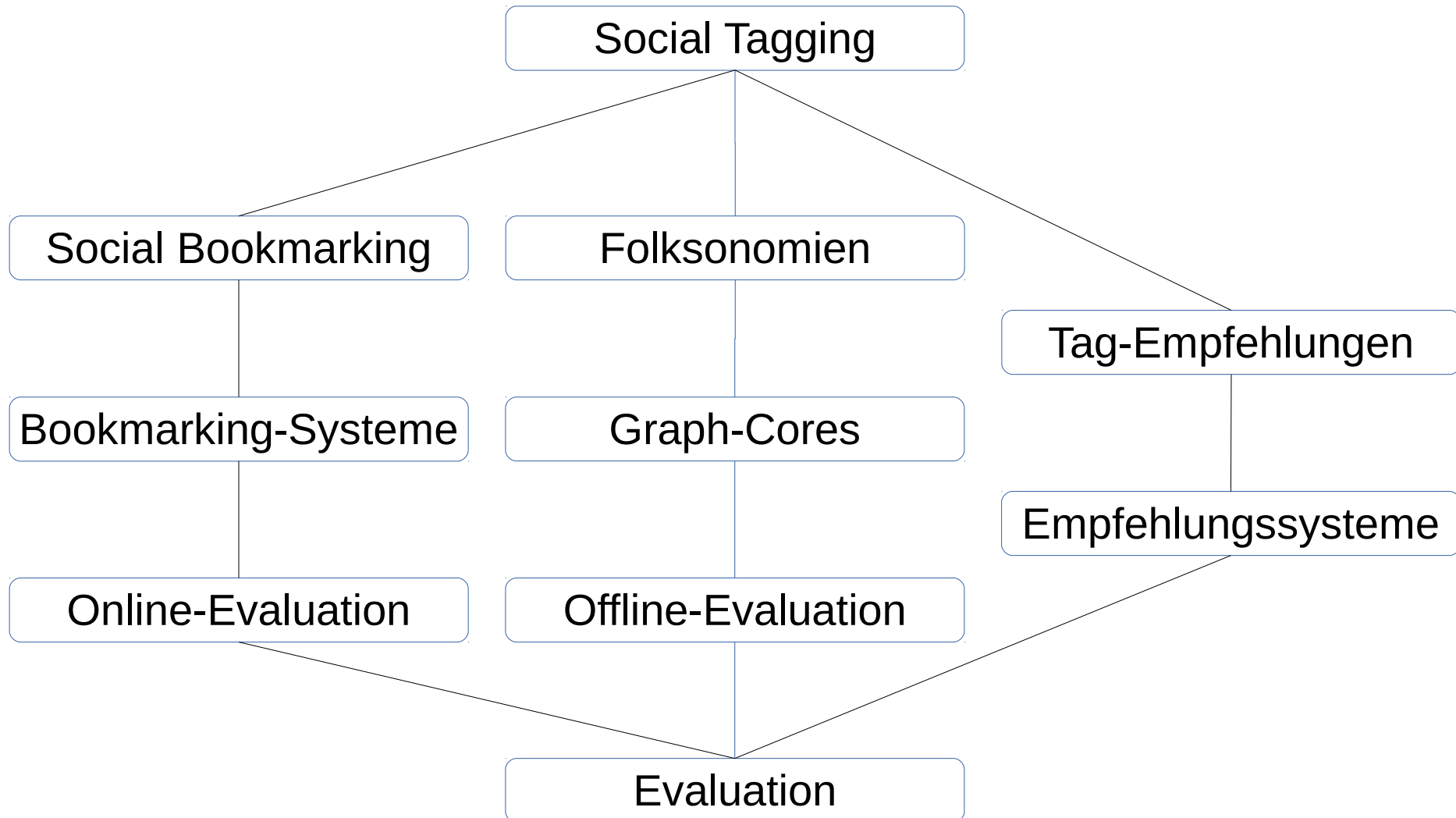


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Agenda

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Agenda





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Social Tagging



Social Tagging



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Yosemite and the Invention of Wilderness - NYTimes.com
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What she found was a view of nature, expressed in writing and photographs, that did not include people. And that, she wrote, is how Americans have come to think of the natural world. There is a small problem with this view. When white Americans first encountered Yosemite, it was a well-peopled landscape. It took soldiers to un-people it. The Yosemite Valley and the area near Lake Tenaya were home to the Ahwahneechee Indians. But the gold rush was on, the future beckoned, and Indians did not fit in.

Tags

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A. Burkhardt, and B. Nerlich (Eds.). . *De Gruyter*, (2010)

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dh epistemology language metaphor text trope

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Handbuch Open Science – Wikibooks, Sammlung freie...

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https://de.wikibooks.org/wiki/Handbuch_Open_Science

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Why does deep and cheap learning work so well?

3



H. Lin, and M. Tegmark. (2016) *cite arxiv:1608.08225* Comment: 14 pages, 3 figs.

6 days ago by @jaeschke

deep learning machine network neural

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Comparison of research networking tools and research...

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https://en.wikipedia.org/wiki/Comparison_of_research_...

2 months ago by @jaeschke

gaw network profile researcher

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Web Archiving: Issues and Methods

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J. Masanès. page 1--53. *Springer, Berlin/Heidelberg*, (2006)

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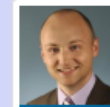
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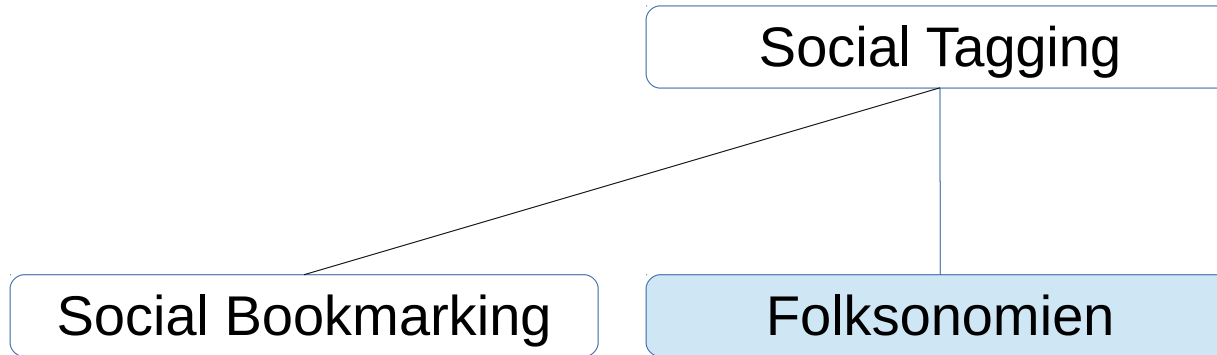
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Folksonomie

- Struktur von Social-Tagging-Systemen
- Verknüpft Benutzer, Tags und Ressourcen
- Begriffliche Struktur, durch Beitrag vieler Menschen entstanden



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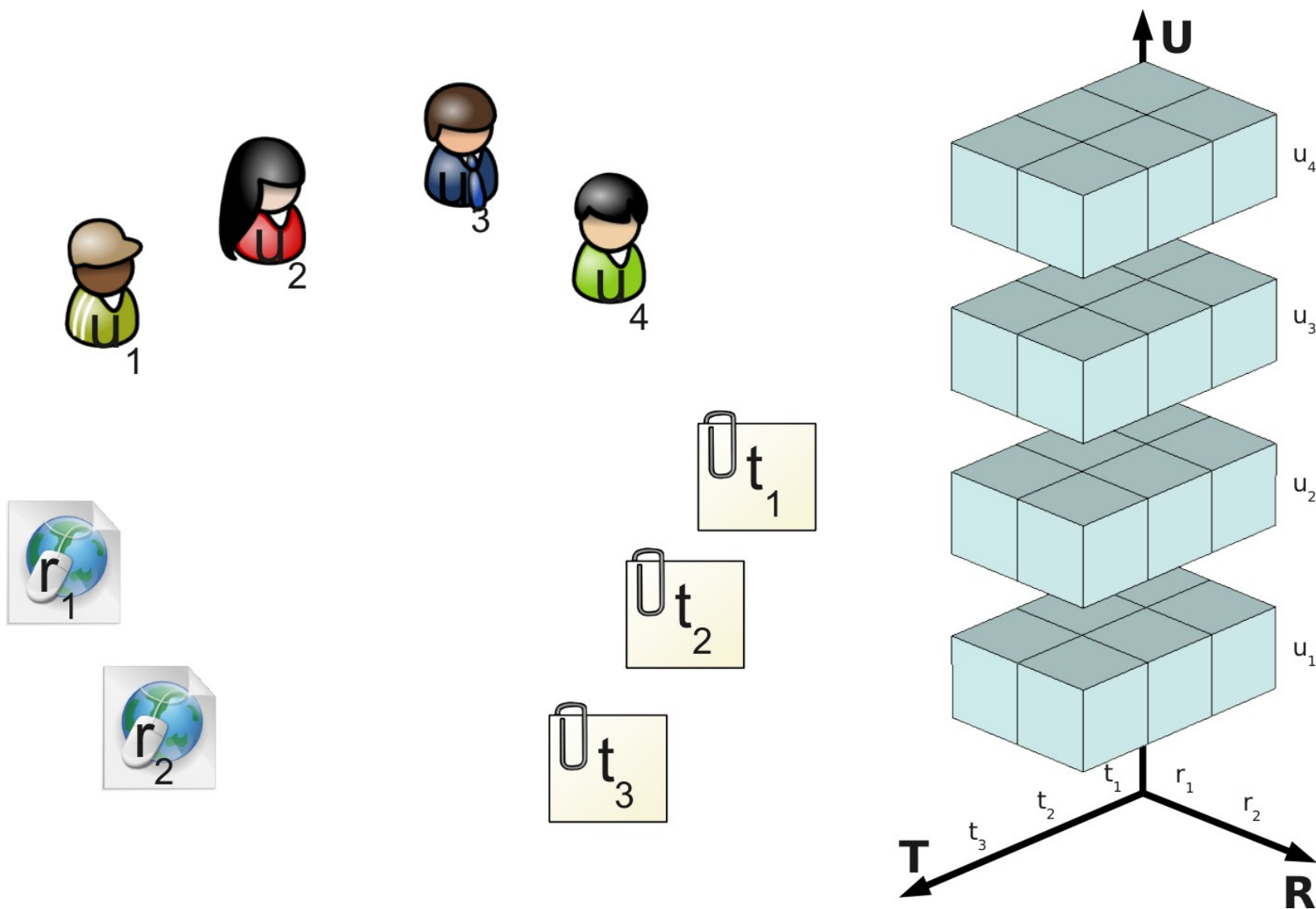
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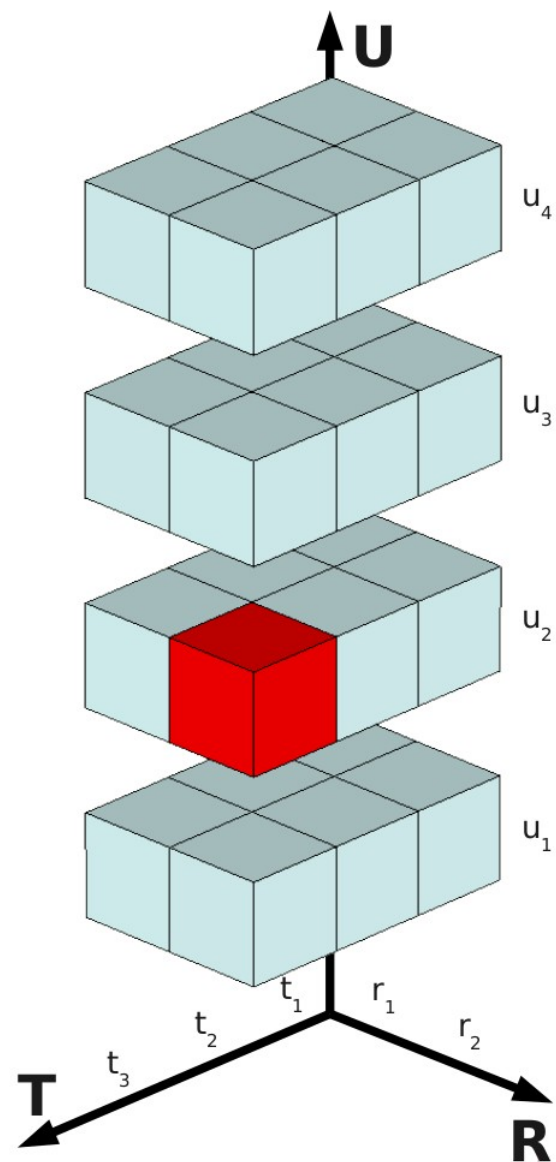
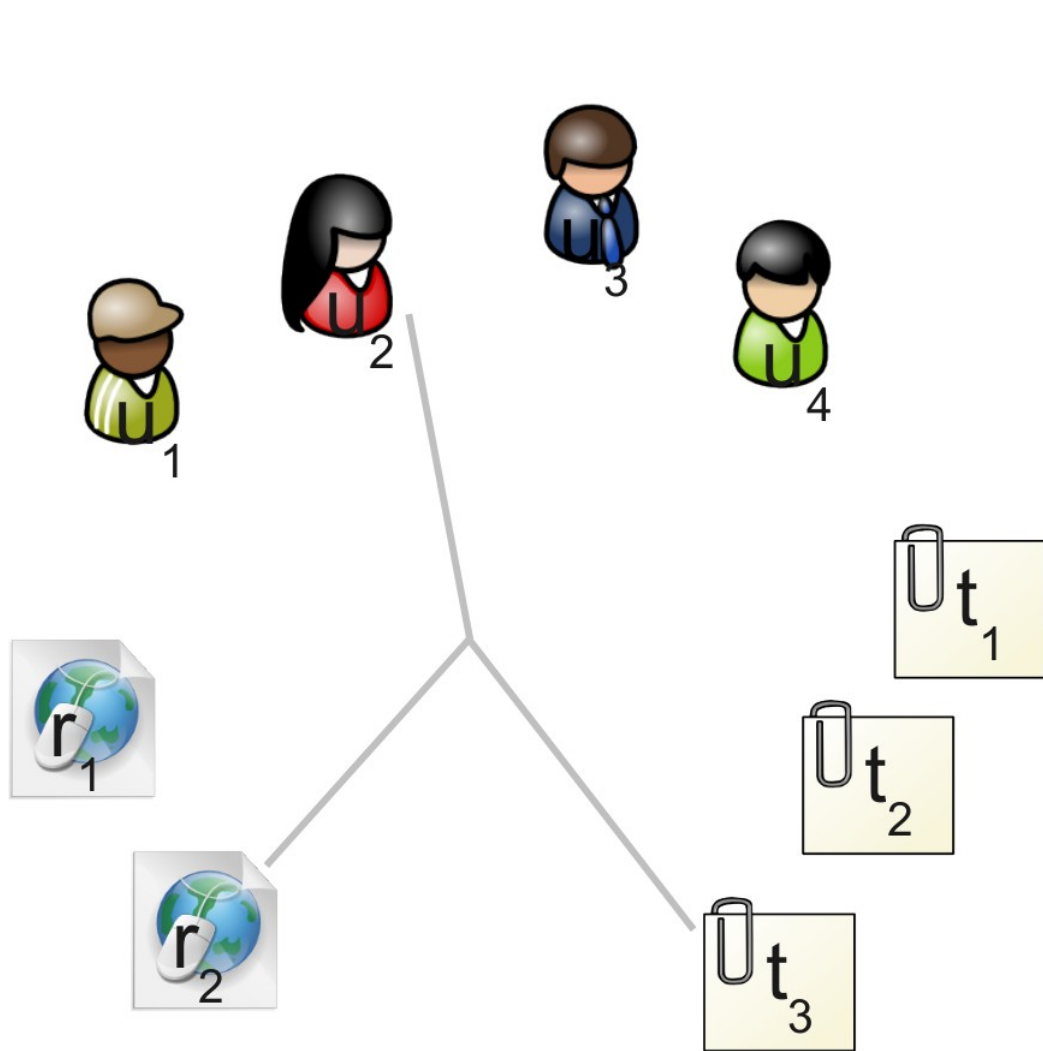


Folksonomie



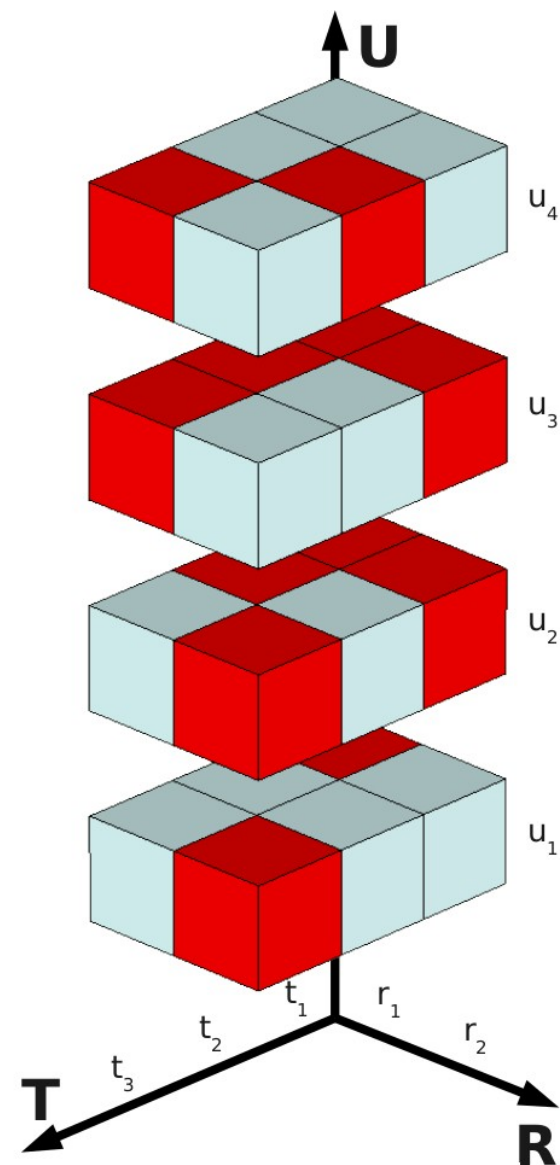
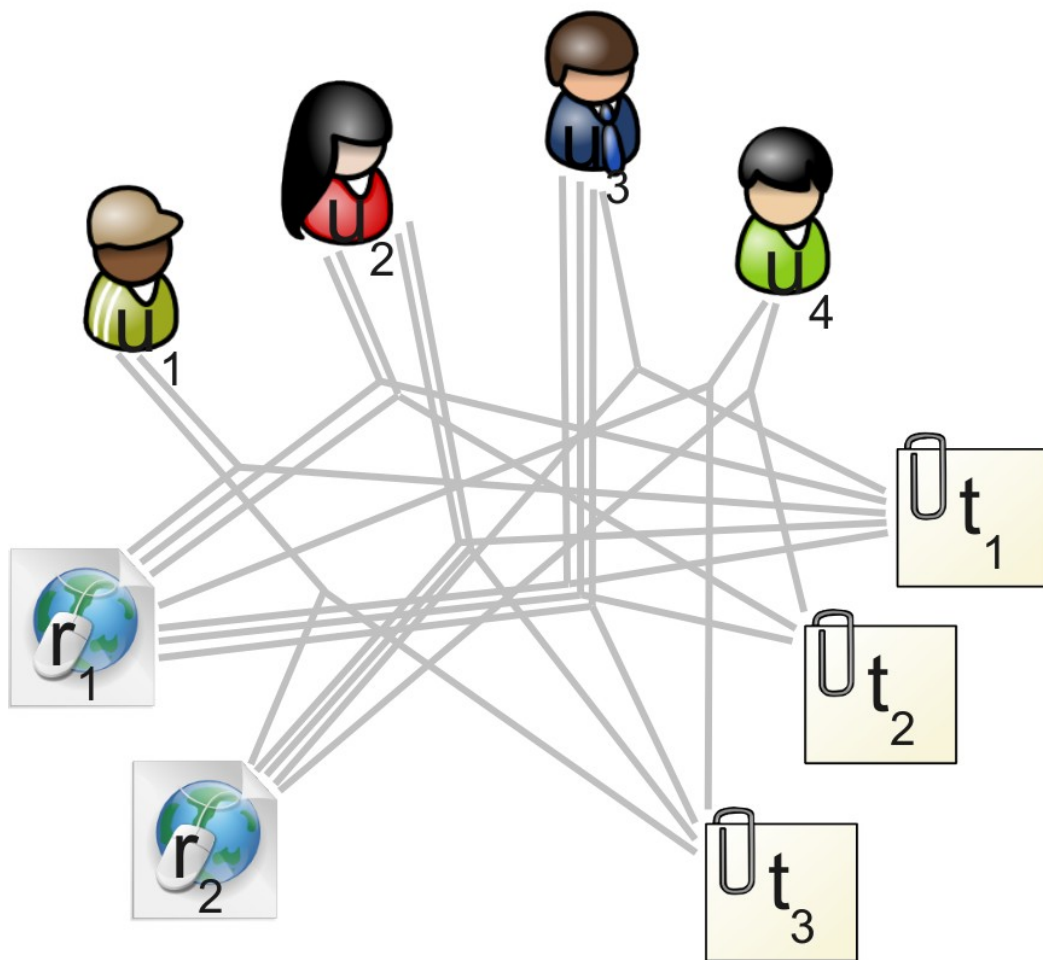


Folksonomie





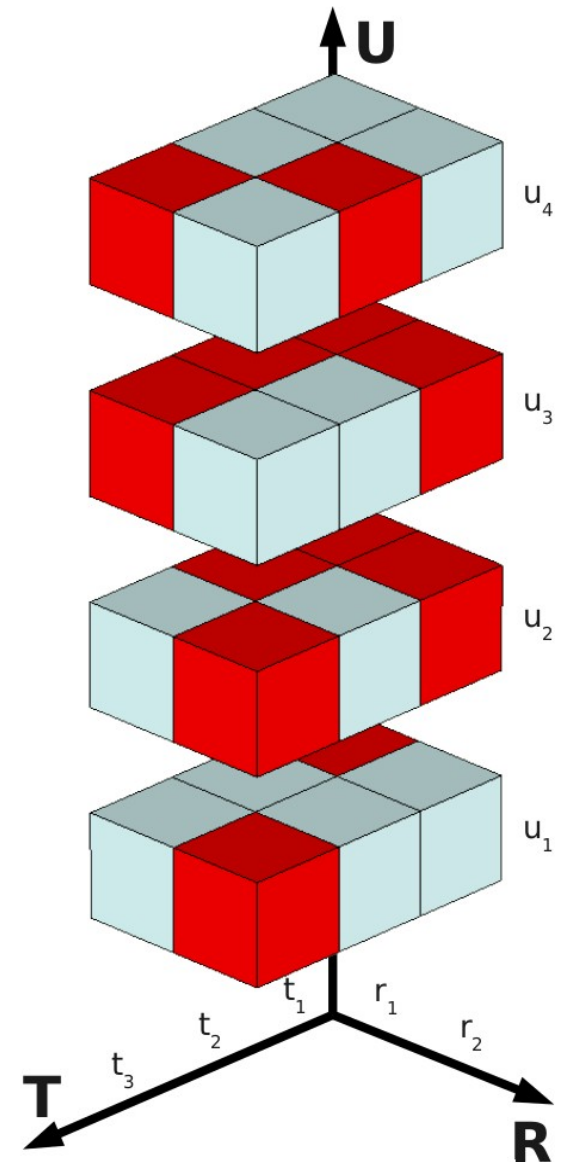
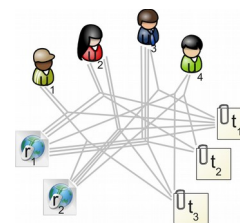
Folksonomie



Folksonomie

$F := (U, T, R, Y)$ mit

- U, T, R endliche Mengen von Benutzern, Tags und Ressourcen
 - $Y \subseteq U \times T \times R$ ternäre Relation
-
- Tripartiter Hypergraph
 - Boolescher 3-dimensionaler Tensor
 - Triadischer Formaler Kontext



Folksonomie

bookmarks 3



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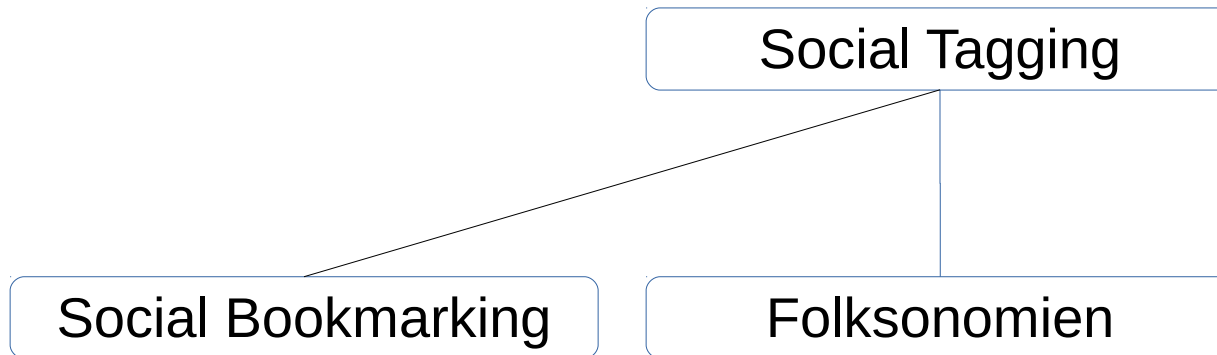
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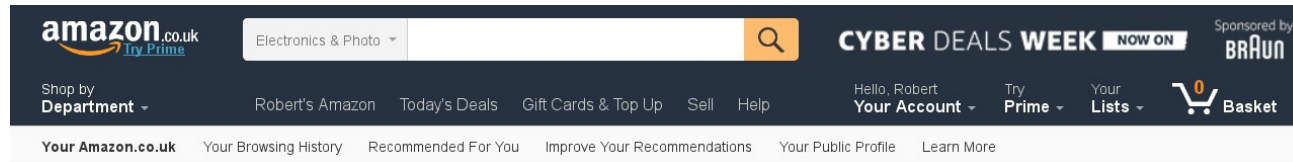
ein “Post”

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by TECHGEAR (20 May 2016)

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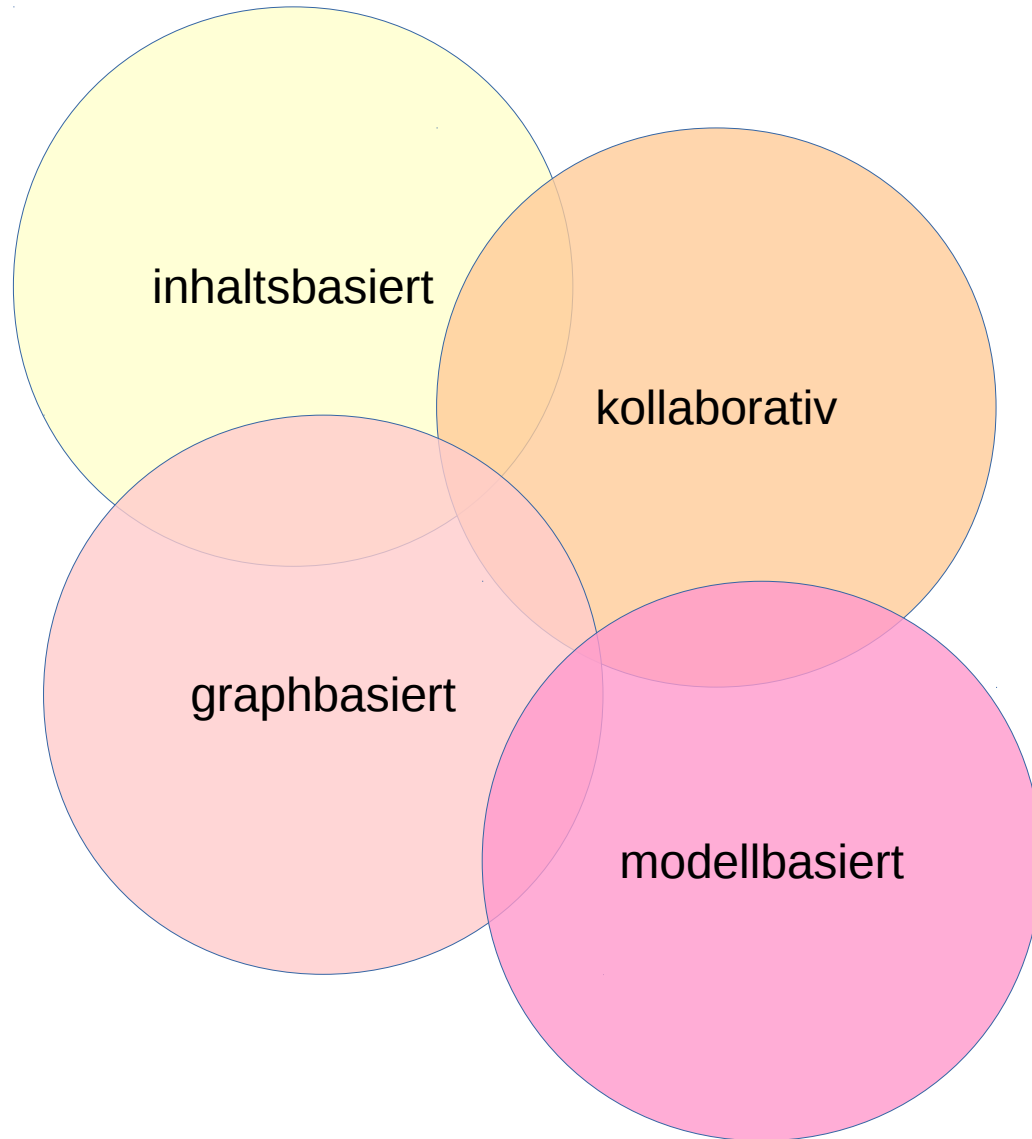
[T. Niebler](#), [M. Becker](#), [D. Zoller](#), [S. Doerfel](#)... - [Proceedings of the 25th ...](#), 2016 - [dl.acm.org](#)
vor 34 Tagen - Abstract Social tagging systems have established themselves as a quick and easy way to organize information by annotating resources with tags. In recent work, user behavior in social tagging systems was studied, that is, how users assign tags, and consume
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Tag2Word: Using Tags to Generate Words for Content Based Tag Recommendation

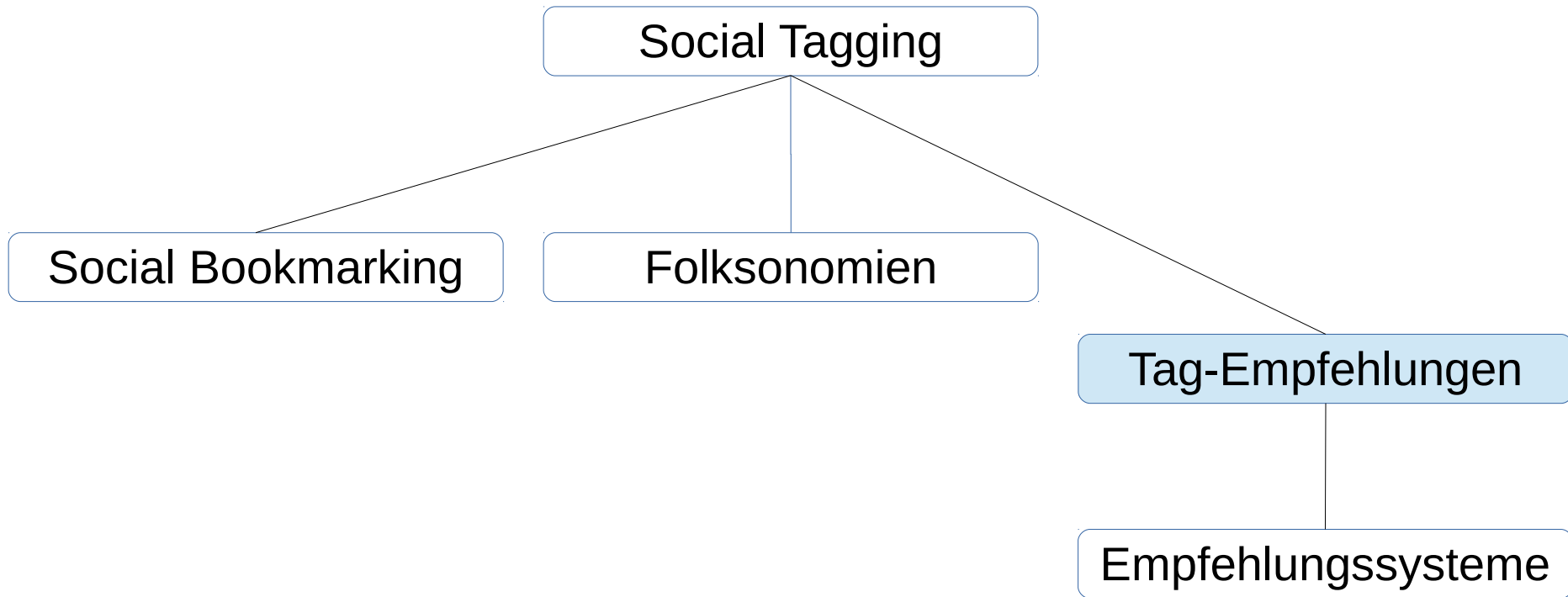
[Y. Wu](#), [Y. Yao](#), [F. Xu](#), [H. Tong](#), [J. Lu](#) - ... of the 25th ACM International on ..., 2016 - [dl.acm.org](#)
vor 34 Tagen - Abstract Tag recommendation is helpful for the categorization and searching of online content. Existing tag recommendation methods can be divided into collaborative filtering methods and content based methods. In this paper, we put our focus on the content
[Zitiert Tag recommendations in social bookmarking systems](#) [Zitieren](#) [Speichern](#)



Empfehlungssysteme



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Tag-Empfehlungen

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ein “Post”

$(u, r, T_{u,r})$ mit $T_{u,r} := \{t \in T \mid (u, r, t) \in Y\}$

Tag-Empfehlungen

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general information

url*

title*

description, comment

tags*

(space separated)

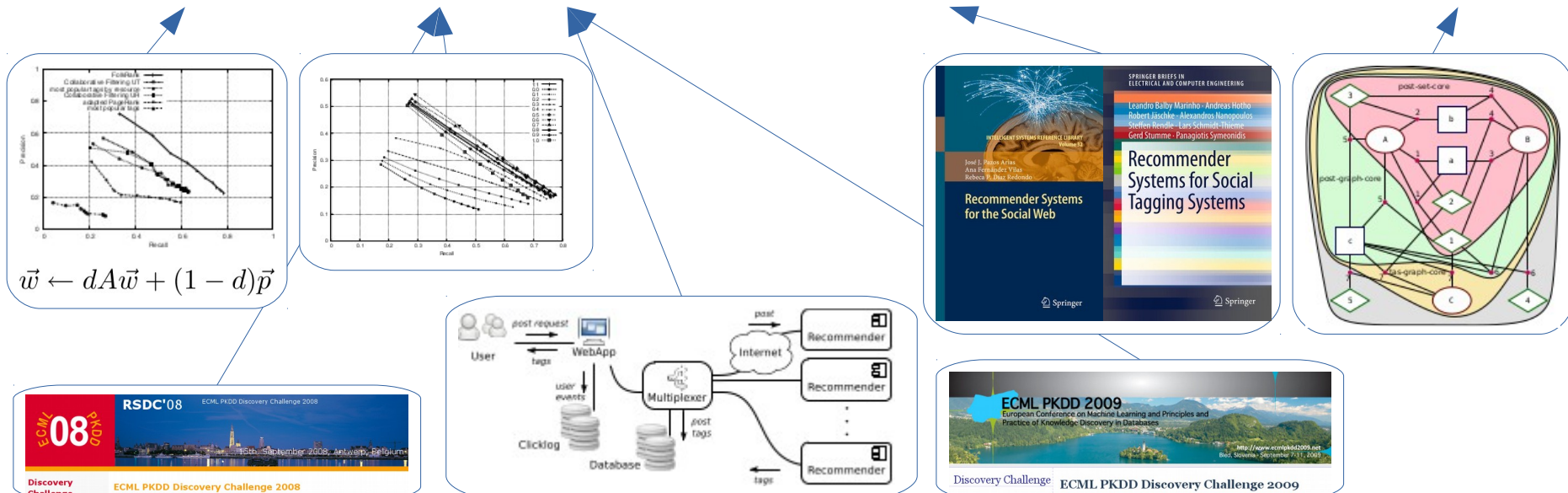
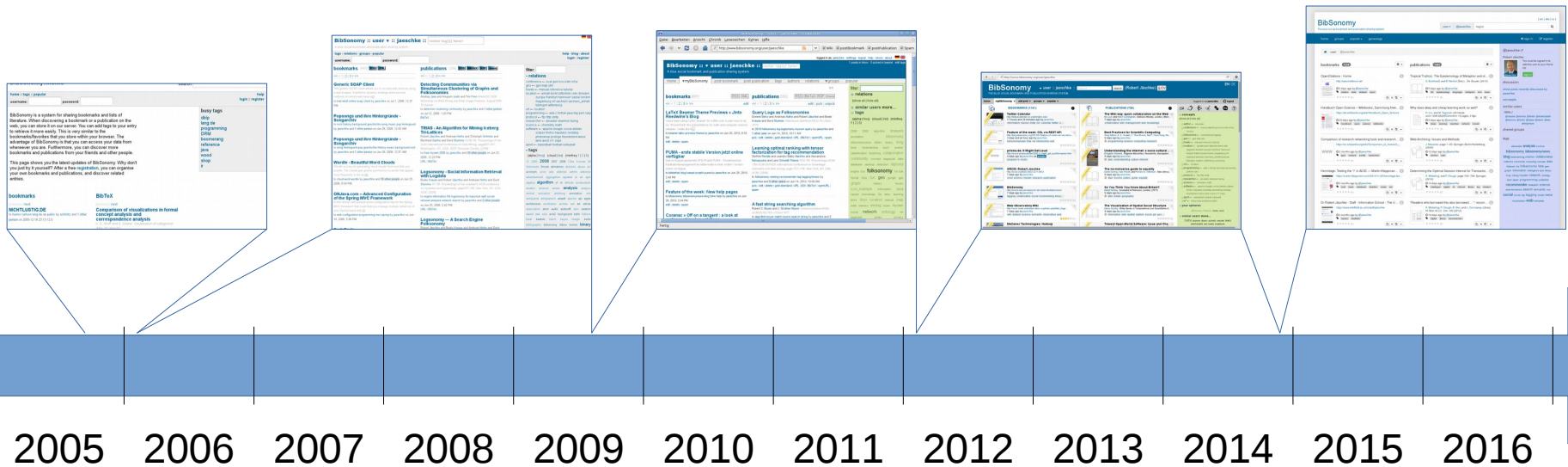
recommendation **recognition recht**

tags of copied item **conference 2007 2009 rs systems**

systems 2008 acm pc recommender conference

- Benutzer unterstützen – Chance auf (gute) Annotation erhöhen
- Geringerer kognitiver Aufwand: Erkennen statt Erzeugen
- Verschiedene Aspekte einer Ressource aufzeigen
- Angleichung des Vokabulars

Tag-Empfehlungen



Tag-Empfehlungen

	Aufgabe
	für Nutzer u und Ressource r eine Menge von n Tags $T(u,r)$ empfehlen

häufige Tags

- für jedes Tag: Vorkommen in Posts zählen
- die n häufigsten Tags
 1. im System: “most popular”
 2. des Nutzers: “most popular by user”
 3. der Ressource: “most popular by resource”
- gewichtetes Mittel zwischen 1 und 2: “most popular ρ -mix”

kollaboratives Filtern

(Sarwar, Karypis, Konstan, Riedl, 2001: Item-based Collaborative Filtering Recommendation Algorithms)

- Nutzerprofile x_u (Nutzer u hat Ressource r mit $x_{u,r} \in \mathbf{R}$ bewertet)
- k -Nachbarschaft von Nutzer u : $N_{u,k} := k \arg \max_{v \in U} \text{sim}(x_u, x_v)$
- Empfehlung von n Tags für Nutzer u und Ressource r :

$$T(u, r) := n \arg \max_{t \in T} \sum_{v \in N_{u,k}} \text{sim}(x_u, x_v) \delta(v, t, r)$$

mit $\delta(v, t, r) := 1$ wenn $(v, t, r) \in Y$, sonst 0

Nutzerprofile:

- UR: $x_{u,r} := 1$ wenn r von u getaggt wurde, sonst 0
- UT: $x_{u,t} := 1$ wenn t von u genutzt wurde, sonst 0

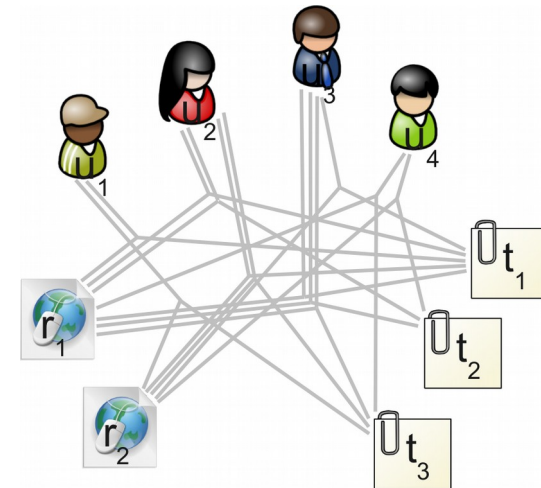
FolkRank

(Hotho, Jäschke, Schmitz, Stumme,
2006: Information Retrieval in
FolkSonomies: Search and Ranking)

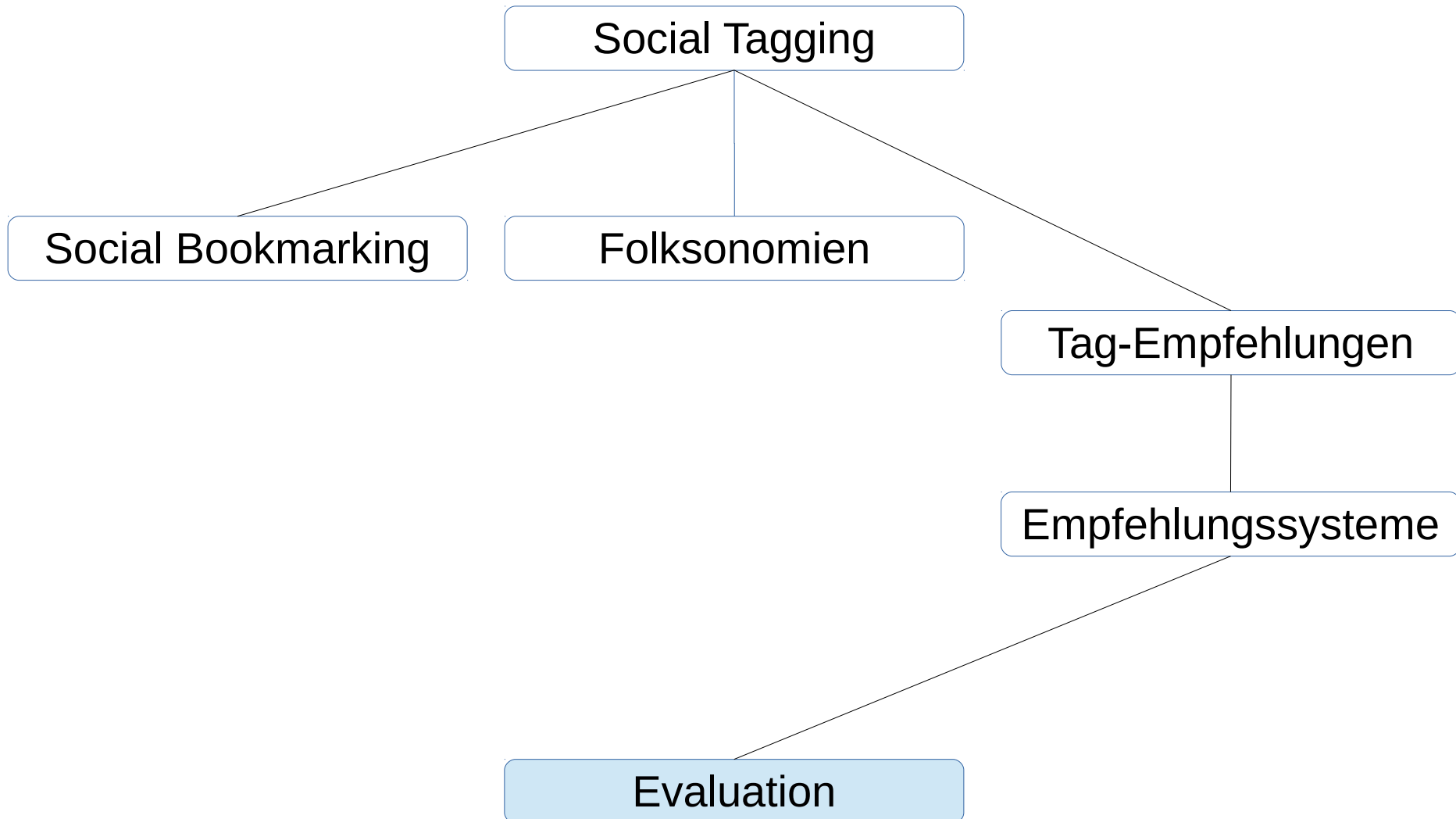
- jede Hyperkante ergibt sechs gerichtete Kanten
- iterative Gewichtsverteilung wie bei PageRank:

$$w \leftarrow dAw + (1 - d)p$$

- differenzieller Ansatz:
 - w_0 : Fixpunkt mit $p = 1$
 - w_1 : Fixpunkt mit $p \neq 1$ und ein $p_i \gg 0$
- FolkRank: $w := w_1 - w_0$
- Empfehlung:
 - Präferenz für Nutzer u und Ressource r in p (p_u und $p_r \gg 0$)
 - $T(u, r) :=$ Menge der top- n Tags mit dem höchsten FolkRank



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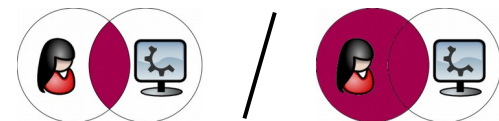
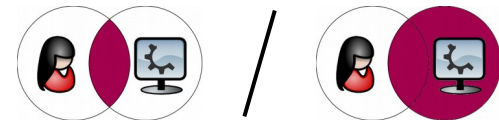
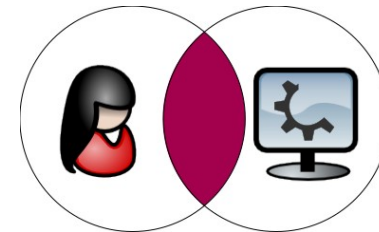
Evaluation

Kriterium

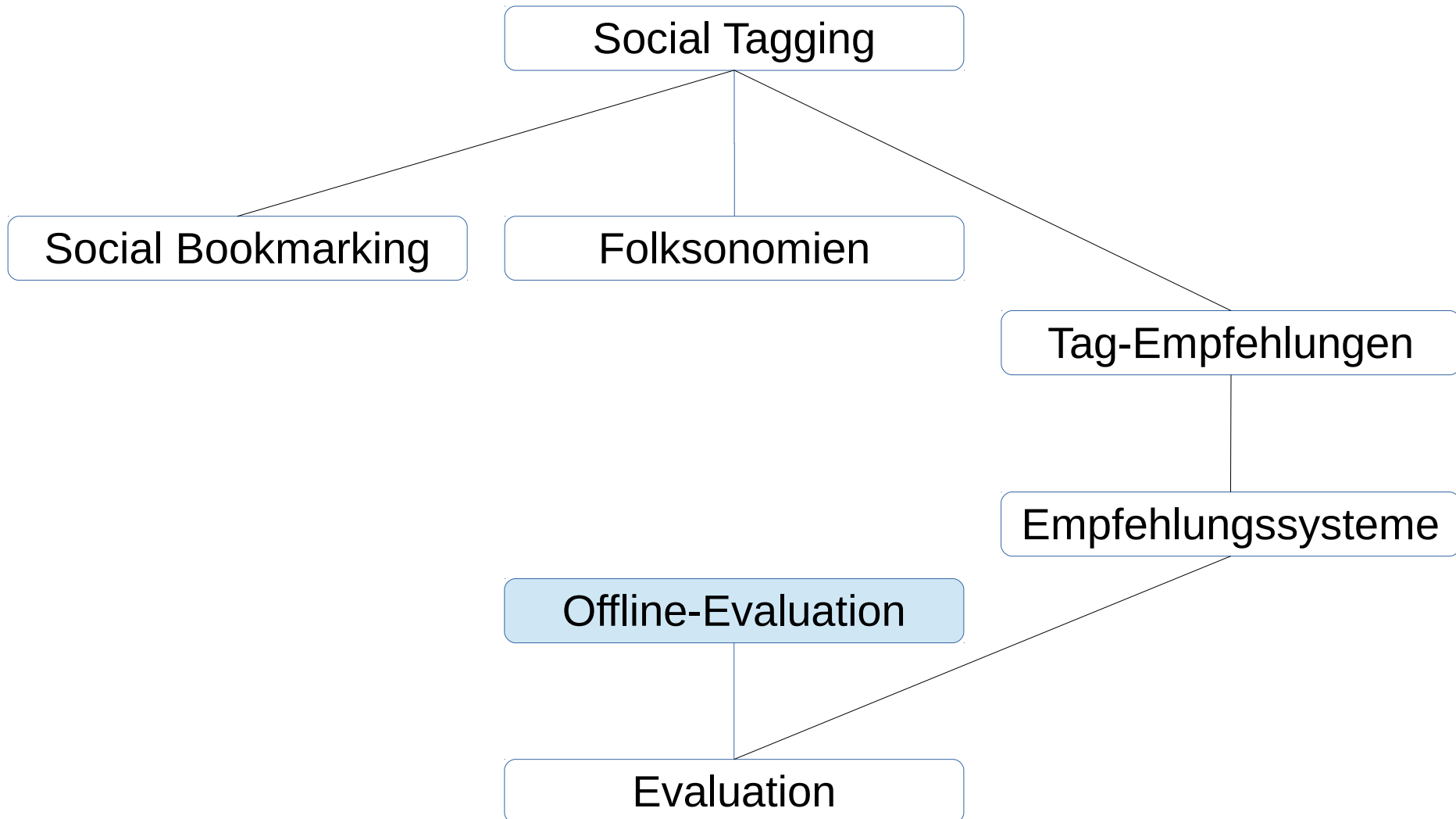
- empfohlene Tags $T(u,r)$ mit den tatsächlichen Tags $T_{u,r}$ vergleichen

Maße

- Precision:** Anteil der richtig vorhergesagten unter allen vorhergesagten Tags
- Recall:** Anteil der richtig vorhergesagten unter allen vom Nutzer annotierten Tags
- F1-Maß:** harmonisches Mittel zwischen Precision und Recall



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Offline-Evaluation

LeavePostOut

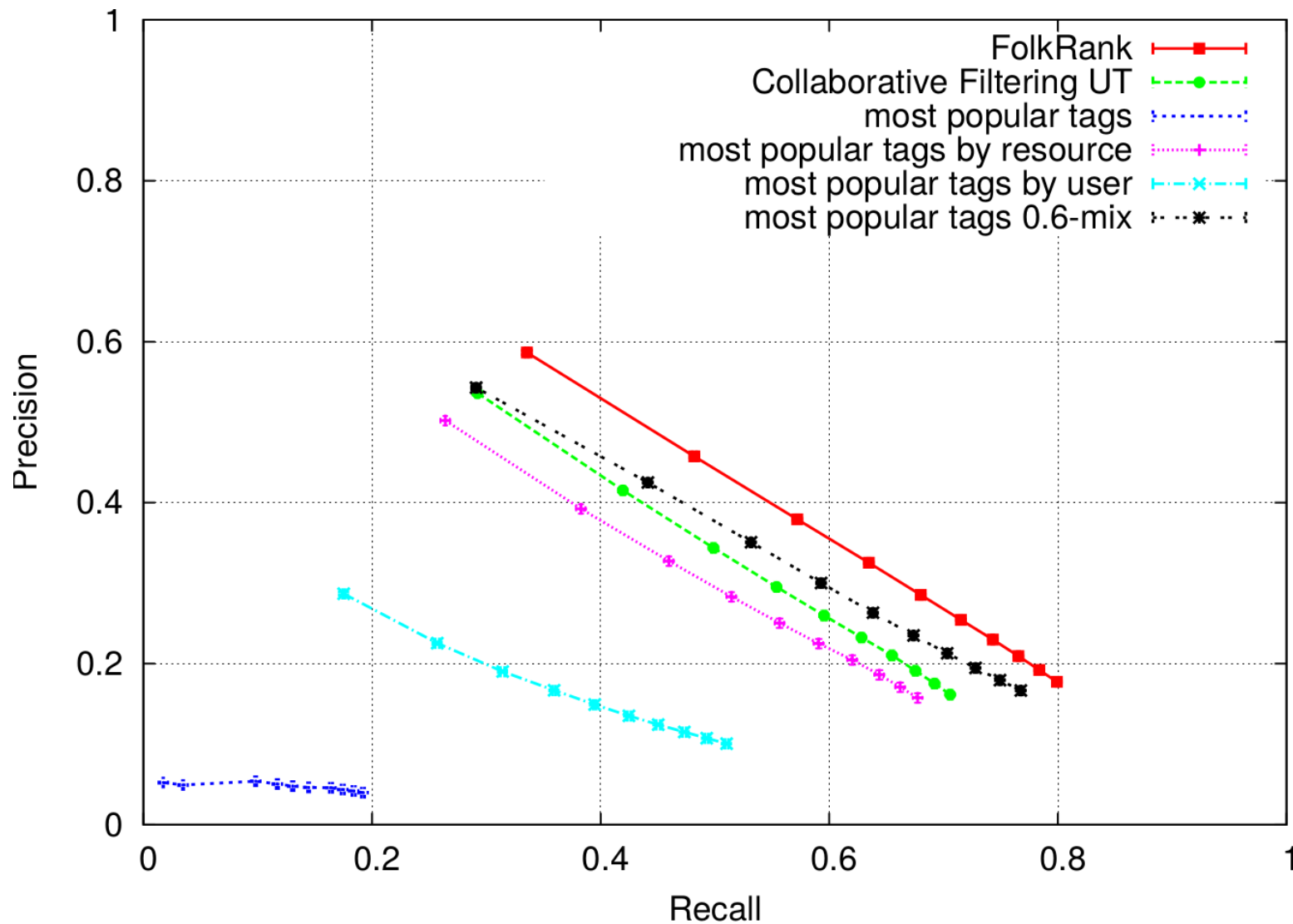
- Variante der “leave-one-out hold-out estimation” (Herlocker et al., 2004)
- für jeden Nutzer zufällig eigenen Post $(u, r, T_{u,r})$ wählen
- Tags für diesen Post vorhersagen, basierend auf $\mathbf{F} \setminus (\{u\} \times \{t\} \times T_{u,r})$

Datensätze

Datensatz	k	$ U $	$ T $	$ R $	$ Y $	Datum
Delicious	10	37 399	22 170	74 874	7 487 319	2005-07-30
Last.fm	10	2 917	2 045	1 853	219 702	2006-07-01
BibSonomy	5	116	412	361	10 148	2007-04-30



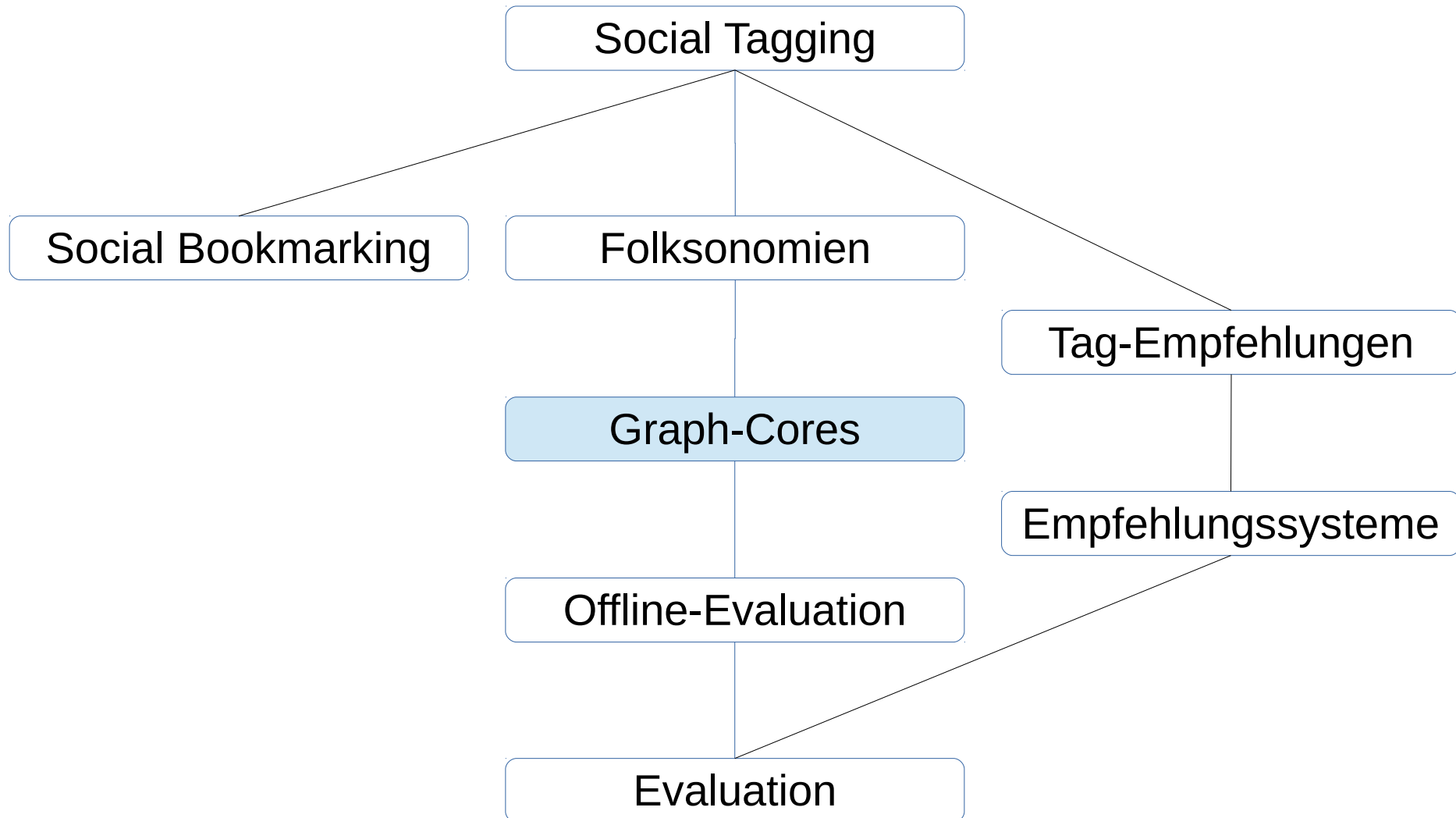
Offline-Evaluation



Lessons Learned

- FolkRank besser als kollaboratives Filtern
- Most Popular Tags:
 - Ressourcen-spezifisch am besten
 - Mix leicht besser als kollaboratives Filtern
 - einfach zu berechnen

Agenda



Graph-Cores

- Fokus auf “dichten” Teil der Daten (Sarwar et al., 2001)
- Adaption sogenannter p -Cores (Batagelj und Zaversnik, 2002)
- p -Core at k einer Folksonomie: jeder Nutzer, jedes Tag, jede Resource taucht in mindestens k Posts auf

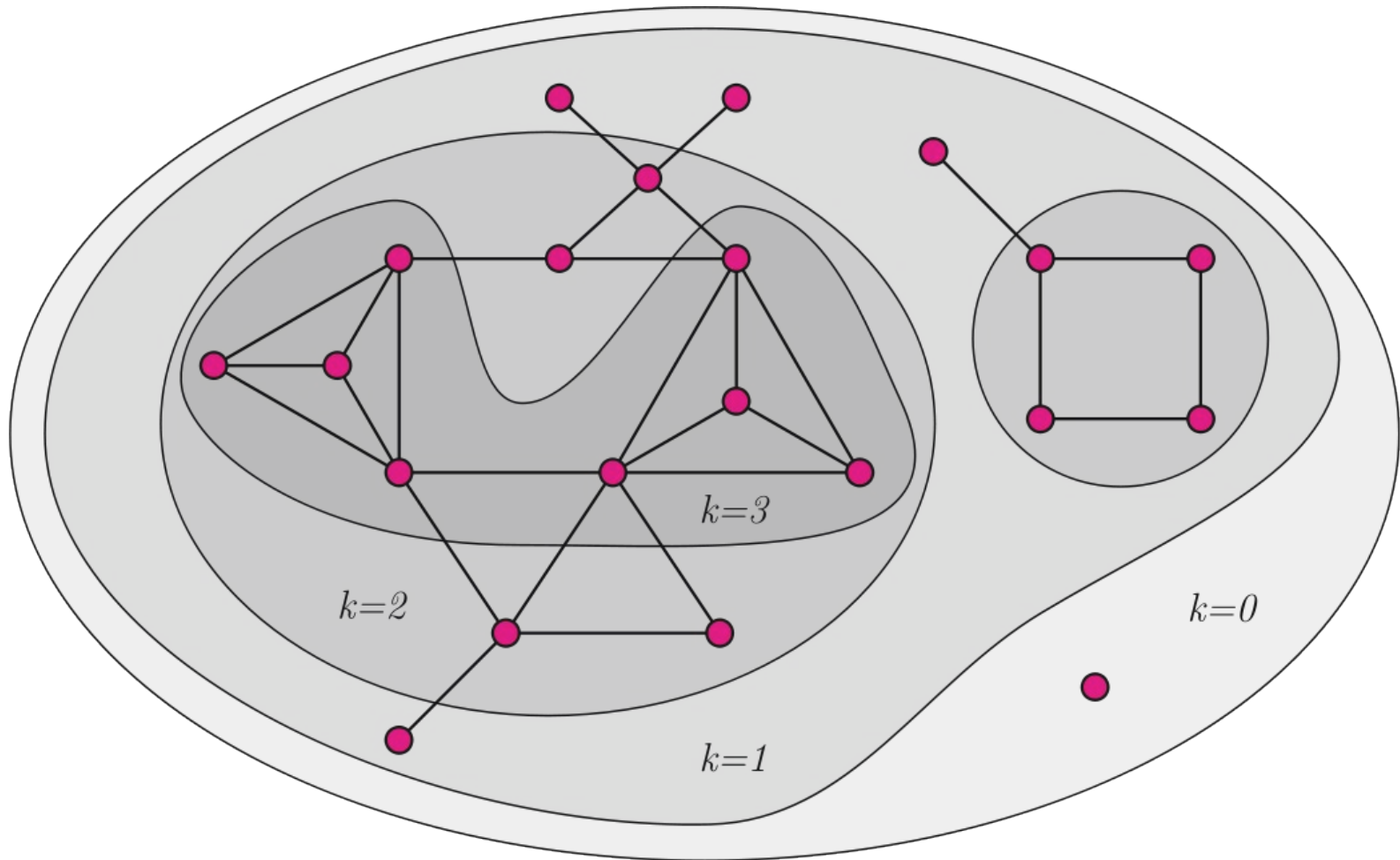
Graph-Cores

- häufig verwendet:
 - Jäschke et al., 2007: $k \in \{5, 10\}$
 - Krestel et al., 2009: $k = 100$
 - Ramezani, 2011: $k \in \{5, 20\}$
 - Seitlinger et al., 2013: $k = 14$
 - Ma et al., 2013: $k \in \{5, 9\}$
 - Nanopoulos et al., 2013: $k \triangleq 0.001\%$

Wie beeinflusst diese “Verdichtung” die Evaluation?

Graph-Cores

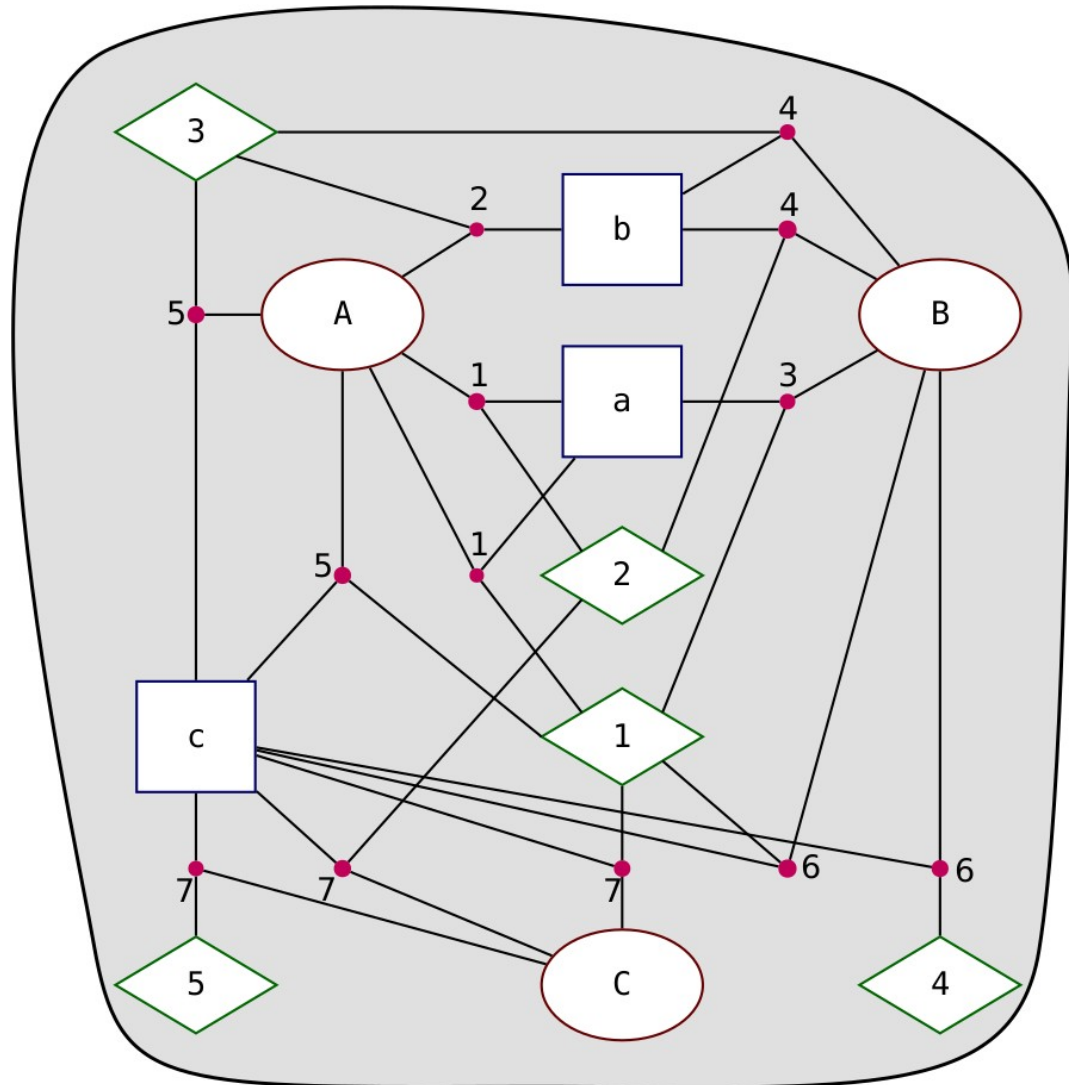
(Seidman, 1983; Batagelj and Zaveršnik, 2002)



Core at level k : maximaler Subgraph, in dem jeder Knoten mindestens Grad k hat

Cores in Folksonomien

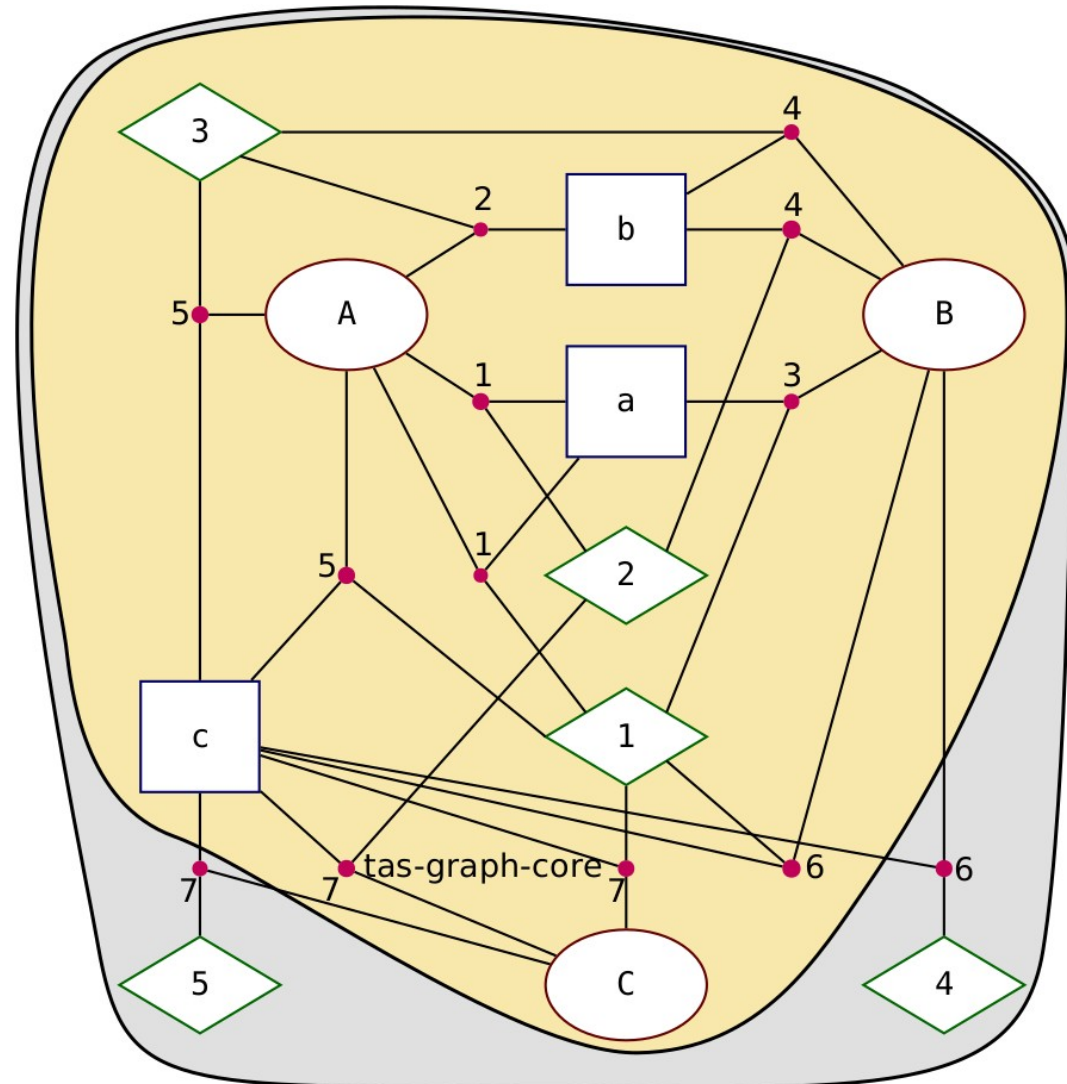
Eine Beispiel-Folksonomie mit drei Nutzern A, B, C, drei Ressourcen a, b, c und fünf Tags 1, 2, 3, 4, 5 in sieben Posts.



Cores in Folksonomien

- **tas-graph-core at level 2**

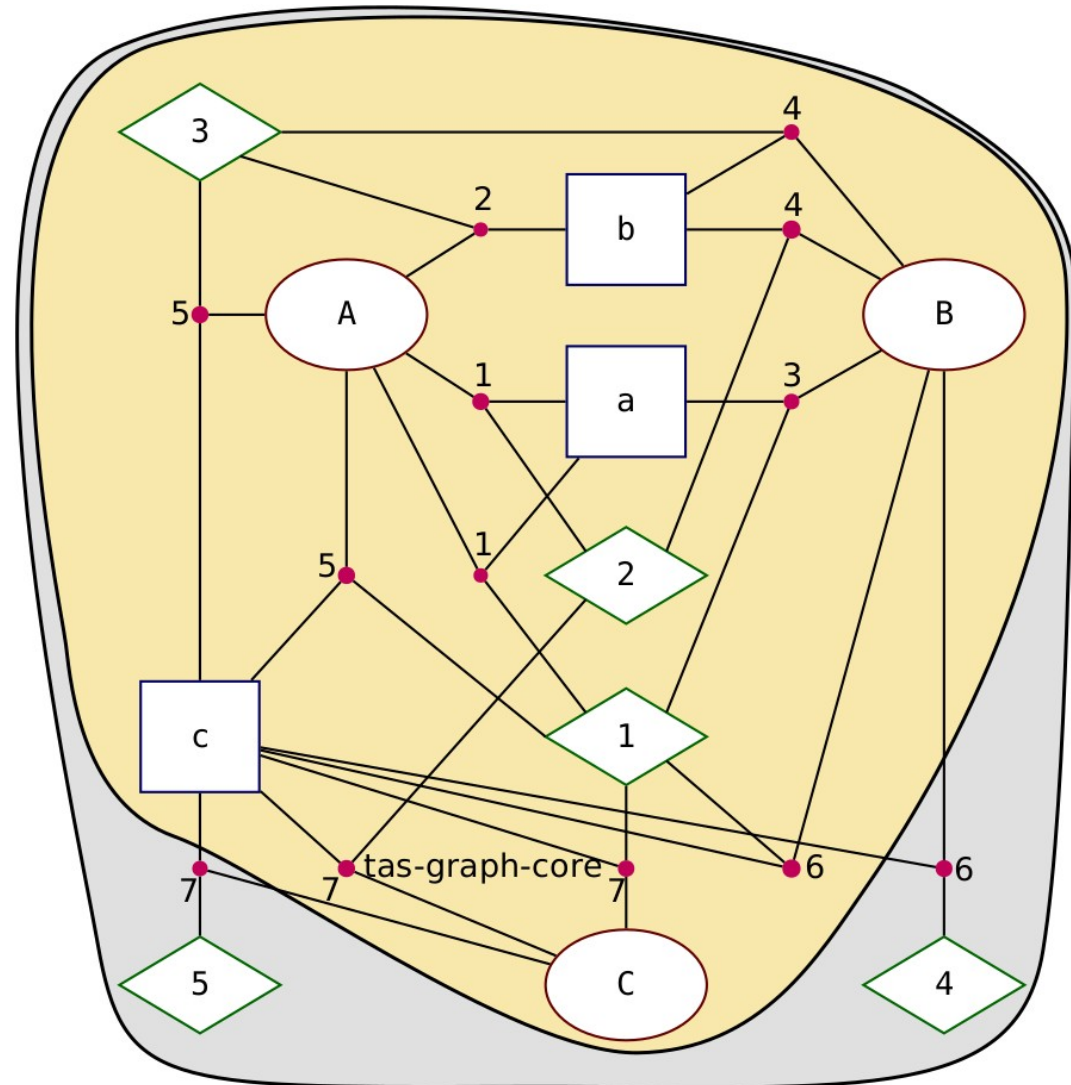
Eine Beispiel-Folksonomie mit drei Nutzern A, B, C, drei Ressourcen a, b, c und fünf Tags 1, 2, 3, 4, 5 in sieben Posts.



Cores in Folksonomien

- **tas-graph-core at level 2:**
Tag benötigt zwei Posts,
User/Ressource nur einen

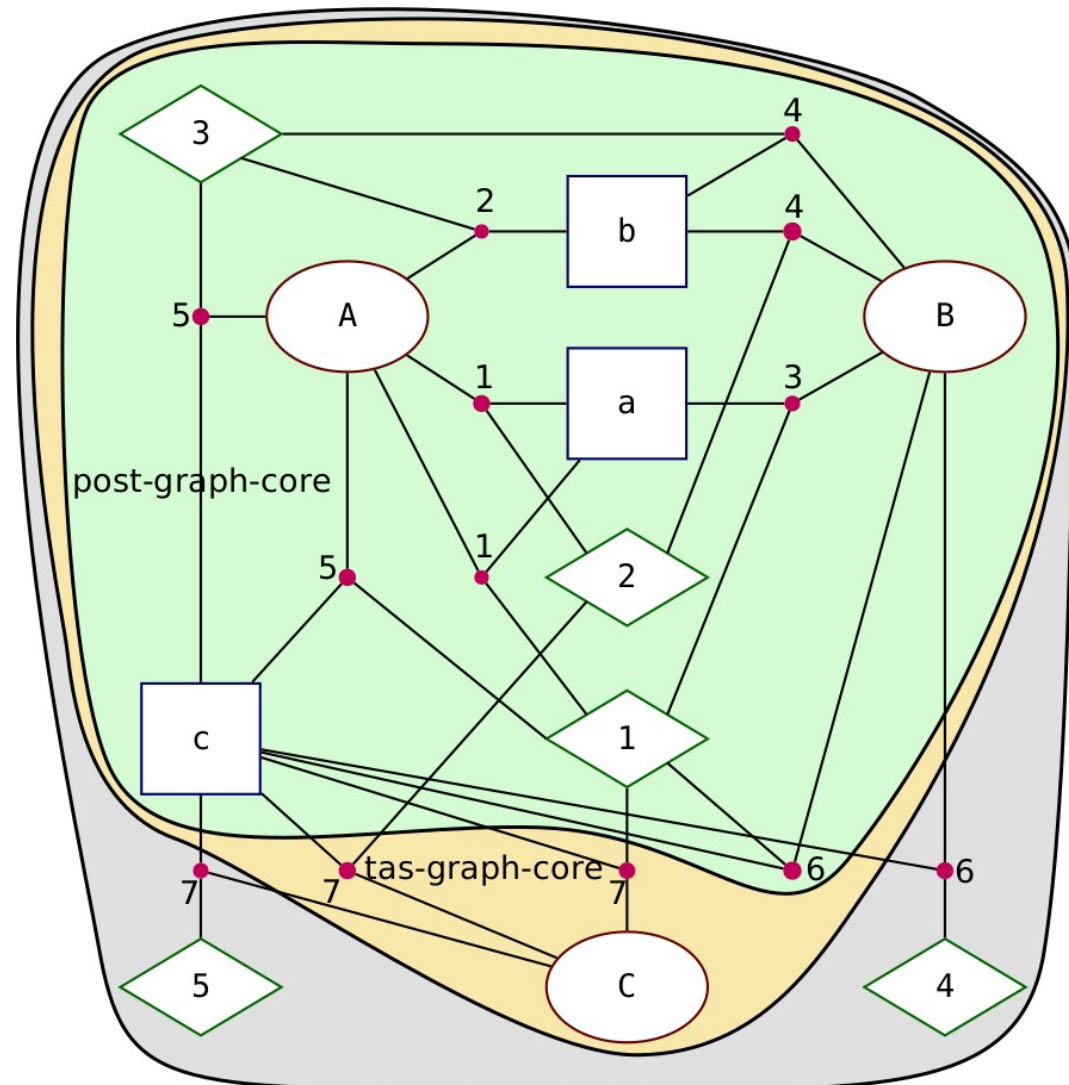
Eine Beispiel-Folksonomie mit drei Nutzern A, B, C, drei Ressourcen a, b, c und fünf Tags 1, 2, 3, 4, 5 in sieben Posts.



Cores in Folksonomien

- **tas-graph-core at level 2:**
Tag benötigt zwei Posts,
User/Ressource nur einen
- **post-graph-core at level 2**

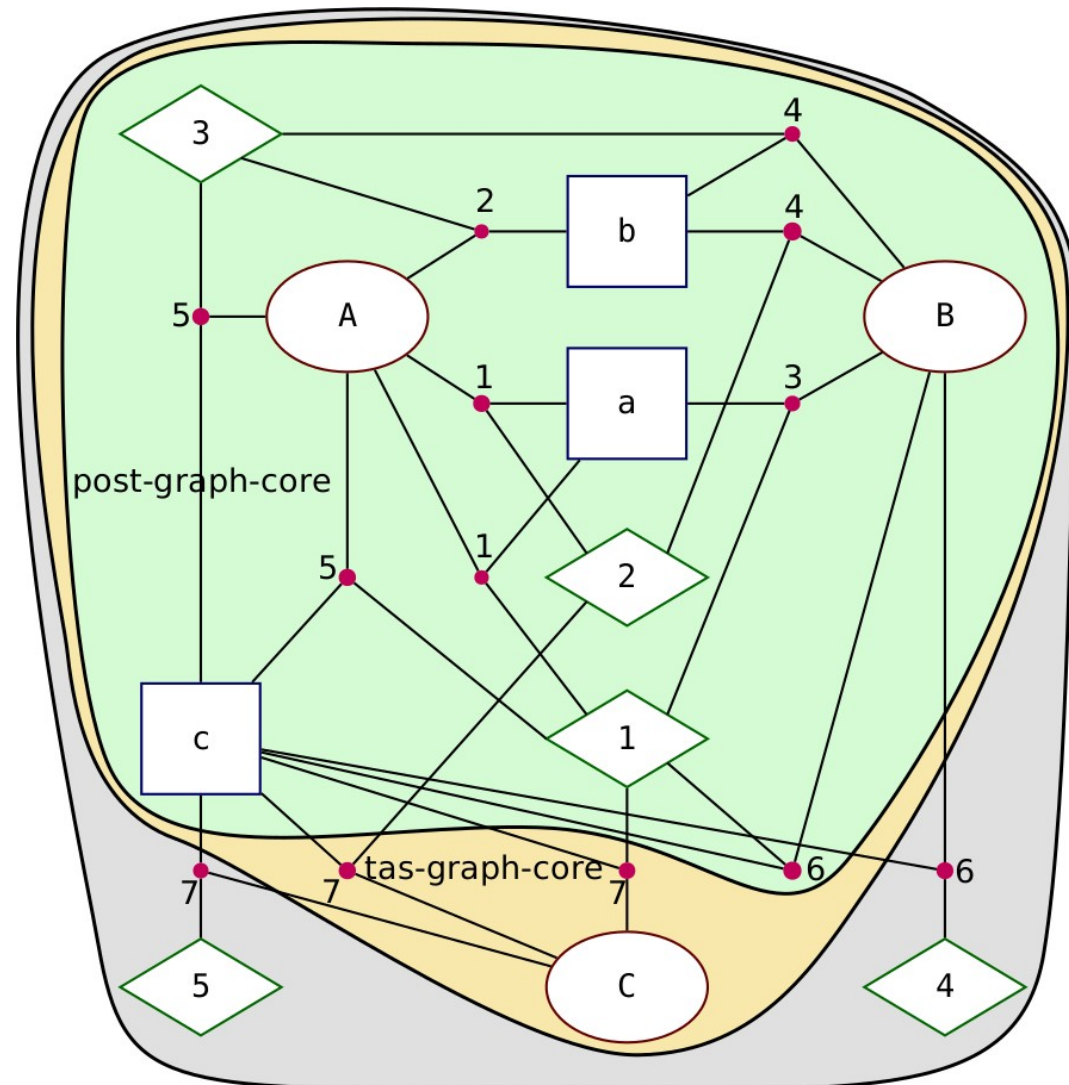
Eine Beispiel-Folksonomie mit drei Nutzern A, B, C, drei Ressourcen a, b, c und fünf Tags 1, 2, 3, 4, 5 in sieben Posts.



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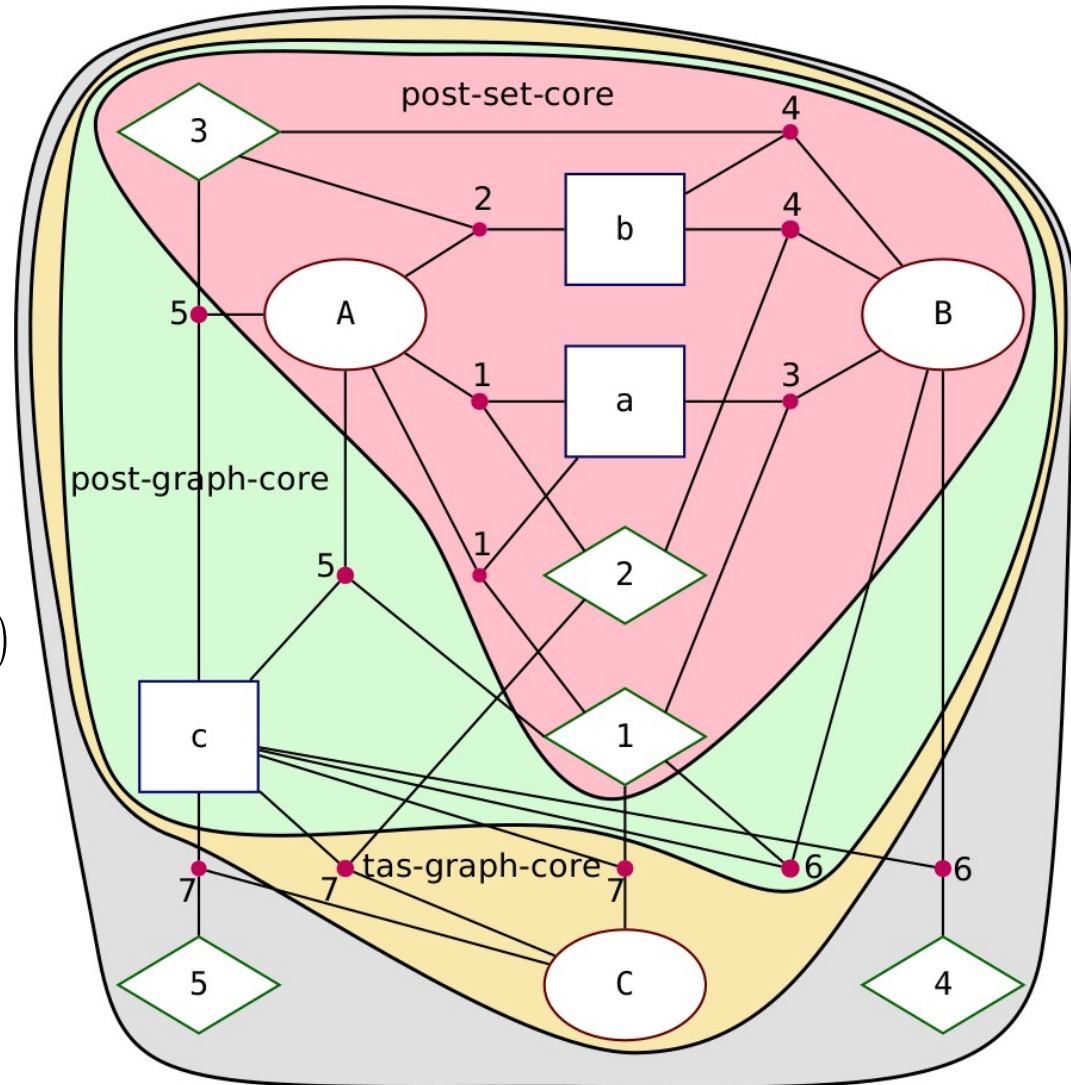


Cores in Folksonomien

- **tas-graph-core at level 2:**
Tag benötigt zwei Posts, User/Ressource nur einen
- **post-graph-core at level 2:**
Posts unvollständig – Tags fehlen
- **post-set-core at level (2,2,2):**

$$p_{\tilde{S}}:(u, r, T_{u,r}) \rightarrow (|\tilde{S}_u|, |\tilde{S}_r|, \min_{t \in T_{u,r}} |\tilde{S}_t|)$$

Eine Beispiel-Folksonomie mit drei Nutzern A, B, C, drei Ressourcen a, b, c und fünf Tags 1, 2, 3, 4, 5 in sieben Posts.



Fragestellung

Welchen Einfluss hat die Auswahl von Cores und deren Dichte auf die Evaluation von Empfehlungsverfahren?

Experimente

- **Datensätze:** BibSonomy (publ, book), Delicious
- **Core-Typen:** tas-graph-core, post-graph-core, post-set-core
- **Core-Level:** 2,3,(4),5,(6,10,20)
- **Algorithmen:** most popular tags, most popular tags by user, most popular tags by resource, FolkRank
- **Metriken:** MAP, precision@ k , recall@ k , ($k \in \{1, \dots, 10\}$)

data	$ U $	$ R $	$ T $	$ Y $	$ \text{posts} $	$l_m(\mathcal{T})$	$l_m(\mathcal{P})$	$l_m(\mathcal{S})$	chosen l
<i>publ</i>	4 777	94 427	57 639	397 081	109 984	23	12	4	2, 3, 4, 5, 10
<i>book</i>	4 959	231 907	80 603	1 032 037	268 589	60	9	6	2, 3, 4, 5, 6
<i>deli</i>	75 071	2 999 487	397 028	17 280 065	7 268 305	200	75	58	2, 3, 5, 10, 20

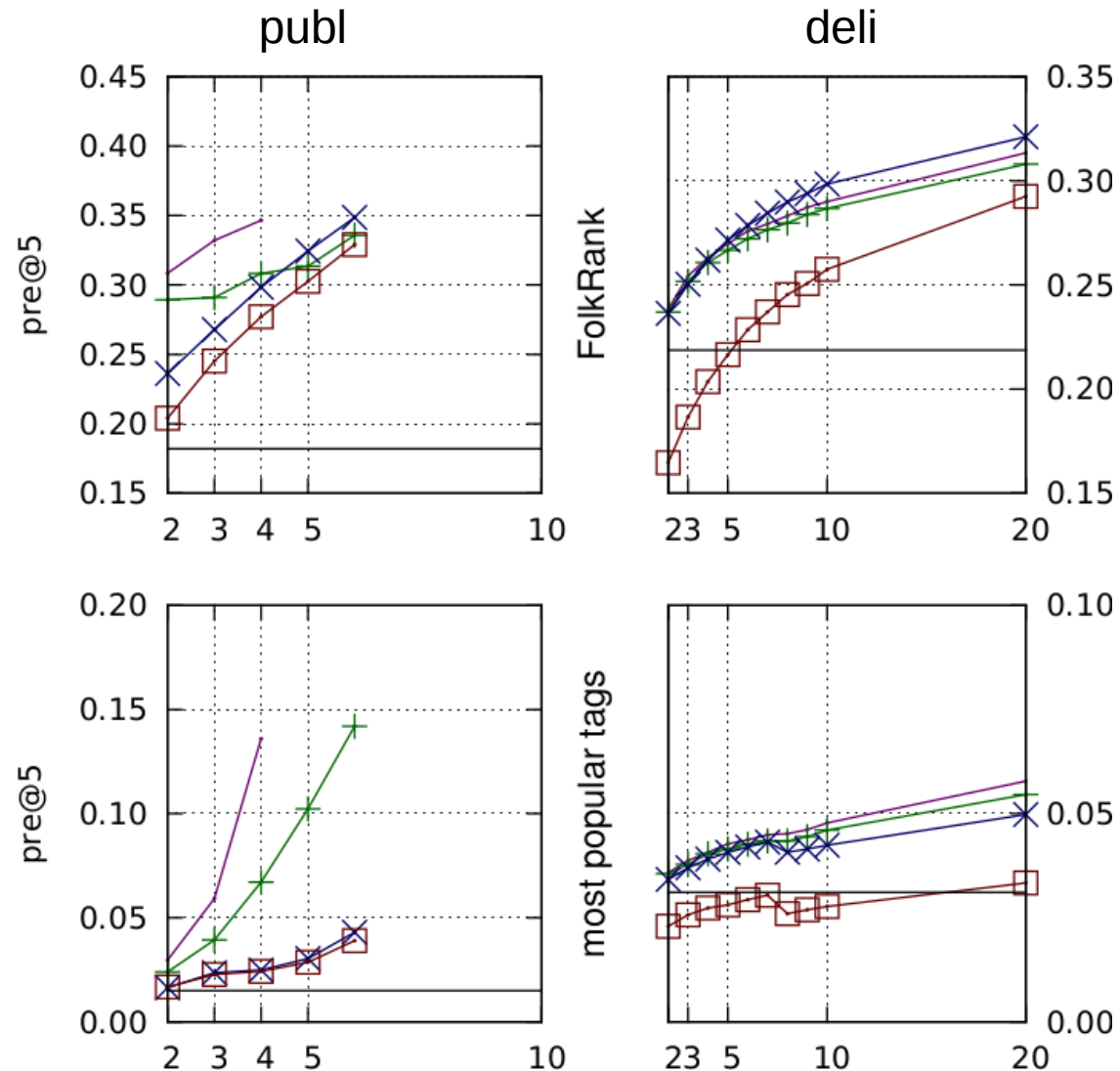
Ergebnisse

pre@5 für verschiedene
Core-Level

- (a) tas-graph-core —x—
- (b) post-graph-core —+—
- (c) post-set-core —•—
- (d) smaller posts —□—

typisch:

- Anstieg mit Level
- (d) am schlechtesten
- (c) > (b) > (a)



Ergebnisse

mittleres
paarweises
Pearson r
sowie Anzahl
diskordanter
Paare d

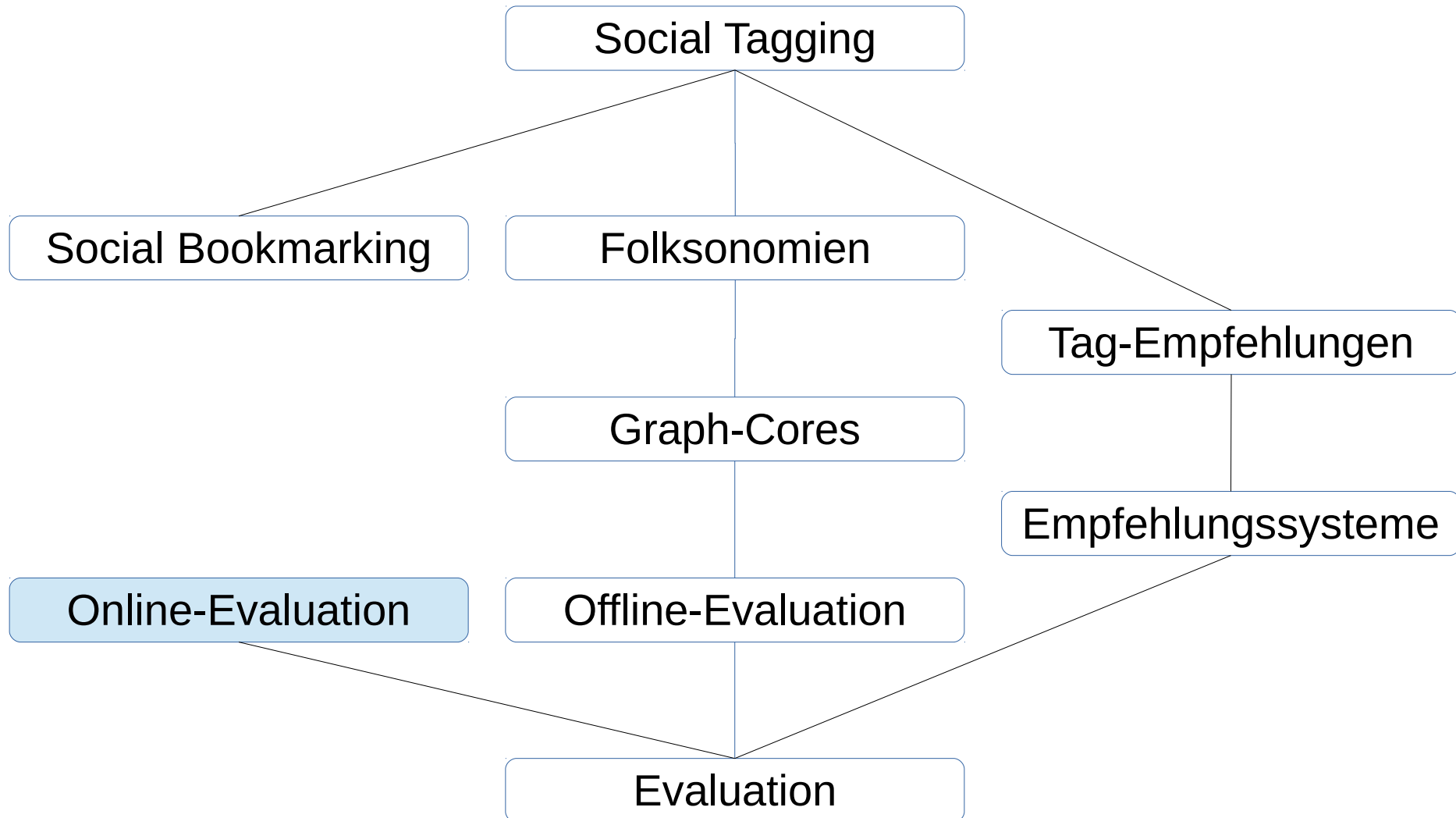
- deli am stabilsten
- abhängig von Metrik

dataset	metric	avg. r	σ	avg. d	σ
<i>publ</i>	MAP	0.903	0.083	1.505	1.068
<i>publ</i>	pre@5	0.896	0.093	1.560	0.980
<i>publ</i>	rec@5	0.907	0.090	1.560	1.024
<i>book</i>	MAP	0.908	0.092	1.429	1.087
<i>book</i>	pre@5	0.878	0.117	1.462	1.148
<i>book</i>	rec@5	0.912	0.090	1.330	1.076
<i>deli</i>	MAP	0.990	0.011	0.525	0.501
<i>deli</i>	pre@5	0.987	0.013	0.458	0.500
<i>deli</i>	rec@5	0.989	0.011	0.533	0.501

Lessons Learned

- Ergebnisse stark abhängig von Core-Konfiguration
 - instabile Ergebnisse bei Fokus auf spezifischen Core
 - keine Garantie, dass bestes Verfahren in einer Konfiguration auch bestes in anderem Verfahren (sogar auf gleichen Daten)
 - aber: Ergebnisse auf Cores mit hohem Level auch korreliert zu Ergebnissen auf Rohdaten
-
- ➔ Evaluation stets auf Rohdaten oder auf unterschiedlichen Core-Typen und Leveln
 - ➔ Für Überblick, Verfahren auf kleineren Teilmengen der Rohdaten vergleichen

Agenda



Offline vs. Online

Offline-Evaluation hat Nachteile:

- Ursprung der Tags nicht immer klar (z.B. wenn importiert)
- (fehlender) Einfluß der Empfehlungen
- Beachten von Timeouts, etc. nicht notwendig

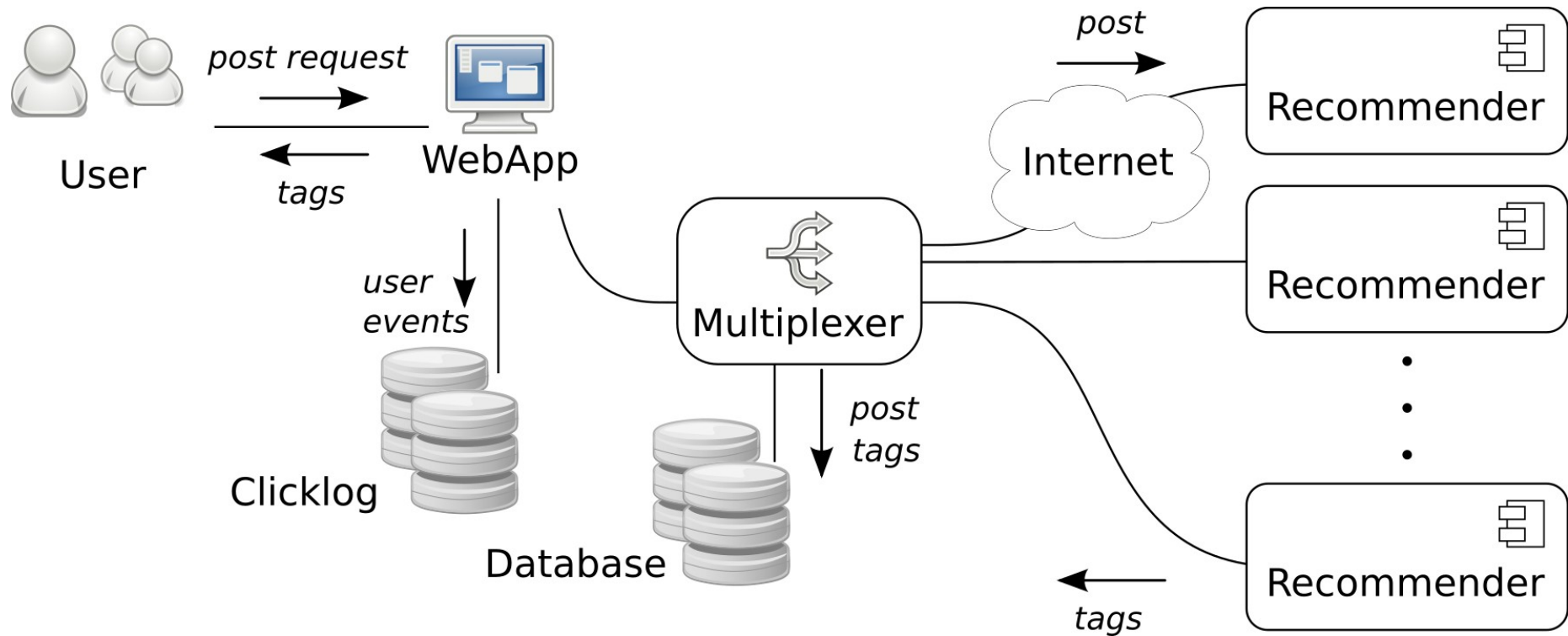
→ Tag-Empfehlungsframework

Anforderungen:

- einfache Konfiguration und Erweiterung
- unabhängig von BibSonomy
- Verteilung der Anfragen auf mehrere Rechner
- Timeouts forcieren, Ausweichempfehlungen bereithalten
- alle Vorgänge für Evaluation loggen



Reco-Framework





Nutzerschnittstelle

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title*

description,
comment

tags*

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recommender recognition rechte

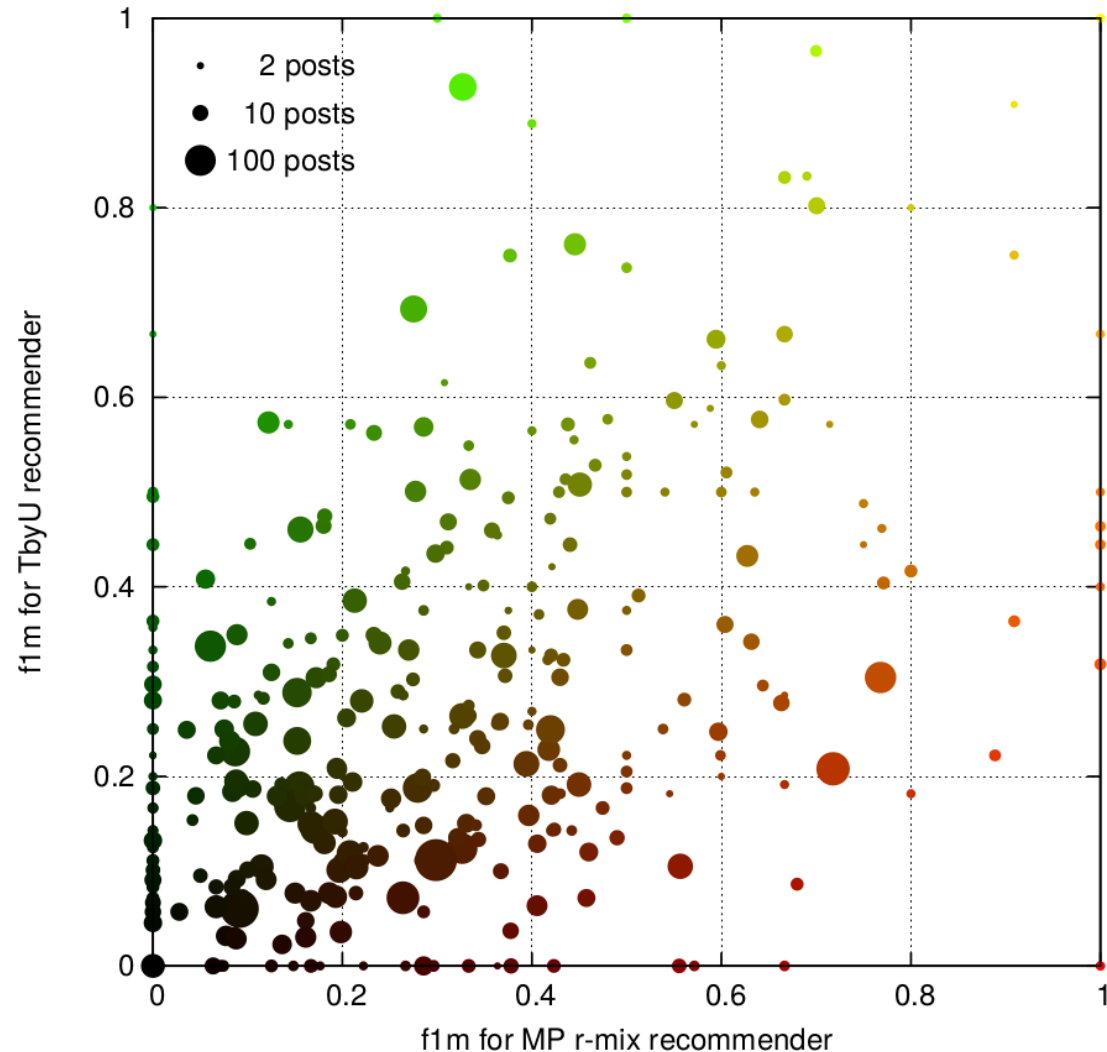
recommendation **conference 2007 2009 rs systems**

tags of copied item systems 2008 acm pc recommender conference

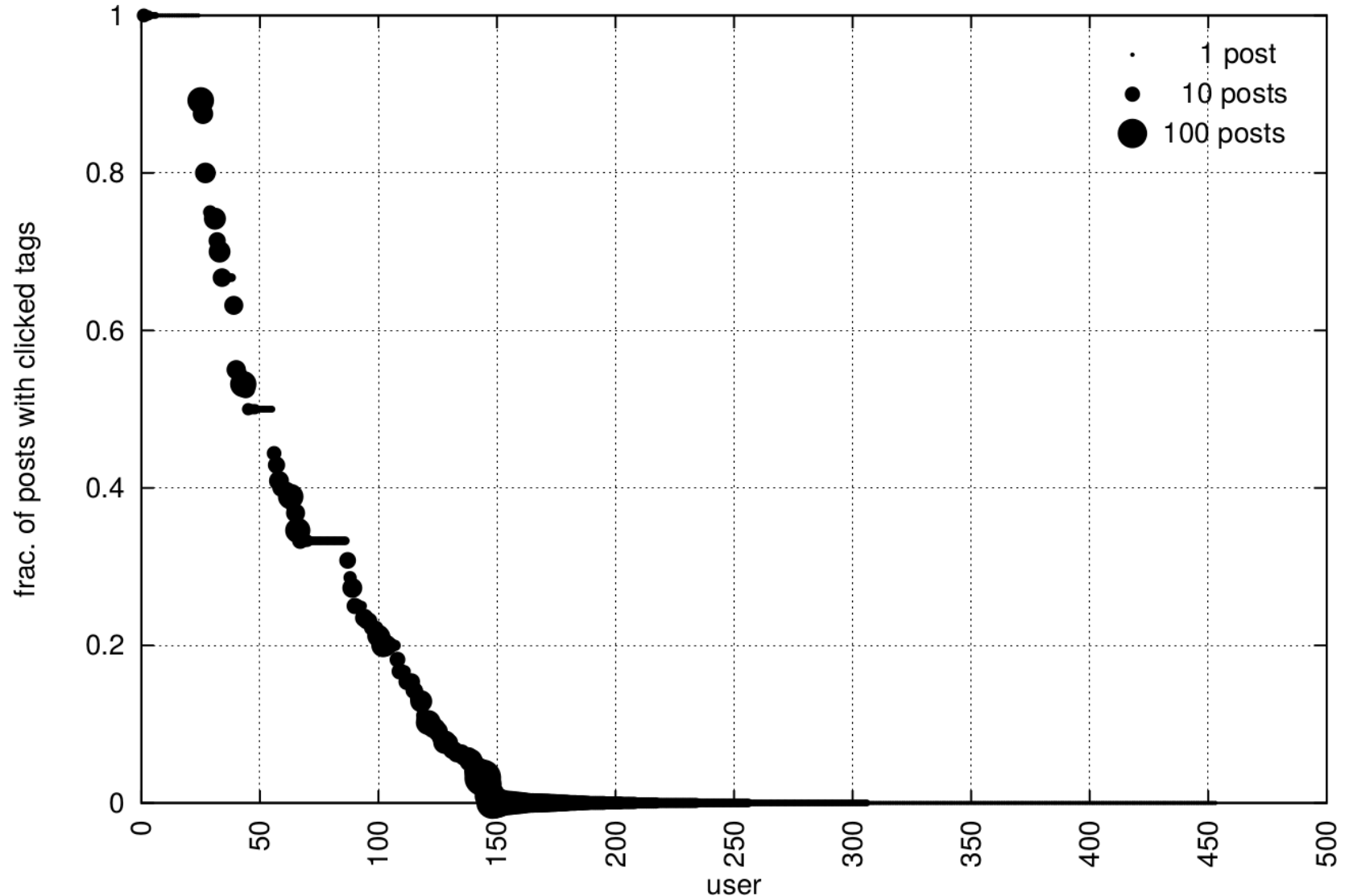


Online-Evaluation

- Online-Evaluation zweier Verfahren in BibSonomy
- 15.5.-26.6.2009
- 5840 Posting-Vorgänge
- F1-Maß als harmonisches Mittel von Precision und Recall
- MP r -mix: most popular ρ -mix
- TbyU: Tags aus Titel, umsortiert nach Nutzer-Präferenz



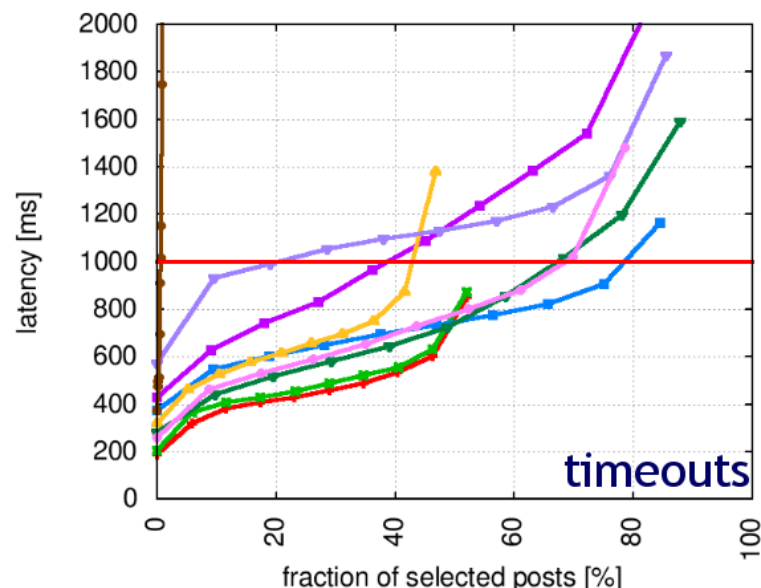
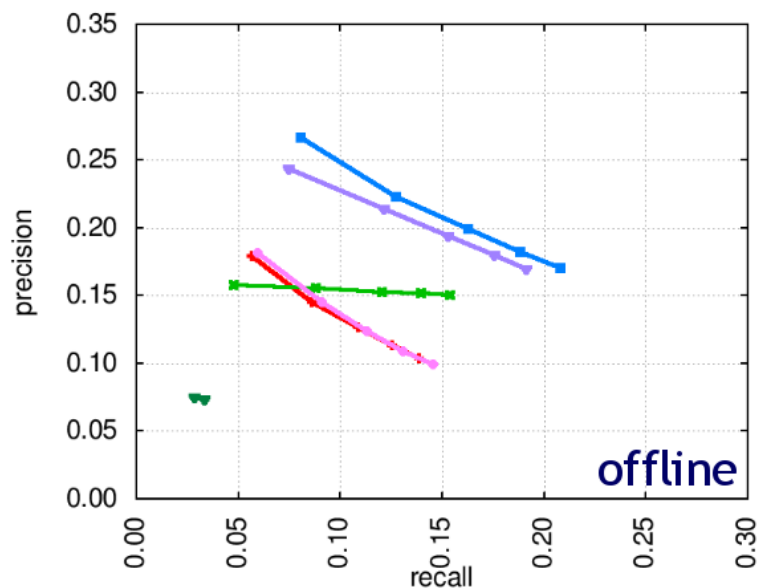
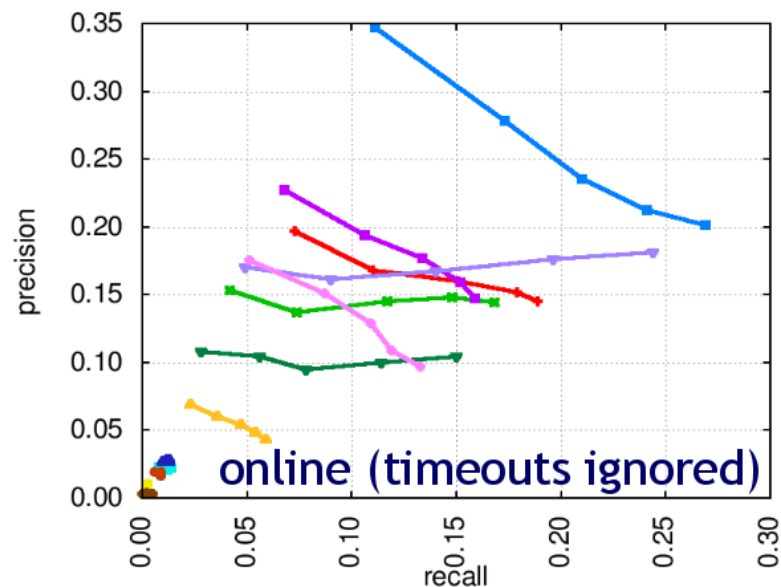
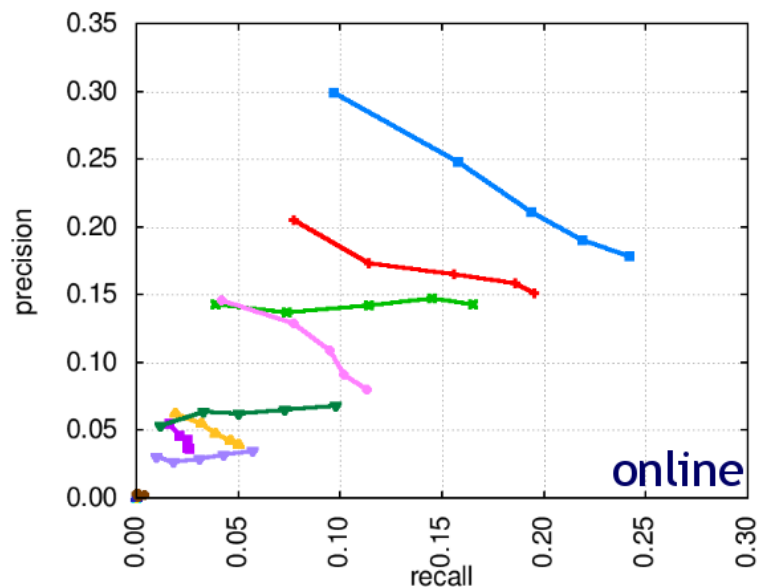
Online-Evaluation





The University
Of Sheffield.

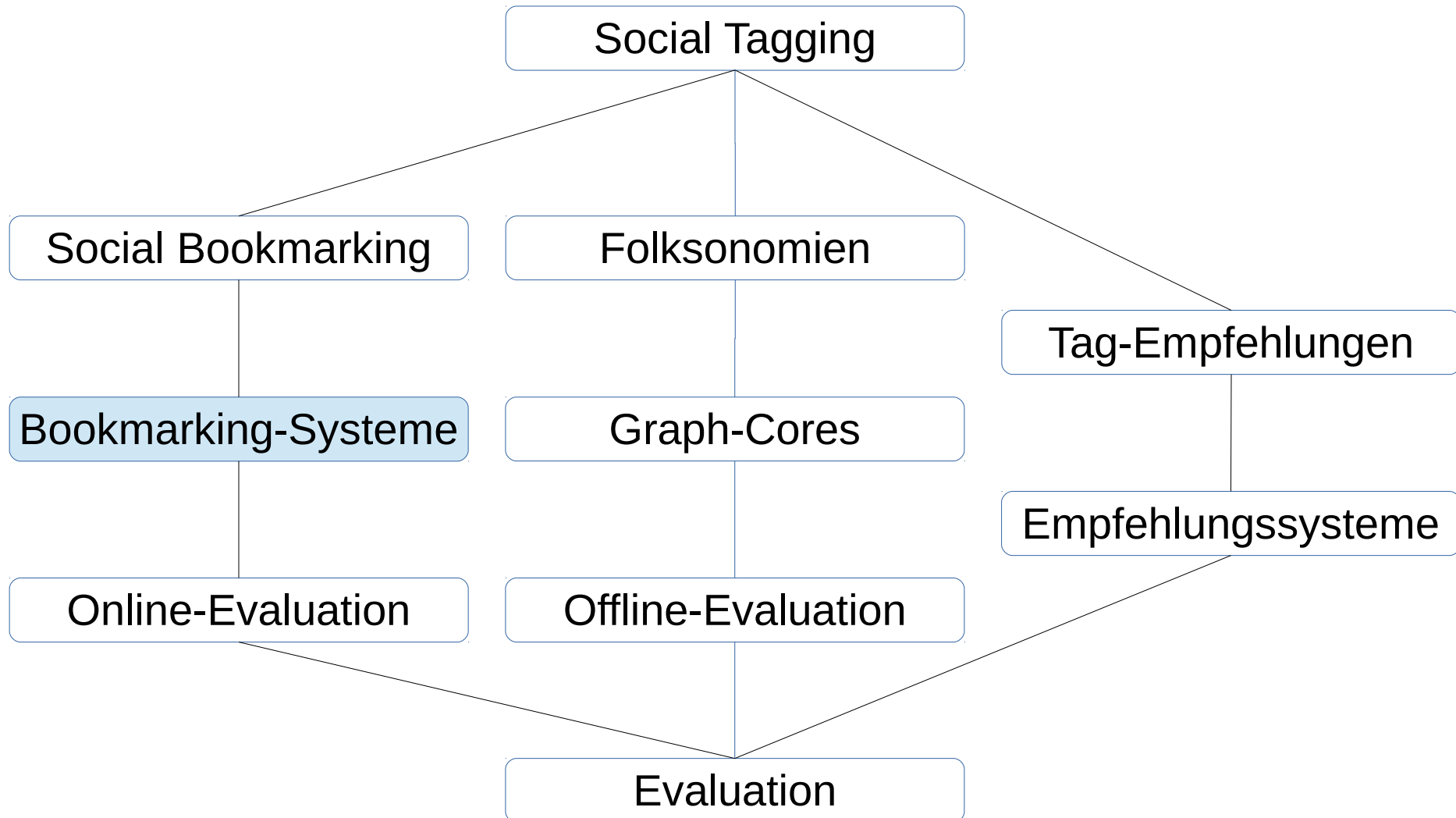
Discovery Challenge



Lessons Learned

- Nutzer-Präferenz für bestimmte Verfahren
- Nur selten direkte Auswahl durch Nutzer
- einfache Einbindung neuer Verfahren
- erfolgreiche Nutzung während DC09
- zeigte auch: Timeouts wichtig für Gesamtleistung

Agenda



bookmarks 1228



OpenCitations - Home

1



<http://opencitations.net/>

2 days ago by @jaeschke

citation data dataset open

★★★★★ (0)



Handbuch Open Science – Wikibooks, Sammlung freie...

1



https://de.wikibooks.org/wiki/Handbuch_Open_Science

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handbuch open science wikibooks

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https://en.wikipedia.org/wiki/Comparison_of_research_...

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<https://martin.kleppmann.com/2014/11/25/hermitage-tes...>

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A. Burkhardt, and B. Nerlich (Eds.). . *De Gruyter*, (2010)

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dh epistemology language metaphor text trope

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Why does deep and cheap learning work so well?

3



H. Lin, and M. Tegmark. (2016) *cite arxiv:1608.08225* Comment: 14 pages, 3 figs.

6 days ago by @jaeschke

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Web Archiving: Issues and Methods

1



J. Masanès. page 1--53. *Springer, Berlin/Heidelberg*, (2006)

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archive web

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Determining the Optimal Session Interval for Transactio...

2



S. Wakeling, and P. Clough. page 703--708. *Springer*, (2016)

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The Social Bookmark and Publication Management System BibSonomy

Dominik Benz, Andreas Hotho, Robert Jäschke, Beate Krause, Folke Mitzlaff, Christoph Schmitz, and Gerd Stumme.
The VLDB Journal 19(6):849--875 (December 2010)



Abstract

Social resource sharing systems are central elements of the Web 2.0 and use the same kind of lightweight knowledge representation, called folksonomy. Their large user communities and ever-growing networks of user-generated content have made them an attractive object of investigation for researchers from different disciplines like Social Network Ana... (more)

Links and resources

DOI: 10.1007/s00778-010-0208-4
URL: <http://www.kde.cs.uni-kassel.de/pub/pdf/benz2010social.pdf>

additional links:

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community

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www.bibsonomy.org

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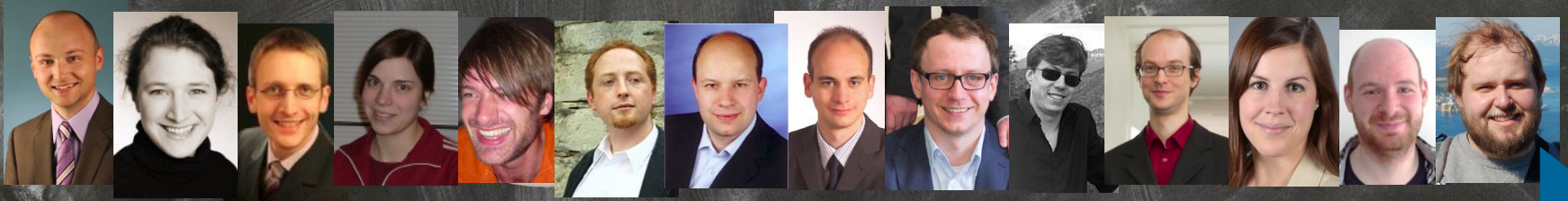
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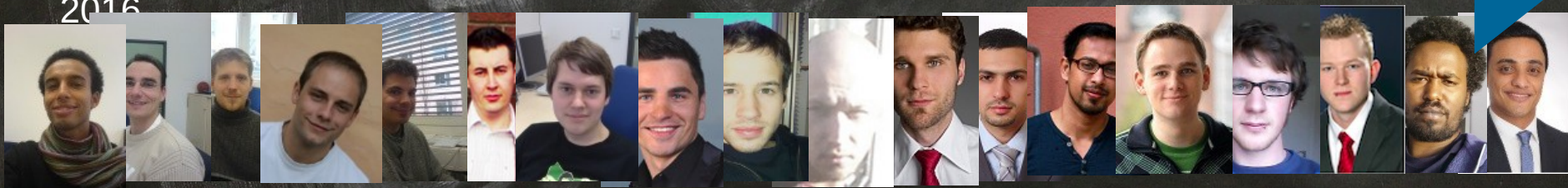
K. E. Wolff and S. Gabler. *Visualization of categorical data*, (to appear)

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tag(s)



tag

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author

concept

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in group

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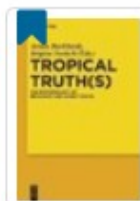


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clipboard

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private documents

upload document

Durchsuchen...

Keine Datei ausgewählt.

The uploaded documents are stored temporarily. After clicking save, they are added to the post. The documents will be available only to you and members of your groups.

added files

• Supplementary Materials.pdf

home / account / edit tags

edit your tags and concepts

rename/replace tags

On every post that contains all the tags from the first box these tags will be replaced by those from the second box.

replace these tag(s)

by these tags

☐ replace tags in concepts (replacing tags in concepts only works, when exactly one tag is being replaced by one other tag)

replace

reset

add subtags to concepts

supertag

subtag

insert

reset

delete subtags from concepts

supertag

Comments and Reviews

rating distribution



average user rating



5.0 out of 5.0 based on 1 review



anonymous 5 years ago



good summary of research and technical details around the bibsonomy tool

Users



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Curriculum Vitae

Grouppage of the group 15th Discovery Challenge



15th Discovery Challenge

Members



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@hatho



@jaeschke



@juergen....



@sdo



You shall not pass: detecting malicious users at registration time

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Authors: [Christian Kater](#) [Leibniz University Hannover](#)
[Robert Jäschke](#) [Leibniz University Hannover](#)

Published in:

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[OnSt '16](#) Proceedings of the 1st International Workshop on Online Safety, Trust and Fraud Prevention

Article No. 2

[ACM](#) New York, NY, USA ©2016

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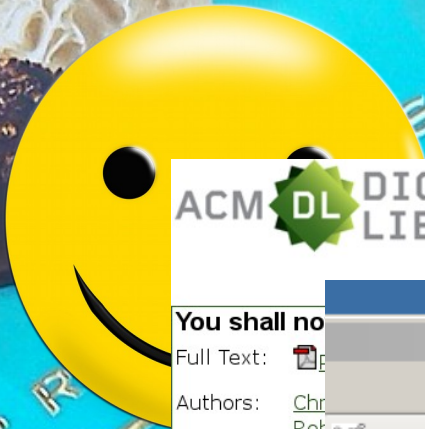
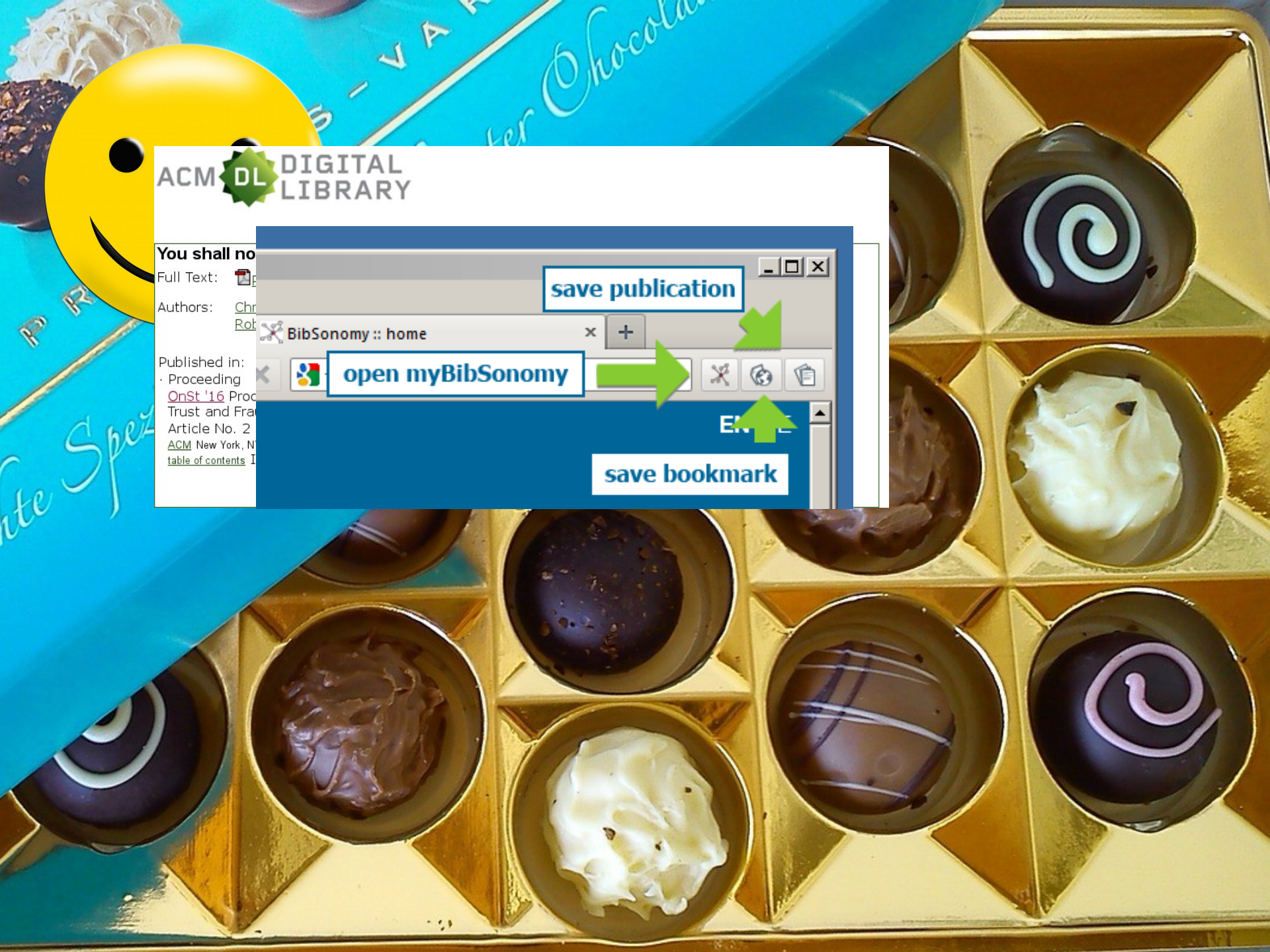


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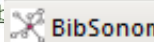
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You Shall Not Pass: Detecting Malicious Users at Registration Time

C. Kater, and R. Jäschke. *Proceedings of the 1st International Workshop on Online Safety, Trust and Fraud Prevention*, page 2:1--2:6. New York, NY, USA, ACM, (June 2016)

Abstract

Spam is a widespread problem for many online services. The use case in this paper is the social bookmarking system BibSonomy, which received over 150 times more registrations from spam users than from normal users over the last ten years. A common approach to fight spam is to use machine learning to classify the users into good or malicious users. ... [\(more\)](#)

Links and resources

DOI: 10.1145/2915368.2915370

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Tags

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You Shall Not Pass: Detecting Malicious Users at Registration Time

Christian Kater
Ludwig-Maximilians-Universität München
ckater@gmail.comRobert Jäschke
Ludwig-Maximilians-Universität München
jaeschke@lmu.de

ABSTRACT

Spam is a widespread problem for many online services. The use case in this paper is the social bookmarking system BibSonomy, which received over 150 times more registrations from spam users than from normal users over the last ten years. A common approach to fight spam is to use machine learning to classify the users into good or malicious users. ... [\(more\)](#)

CCN Examples

Abstracts of papers in the BibSonomy system

Keywords

Social bookmarking

1. INTRODUCTION

In BibSonomy, we have collected a large number of registrations from spam users. This paper describes our approach to detect and filter out these users. We use machine learning to classify the users into good or malicious users. ... [\(more\)](#)

kater2016detecting.p

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You shall not pass

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Robert Jäschke Home Publications Events Projects Teaching Code Data Links

Abstract

Spam is a widespread pr
the social bookmarking s
registrations from spam
common approach to figt
good or malicious users.

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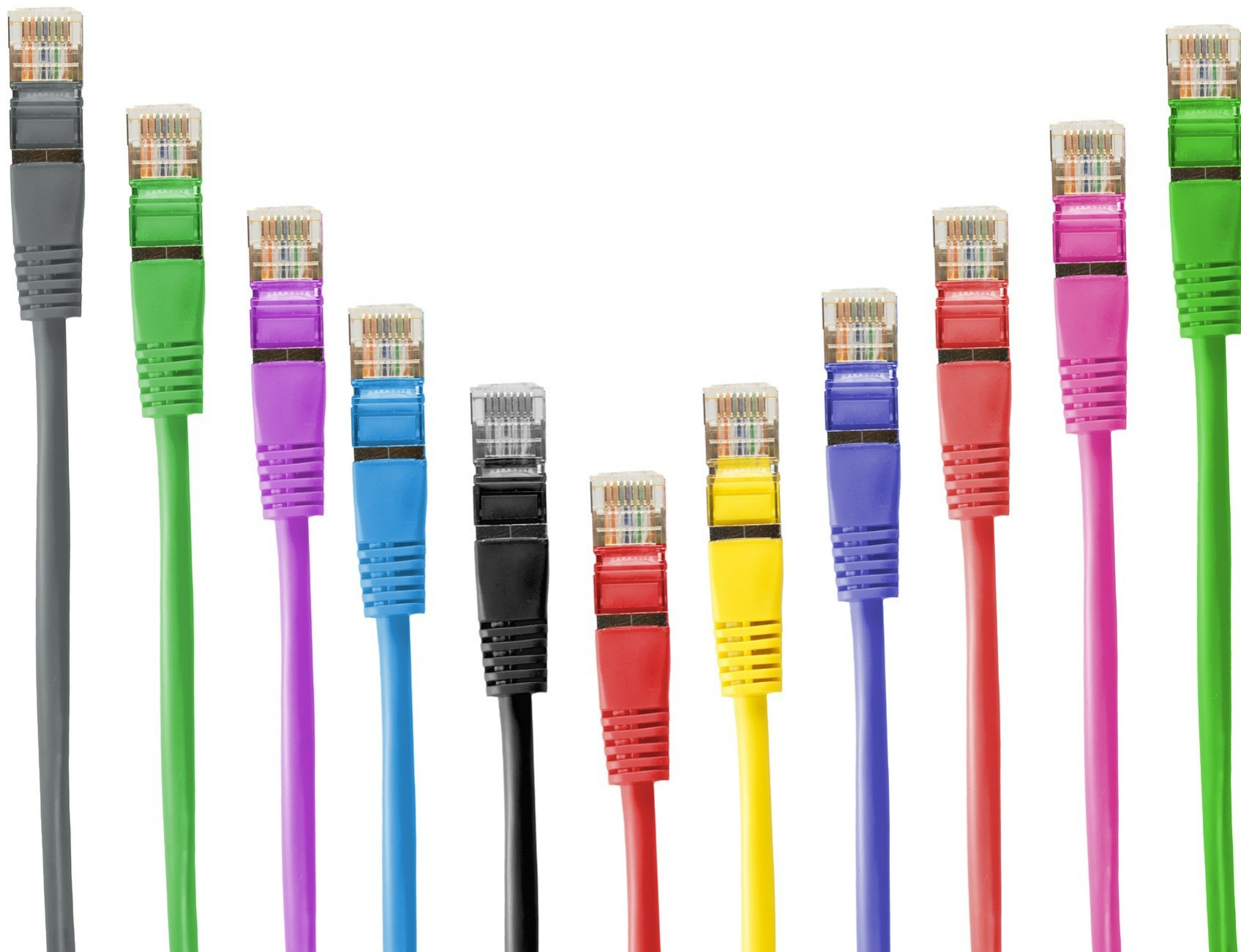
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2016

- Bergmann, J., Hadgu, A.T., Jäschke, R.: **Tweeting in times of exposure: A mixed-methods approach for exploring patterns of communication related to business scandals on Twitter**. Proceedings of the Workshop on Natural Language Processing and Computational Social Science. , Hannover, Germany (2016). [[PDF](#) | [BibTeX](#) | [BibSonomy](#)]
- Hadgu, A.T., Lotze, N., Jäschke, R.: **Telling English Tweets Apart: the Case of US, GB, AU**. Proceedings of the Workshop on Natural Language Processing and Computational Social Science. , Hannover, Germany (2016). [[PDF](#) | [BibTeX](#) | [BibSonomy](#)]
- Kater, C., Jäschke, R.: **You Shall Not Pass: Detecting Malicious Users at Registration Time**. Proceedings of the 1st International Workshop on Online Safety, Trust and Fraud Prevention. pp. 2:1–2:6. ACM, Hannover, Germany (2016). [[PDF](#) | [DOI:10.1145/2915368.2915370](#) | [URL](#) | [BibTeX](#) | [BibSonomy](#)]



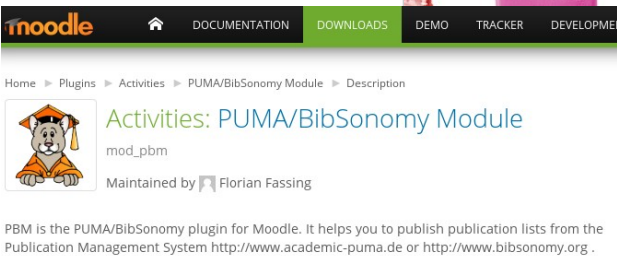
- thinking about hidden features
- removing unused features is sometimes necessary
- there is never a shortage of ideas for good features
- explaining (new) features is important
- having an HCI expert is important



Integration with other Websites and Services

BibSonomy integrates well with other websites, content management systems, and reference managers. Furthermore, you can connect BibSonomy to your own software using one of our API (application programming interface) clients. The following list describes ways to integrate BibSonomy with various systems and technologies - ranging from code snippets to complete and powerful, easy-to-install plugins or API clients.

- Integration with other Websites and Services
 - Browser
 - Chrome / Chromium
 - Firefox
 - Add on
 - Search
 - Zotero
 - Safari
 - Programs
 - Citavi
 - Emacs
 - JabRef
 - BibSonomy Plugin
 - Extract JabRef layouts from Jar files
 - KBibTeX
 - Sublime Text
 - TeXlipse
 - Websites
 - Confluence
 - GoogleDocs
 - GoogleScholar
 - Moodle
 - Your own website
 - Bookmark Links
 - Tag Clouds
 - Post Lists
 - JSON feed
 - TYPO3
 - Wordpress
 - XWiki
 - Zope
 - Libraries
 - Digital Libraries
 - Discovery Service
 - OpenURL resolver
 - Applications
 - Bookmark Exporter
 - Link checker
 - RSS
 - REST API
 - Java
 - PHP
 - Python
 - Others
 - Android
 - OAuth
 - Search Engine


All sites supported by our scrapers

The following list contains all supported catalogs whose publications can be extracted for you with the "postPublication"-Button or the Browser extensions. The links make a good starting point for importing publications of interests into BibSonomy.

[Bibliothek Kassel](#) | [IEEEExplore Journals](#) | [IEEEExplore Books](#) | [IEEEExplore Standards](#) | [SpringerLink](#) | [ScienceDirect](#) | [PubMed](#) | [PubMedCentral](#) | [SLAC National Accelerator Laboratory](#) | [ACM Digital Library](#) | [AIFB](#) | [University Library \(UB\) Karlsruhe](#) | [arXiv](#) | [Ingentaconnect](#) | [Librarything](#) | [The SAO/NASA Astrophysics Data System](#) | [AIP Scitation](#) | [JOURNAL OF THE AMERICAN SOCIETY OF HEMATOLOGY](#) | [MathSciNet](#) | [InterScience](#) | [IOP](#) | [PROLA](#) | [BibSonomy](#) | [IEEE Computer Society](#) | [Amazon](#) | [PLoS](#) | [Nature](#) | [Blackwell Synergy](#) | [University of Trier Digital Bibliography & Library Project](#) | [BioMed Central](#) | [Worldcat](#) | [Springer](#) | <http://www.acs.org/> | [AnthroSource](#) | [BMJ](#) | [Ed/ITLib](#) | [Informaworld](#) | [Cambridge Journals](#) | [Liebert Online](#) | [National Bureau of Economic Research](#) | [USENIX](#) | [International Union of Crystallography](#) | [Optical Society of America](#) | [Psy CONTENT](#) | [Royal Society Publishing](#) | [PNAS](#) | [Science Magazine](#) | [Jstor](#) | [Education Resources Information Center](#) | [IWA Publishing](#) | [Journal of Machine Learning Research](#) | [Association for Computational Linguistics](#) | [J-Stage](#) | [Annual Reviews](#) | [Project MUSE](#) | [SSRN](#) | [SCOPUS](#) | [Meta Press](#) | [CiteSeerX](#) | [Open Repository](#) | [Pion](#) | [CiteUlike](#) | [American Meteorological Society](#) | [LIIN](#) | [Wormbase](#) | [Google Scholar](#) | [Google Patente](#) | [SciELO Scientific Electronic Library Online](#) | [D-Lib](#) | [Cell](#) | [Cases Journal](#) | [Elsevier: Medical publishers, online journals](#) | [Astronomy and Astrophysics](#) | [Journalogy \(Microsoft Academic Search\)](#) | [INSPIRE](#) | [Taylor & Francis Online](#) | [Google Books](#) | [Journal of Applied Physiology](#) | [American Thoracic Society Journals](#) | [The New England Journal of Medicine](#) | [Sage Journal](#) | [The Journal of Clinical Investigation](#) | [Stanford InfoLab Publication Server](#) | [Royal Society of Chemistry](#) | [The FASEB Journal](#) | [The Journal of Neuroscience](#) | [Development](#) | [The Open University](#) | [Association for the Advancement of Artificial Intelligence](#) | [American Psychological Association](#) | [BMJ Open](#) | [Pharmacognosy Research](#) | [EconStor](#) | [JCB](#) | [American Psychological Society](#) | [Mendeley](#) | [Hindawi Publishing Corporation](#) | [American Society for Microbiology](#) | [Firtst Monday](#) | [IGI Global](#) | [De Gruyter](#) | [Morgan & Claypool Publisher](#) | [MDPI - Open Access Publishing](#) | [Oxford Journals](#) | [THE LANCET](#) | [World Scientific](#) | [Now The essence of Knowledge](#) | [Genome Biology](#) | [American Journal of PUBLIC HEALTH](#) | [Cold Sping Harbor Perspectives in Biology](#) | [RWTH Aachen University](#) | [U.S. Departement of energy - Office of Scientific and technical information](#) | [scientific](#) | [Copac National, Academic and Specialist Library Catalogue](#) | [cinii Articles](#) | [Aha Journals](#) | [Karger medical and scientific publishers](#) | [Cold Sping Harbor Perspectives in Biology](#) | [SPIE Digital Library](#) | [Bio One Research Evolved](#) | [The University of Chicago Press Journals](#) | [Refdoc](#) | [Pediatrics official journal of the american academy of pediatrics](#) | [Journal of Neurological Surgery Part A](#) | [The Journal of American Medical Association](#) | [Astronomy and Astrophysics](#) | [Library of Congress](#) | [Elsevier](#) | [Compare billion project of the Russian Federation Ministry of Culture and Public Initiative](#) | [ContentNegotiationDOIScraper](#) | [EprintsScraper](#) | [UnAPIScraper](#) | [Highwire Scraper Collection](#) | [CoinsScraper](#) | [DublinCoreScraper](#)

The details of each scraper will be explained in the following. For more information, have a look at the [help pages](#).



format

posts

By selecting one of the formats you

Favorite layouts



.bib

BibTeX

BibTeX is a popular bibliography



.html

CSL

The Citation Style Language compatible with most



.txt

EndNote *

This is an output in E



.xml

MSOffice XML *

A format to import into

- please select -

- please select -

BibTeX

CSL

EndNote

MSOffice XML

APA: HTML according American Psychological Association (APA) guidelines

APA: RTF according American Psychological Association (APA) guidelines

BibO RDF

BibTeXML

Boxed HTML

BuRST

CV BibSonomy

Chicago Manual of Style

DBLP XML

DIN 1505

DIN 1505 MMS

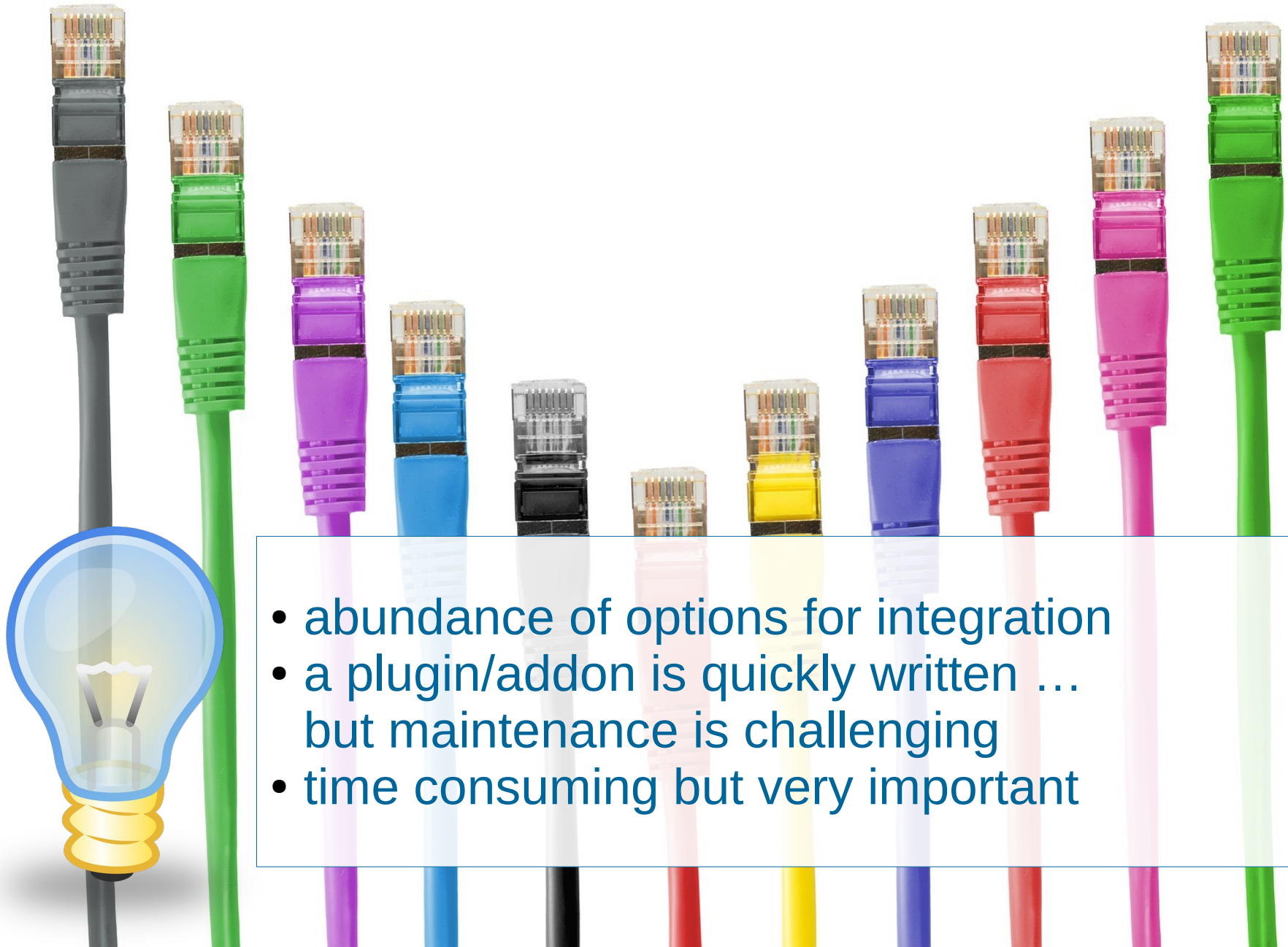
DIN 1505 MMS, ENDNOTE, NOTE, YEAR

DIN 1505 MMS, ENDNOTE, YEAR

DIN 1505 MMS, YEAR

DIN 1505, YEAR

micro-son Bibliography.



- abundance of options for integration
- a plugin/addon is quickly written ... but maintenance is challenging
- time consuming but very important





MyBatis



spring

by Pivotal™



Apache
Tomcat



elastic





- invest time in proper architecture early on
- migration is challenging
- many invisible improvements
- do not fear change

BibSonomy::home

search [home](#) :: [tags](#) :: [popular](#)username: password: [help](#)
[login](#) :: [register](#)

BibSonomy is a system for sharing bookmarks and lists of literature. When discovering a bookmark or a publication on the web, you can store it on our server. You can add tags to your entry to retrieve it more easily. This is very similar to the bookmarks/favorites that you store within your browser. The advantage of BibSonomy is that you can access your data from wherever you are. Furthermore, you can discover more bookmarks and publications from your friends and other people.

This page shows you the latest updates of BibSonomy. Why don't you just try it yourself? After a free [registration](#), you can organise your own bookmarks and publications, and discover related entries.

busy tags

[dblp](#)
[lang:de](#)
[programming](#)
[DRM](#)
[boomerang](#)
[reference](#)
[java](#)
[wood](#)
[shop](#)
[ir](#)

bookmarks

[previous](#) | [next](#)

NICHTLUSTIG.DE

to humor cartoon lang:de as public by [schmitz](#) and 1 other person on 2005-12-18 23:13:12.0

BibTeX

[previous](#) | [next](#)**Comparison of visualizations in formal concept analysis and correspondence analysis**

K. E. Wolff and S. Gabler. *Visualization of categorical data*, (to appear)



username: password:

bookmarks (410) [RSS](#) [XML](#)

<< < 1 | 2 | 3 > >>

Generic SOAP Client

This generic SOAP client allows you to access web services using a web browser. It performs dynamic bindings and executes methods at remote web service...

to [test wsdl online soap client](#) by [jaeschke](#) on Jul 1, 2008, 12:37 PM

Popsongs und ihre Hintergründe - Songarchiv

to [rock history background geschichte song music pop hintergrund](#) by [jaeschke](#) and [1 other person](#) on Jun 28, 2008, 12:43 AM

Popsongs und ihre Hintergründe - Songarchiv

to [song hintergrund pop geschichte history music background rock](#) by [jaeschke](#) and [1 other person](#) on Jun 28, 2008, 12:37 AM

Wordle - Beautiful Word Clouds

Wordle is a toy for generating "word clouds" from text that you provide. The clouds give greater prominence to words that appear more frequently in the sou...

to [cloud word wordle](#) by [jaeschke](#) and [10 other people](#) on Jun 23, 2008, 9:04 PM

ONJava.com -- Advanced Configuration of the Spring MVC Framework

In this article I will present some configuration tips for the Spring MVC framework that could help you manage multiple instances of your Spring-based web ...

to [web configuration programming mvc spring](#) by [jaeschke](#) on Jun 19, 2008, 3:36 PM

DadaDada

publications (208) [RSS](#) [BibTeX](#) [RDF](#) [more](#)

<< < 1 | 2 | 3 > >>

Detecting Communities via Simultaneous Clustering of Graphs and Folksonomies

Akshay [Java](#) and Anupam [Joshi](#) and Tim [Finin](#) *WebKDD 2008 Workshop on Web Mining and Web Usage Analysis, August 2008. To Appear* .
to [detection clustering community](#) by [jaeschke](#) and [1 other person](#) on Jul 12, 2008, 1:03 PM
[BibTeX](#)

TRIAS - An Algorithm for Mining Iceberg Tri-Lattices

Robert [Jäschke](#) and Andreas [Hotho](#) and Christoph [Schmitz](#) and Bernhard [Ganter](#) and Gerd [Stumme](#) *ICDM '06: Proceedings of the Sixth International Conference on Data Mining, page907--911. Washington, DC, USA, IEEE Computer Society, (2006)*
to [trias myown 2006](#) by [jaeschke](#) and [10 other people](#) on Jun 23, 2008, 12:23 PM
[URL](#) | [BibTeX](#)

Logsonomy - Social Information Retrieval with Logdata

Beate [Krause](#) and Robert [Jäschke](#) and Andreas [Hotho](#) and Gerd [Stumme](#) *HT '08: Proceedings of the nineteenth ACM conference on Hypertext and hypermedia, page157--166. New York, NY, USA, ACM, (2008)*
to [engine information l3s logsonomy for:nepomuk wp5 social retrieval analysis network search](#) by [jaeschke](#) and [2 other people](#) on Jun 20, 2008, 2:42 PM
[URL](#) | [BibTeX](#)

Logsonomy — A Search Engine Folksonomy

Robert [Jäschke](#) and Beate [Krause](#) and Andreas [Hotho](#) and Gerd

filter:

- relations

conference ← [ecai](#) [gvd](#) [iccs](#) [icdm](#) [icfca](#)
geo ← [gps](#) [map](#) [utm](#)
howto ← [manual](#) [reference](#) [tutorial](#)
location ← [anhalt](#) [berlin](#) [bitterfeld](#) [celle](#) [dresden](#)
[europe](#) [frankfurt](#) [hannover](#) [kassel](#) [london](#)
[magdeburg](#) [ort](#) [sachsen](#) [sachsen_anhalt](#)
[tübingen](#) [wittenberg](#)
ort ← [location](#)
programming ← [ada](#) [c](#) [fortran](#) [java](#) [lisp](#) [perl](#) [ruby](#)
protocol ← [ftp](#) [http](#) [smtp](#)
researcher ← [devadze](#) [shannon](#) [turing](#)
science ← [chemistry](#) [math](#)
software ← [apache](#) [beagle](#) [cocoa](#) [debian](#)
[eclipse](#) [firefox](#) [haystack](#) [nextstep](#)
[photoshop](#) [protege](#) [thunderbird](#) [weka](#)
[wine](#) [word](#) [x11](#) [zope](#)
sport ← [basketball](#) [football](#) [volleyball](#)

- tags

([alpha](#) | [freq](#)) ([cloud](#) | [list](#)) ([minfreq](#) [1](#) | [2](#) | [5](#))
[12](#) [2005](#) **[2006](#)** [2007](#) [2008](#) [129a](#) [3-mode](#) [3d](#)
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[award](#) [awk](#) [axis](#) [axis2](#) [background](#) [bahn](#) [balloon](#)
[bank](#) [basteln](#) [batch](#) [bayes](#) [beagle](#) [berlin](#)
[bibliographic](#) [bibsonomy](#) [bibtex](#) [bienen](#) **[binary](#)**
[bing](#) [bin](#) [bing](#) [binch](#) [blo](#) [black&white](#) [blind](#)

BibSonomy :: user :: jaeschke ::

A blue social bookmark and publication sharing system.

[Home](#)
[▼ myBibSonomy](#)
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[post publication](#)
[tags](#)
[authors](#)
[relations](#)
[▼ groups](#)
[popular](#)
bookmarks (697)[RSS](#) [XML](#)

<< < 1 | 2 | 3 > >>

[edit](#)**LaTeX Beamer Theme Previews « Jinto Reedwine's Blog**

I have been using LaTeX beamer for a little over a year now to do my "PowerPoint" like presentations for math and computer science classes. I really like b...

to [beamer latex preview theme](#) by [jaeschke](#) on Jun 28, 2010, 8:33 PM

[edit](#) | [delete](#) | [spam](#)**PUMA - erste stabile Version jetzt online verfügbar**

Das im August gestartete DFG-Projekt PUMA - Akademisches Publikationsmanagement ist mittlerweile in einer ersten Version online verfügbar.

to [bibliothek blog kassel projekt puma](#) by [jaeschke](#) on Jun 28, 2010, 2:49 PM

[edit](#) | [delete](#) | [spam](#)**Feature of the week: New help pages**

to [bibsonomy bibsonomynews blog fotw help](#) by [jaeschke](#) on Jun 28, 2010, 2:44 PM

[edit](#) | [delete](#) | [spam](#)**Coranac » Off on a tangent : a look at****publications** (392)[RSS](#) [BibTeX](#) [RDF](#) [more](#)

<< < 1 | 2 | 3 > >>

[edit](#) | [pick](#) | [unpick](#)**Query Logs as Folksonomies**

Dominik Benz and Andreas Hotho and Robert Jäschke and Beate Krause and Gerd Stumme *Datenbank-Spektrum*10(1):15–24jun 2010.

to [2010 folksonomy log logsonomy myown query](#) by [jaeschke](#) and 1 other user on Jun 14, 2010, 10:11 AM

[pick](#) | [edit](#) | [delete](#) | [gold-standard](#) | [URL](#) | [BibTeX](#) | [openURL](#) | [spam](#)**Learning optimal ranking with tensor factorization for tag recommendation**

Steffen Rendle and Leandro Balby Marinho and Alexandros Nanopoulos and Lars Schmidt-Thieme *KDD '09: Proceedings of the 15th ACM SIGKDD international conference on Knowledge discovery and data mining, page 727–736. New York, NY, USA, ACM, (2009)*

to [folksonomy ranking recommender tag tagging tensor](#) by [jaeschke](#) and 5 other users on Jun 14, 2010, 10:09 AM

[pick](#) | [edit](#) | [delete](#) | [gold-standard](#) | [URL](#) | [DOI](#) | [BibTeX](#) | [openURL](#) | [spam](#)**A fast string searching algorithm**

Robert S. Boyer and J. Strother Moore *Communications of the ACM*20(10):762–772oct 1977.

to [algorithm boyer match moore search string](#) by [jaeschke](#) and 2

filter: **+ relations**

(show all | hide all)

+ similar users more...**- tags**

(alpha | freq) (cloud | list) (minfreq 1 | 2 | 5)

2006 2008 algorithm analysis
annotation bibsonomy
bibsonomynews bibtex binary blog
book bookmarking buch bunker
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community concept dagsocial data
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engine fca **folksonomy** for:kde
formal fotw fun geo google gps
graph history howto
iccs_example information java
kassel knowledge l3s latex learning
lehre linux location manual map
math memory mining music myown
mysql network ontology ort
pagerank photo privacy



http://www.bibsonomy.org/user/jaeschke



BibSonomy

THE BLUE SOCIAL BOOKMARK AND PUBLICATION SHARING SYSTEM.

user :: jaeschke ::

tag(s)

search

(Robert Jäschke)



EN-DE

home myBibSonomy add post groups popular

logged in as jaeschke logout

BOOKMARKS (1141)



Twitter Calendar

<http://statuscalendar.cs.washington.edu/>
17 hours and 29 minutes ago by jaeschke
information named entity ner calendar twitter e...

★★★★★ (0)

Feature of the week: CSL via REST-API

<http://blog.bibsonomy.org/2013/01/feature-of-week-csl-via-rest-a...>
3 days and an hour ago by jaeschke
bibsonomynews fow csl bibsonomy rest

★★★★★ (0)

prisma.de: It Might Get Loud

http://www.prisma.de/film/2008_it_might_get_loud/fernsehen.html
4 days ago by jaeschke as private
program tv music

★★★★★ (0)

ORCID: Robert Jäschke

<http://orcid.org/0000-0003-3271-9653>
7 days ago by jaeschke
orcid science myown research publication

★★★★★ (0)

BibSonomy

<http://www.kbs.uni-hannover.de/~jaeschke/bibsonomy/>
7 days ago by jaeschke
tagging collaborative social bookmarking bibso...

★★★★★ (0)

Web Observatory Wiki

http://wow.west.webobservatory.org/index.php/Main_Page
7 days ago by jaeschke
wiki dataset science semantic observatory web

★★★★★ (1)

Mellanox Technologies: Hadoop

★★★★★ (0)

PUBLICATIONS (726)



The Wiki way: quick collaboration on the Web

Bo Leuf, and Ward Cunningham. Addison-Wesley, London, (Marc...
7 days ago by jaeschke
collaboration wiki management web knowledge

★★★★★ (0)

Best Practices for Scientific Computing

Greg Wilson, D. A. Aruliah, C. Titus Brown, Neil P. Chue Hong, Ma...
9 days ago by jaeschke
programming science computing research

★★★★★ (0)

Understanding the internet: a socio-cultural ..

Bridgette Wessels. Palgrave Macmillan, Houndmills, Basingstok...
9 days ago by jaeschke
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★★★★★ (0)

The no-nonsense guide to equality

Daniel Dorling, Kate Pickett, and Richard G. Wilkinson. New Interna...
9 days ago by jaeschke
stair income justice guide equality

★★★★★ (0)

So You Think You Know About Britain?

Daniel Dorling. Constable & Robinson, London, (2011)
9 days ago by jaeschke
stair britain geography

★★★★★ (0)

The Visualisation of Spatial Social Structure

Danny Dorling. Wiley Series in Computational and Quantitative S...
9 days ago by jaeschke
information stair spatial system social gis geo...

★★★★★ (0)

Toward Open-World Software: Issue and Cha..

★★★★★ (0)



concepts

(show all | hide all)

- author ← newman
- conference ← ecai ecmlpkdd gvd iccs icdm icfca recsys
- folksonomy ← bookmarking tagging
- geo ← gps map utm
- howto ← manual reference tutorial
- location ← anhalt berlin bitterfeld bied celle dagstuhl dresden europe frankfurt hannover hessen italien kassel london magdeburg ort saarland sachsen sachsen_anhalt toulouse tübingen wadern wittenberg würzburg
- ort ← location
- programming ← ada c fortran java lisp perl prolog python ruby
- protocol ← ftp http smtp
- researcher ← devadze shannon turing
- science ← chemistry math
- software ← apache beagle cocoa debian eclipse firefox haystack nextstep photoshop protege thunderbird weka wine word x11 zope
- sport ← basketball football volleyball
- to* ← tobuy todo toread towatch

your spheres

BibSonomy-Follower home work

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bookmarks 1228



OpenCitations - Home

1



<http://opencitations.net/>

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citation data dataset open

★★★★★ (0)



Handbuch Open Science – Wikibooks, Sammlung freie...

1



https://de.wikibooks.org/wiki/Handbuch_Open_Science

23 days ago by @jaeschke

handbuch open science wikibooks

★★★★★ (0)



Comparison of research networking tools and research...

1



https://en.wikipedia.org/wiki/Comparison_of_research_...

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gaw network profile researcher

★★★★★ (0)



Hermitage: Testing the "I" in ACID — Martin Kleppman...

1



<https://martin.kleppmann.com/2014/11/25/hermitage-tes...>

2 months ago by @jaeschke

acid base database isolation nosql sql

★★★★★ (0)



publications 1082



Tropical Truth(s): The Epistemology of Metaphor and ot...

1



A. Burkhardt, and B. Nerlich (Eds.). . *De Gruyter*, (2010)

5 days ago by @jaeschke

dh epistemology language metaphor text trope

★★★★★ (0)



Why does deep and cheap learning work so well?

3



H. Lin, and M. Tegmark. (2016) *cite arxiv:1608.08225* Comment: 14 pages, 3 figs.

6 days ago by @jaeschke

deep learning machine network neural

★★★★★ (0)



Web Archiving: Issues and Methods

1



J. Masanès. page 1--53. *Springer, Berlin/Heidelberg*, (2006)

12 days ago by @jaeschke

archive web

★★★★★ (0)



Determining the Optimal Session Interval for Transactio...

2



S. Wakeling, and P. Clough. page 703--708. *Springer*, (2016)

14 days ago by @jaeschke

catalogue digital dl interval library log session

★★★★★ (0)



@jaeschke

Robert Jäschke



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discussion

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blog bookmarking citation collaborative

collective community computing concept data

dataset fca folksonomy fotw geo

graph information intelligence java library

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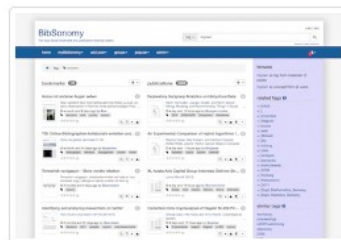
scientometrics search semantic sna

social survey tag tagging toread twitter

visualization web wikipedia



BibSonomy denotes a **social bookmarking system** as well as the underlying **technical platform**. The system enables users to share and annotate bookmarks and publications. This page is the entry point for developers interested in the software platform underlying **BibSonomy** and **PUMA**.



The web application is based on Java, backed-up by a MySQL database and Elasticsearch for fulltext search. The BibSonomy platform is developed by the **KDE group** of the University of Kassel, the **DMIR group** of the University of Würzburg, the **L3S Research Center**, and **HothoData**.

Development

- Overview
- API Documentation
- Maven Repository
- REST Clients for Java, PHP, Python and Ruby
- Contributing Scrapers

Integration

- PUMA
- TYPO3 Extension
- WordPress Plugin
- TeXlipse Plugin
- JabRef Plugin
- List of Services

Research

- Citing BibSonomy
- Data Dumps
- Our Publications
- "BibSonomy dataset"
- Discovery Challenges 2008 and 2009

What is BibSonomy?

- Getting Started
- Browser Buttons
- Help
- Feature of the Week
- Scientific Perspective

About & Contact

- Team
- Terms of Use
- Contact
- Reporting Issues
- Donating

News

- [Blog](#)
- [@BibSonomyCrew](#)
- [#bibsonomy](#)
- [Google+ Community](#)
- [Mailing List](#)

<http://dev.bibsonomy.org/>



BibSonomy Development Portal

The features for the next release (3.7.0) are documented in the [Release Log](#).

Starting as a Developer

Start with reading the description on [how to set up a BibSonomy workspace](#). If you are experiencing any problems, contact one of the [main developers](#). The source code is regularly released on [bibsonomy.org](#) - what this means for you is documented in the [release process](#).

Tutorials

- Best Practices
- How to use the version control system
- Errors and Fixes
- Eclipse Tips and Tricks
- User Support - how to help users that have problems with BibSonomy
- SSL-Certificates

Module Documentation

This section provides information about some of the modules of BibSonomy.

- general Configuration
- modified programming libraries

Model

- How do the [publication hashes](#) work?

Database

- changing the Database Schema
- assignment of the Chains of Responsibility

Webapp

- Internationalization
- EL, JSP & JSTL Documentation
- Infos regarding JQuery updates
- Spring Security
- UriRewriteFilter
- Structured Data Markup

Other

- Clicklog
- Help
- Lucene
- Shared Resource Search
- Pingback: Pingback and Trackback
- Scraper
- Sync
- Person Names
- Changed Posts
- OpenSocial
- SystemTags
- SystemTagsArchitecture

Planned Developments and Discussions

Roadmap

- History
- Accessing Documents
- Community Posts
- Groups
- UpdateScript
- Development Discussion

Updated 2016-07-11





- plan for times with limited resources
- invest time in community building
- do not underestimate complexity of development





load balancing

replication

backup

geographical
distribution

protection

monitoring

notification

maintenance

user relations

communication

```
bibsonomy@gandalf:~$ uptime
10:03:44 up 1041 days, 21:05,  4 users,  load average: 0.00, 0.01, 0.05
bibsonomy@gandalf:~$ date
Do 8. Sep 10:04:19 CEST 2016
```




[New registrations](#)[Admin: Spammer](#)[Admin: Unsure](#)[Admin: No Spammer](#)[Classifier: Spammer](#)[Classifier: Spammer \(U\)](#)[Classifier: No Spammer \(U\)](#)[Classifier: No Spammer](#)[Modified BibTeX Users](#)(show [100](#) - [500](#) - [1000](#) entries)

Spammer?	Username	Name	IP	E-Mail	Regdate	Algorithm	Mode	Conf.	Updated
☐ no ☐ ? ☒ yes					Sep 28, 2016 10:54 PM	Logistic_gm	D	0.574	Sep 28, 2016 10:59 PM
☐ no ☐ ? ☒ yes					Aug 18, 2016 7:16 AM	Logistic_gm	D	0.569	Sep 28, 2016 10:32 PM
☐ no ☐ ? ☒ yes					Sep 28, 2016 9:36 PM	Logistic_gm	D	0.658	Sep 28, 2016 9:41 PM
☐ no ☐ ? ☒ yes					Aug 10, 2016 2:45 PM	Logistic_gm	D	0.671	Sep 28, 2016 9:21 PM
☐ no ☐ ? ☒ yes					Sep 28, 2016 7:37 PM	Logistic_gm	D	0.636	Sep 28, 2016 8:19 PM
☐ no ☐ ? ☒ yes					Apr 21, 2016 11:03 AM	Logistic_gm	D	0.667	Sep 28, 2016 8:03 PM

Dear Webmaster,

I am the webmaster of [www. \[redacted\] .au](#). It would be greatly appreciated if you remove links to my website. My Links can be found on these following pages

<http://www.bibsonomy.org/user/lowcostseo11?lang=ru>

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<http://www.bibsonomy.org/user/lowcostseo11?resourcetype=bookmark>

Referring_Page_URL..Please could you let me know when you have completed this removal or if you are unable to meet this request and the reasons for this.

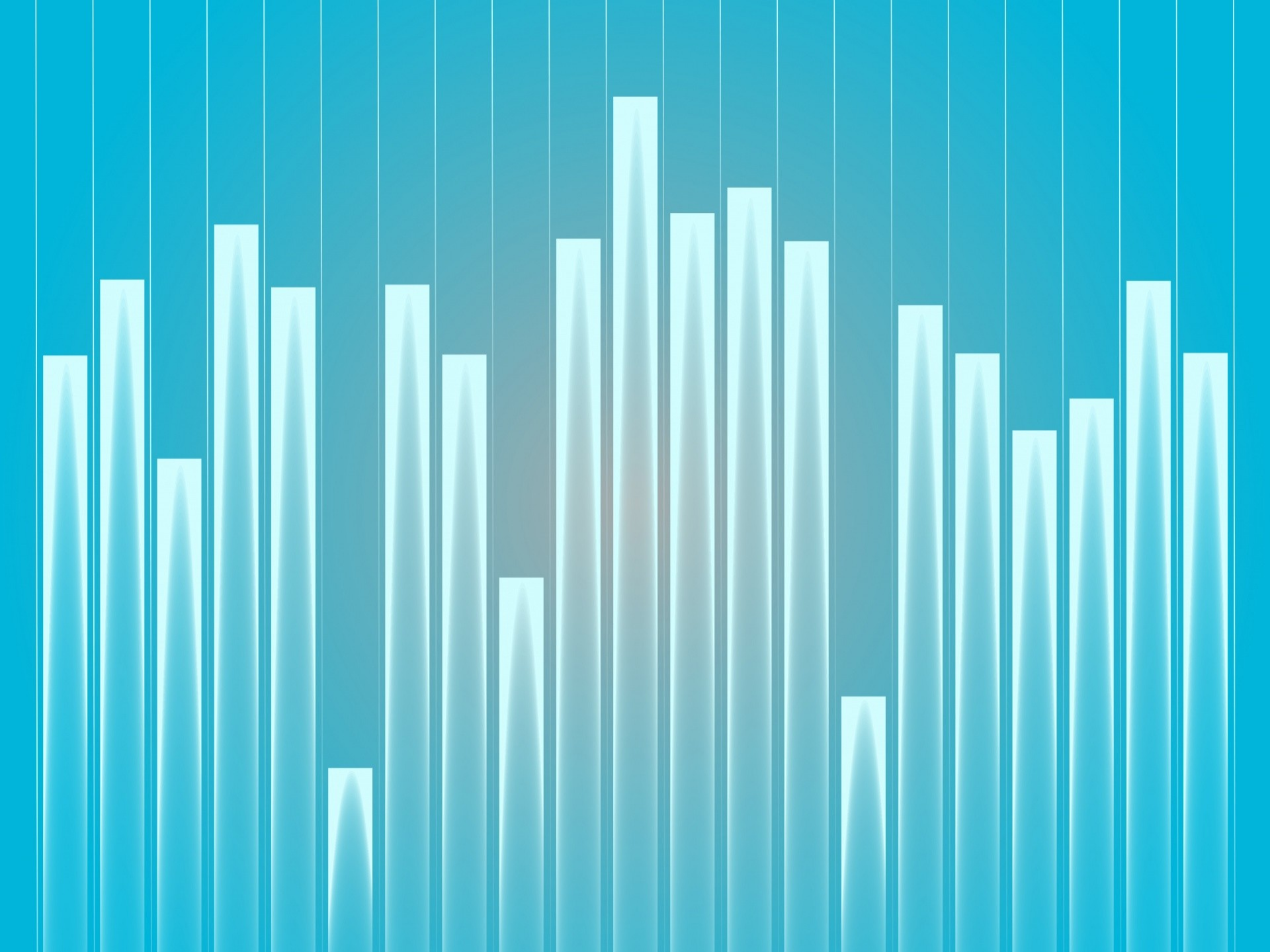
Thank you in advance for your co-operation in this matter.

Kind Regards,
Webmaster

[www. \[redacted\] .au](#)

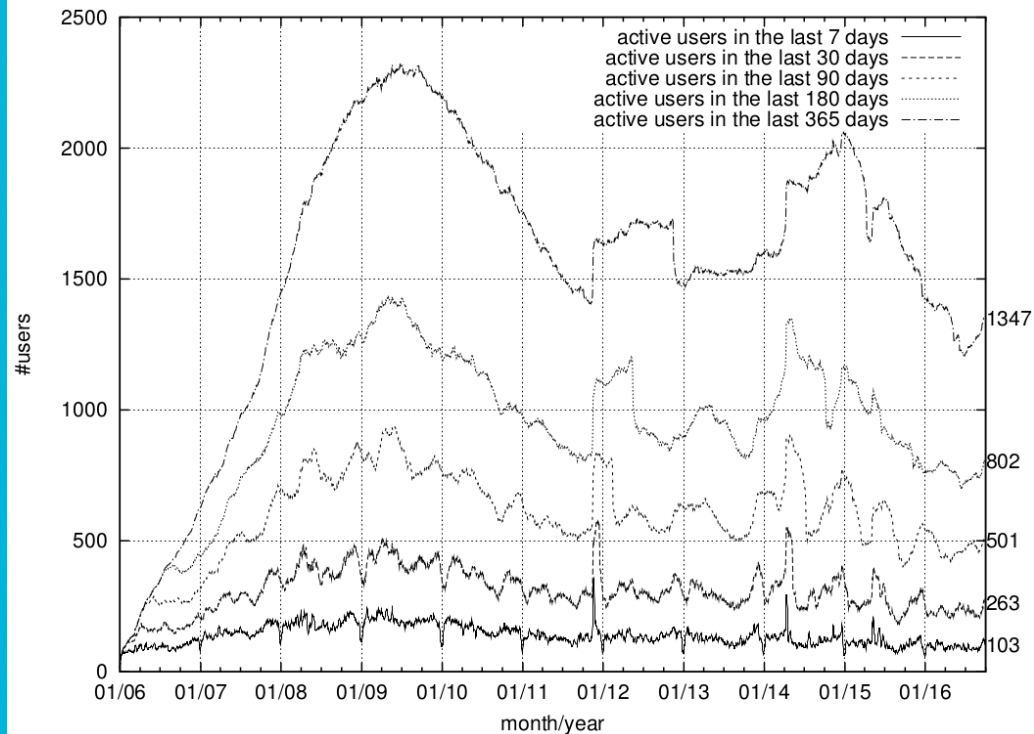


- be professional early on
- distribute responsibilities
- do not underestimate effort for user interaction
- be prepared for weird user behavior ;-)



	bookmarks	publications
resources:	625k	938k
posts:	727k	1045k
documents:	-	51k
users:	9k	10k

+ more than 5 million posts from DBLP & DNB
+ 2.5 million users that are flagged as spammers





- many more users would require more resources
- measures against spam crucial
- optimizing database schema + queries pays off



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Tagora

Semiotic Dynamics
in Online Social Communities

Info 2.0

Informational Self-Determination
in the Web 2.0



PUMA

Academic Publication Management

WISKIDZ

Changes in Academic Career Dynamics
in Germany

DESIR

DARIAH ERIC Sustainability Refined

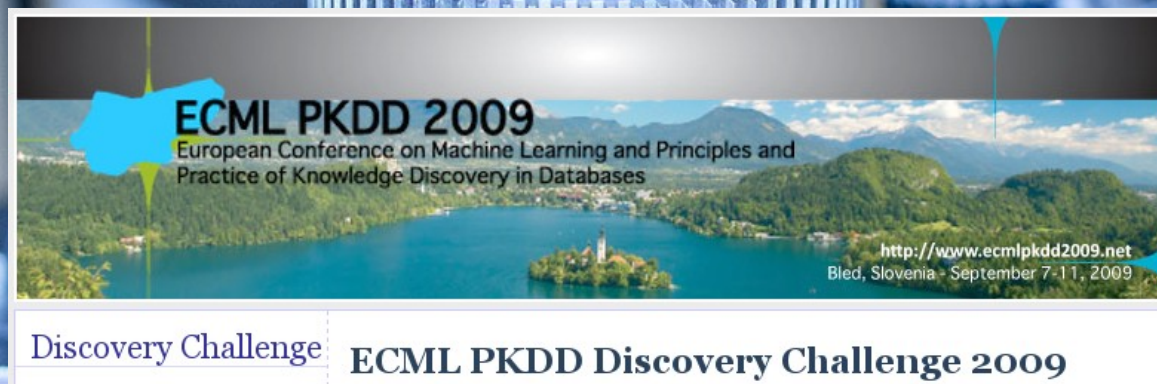


ECML PKDD 08 RSDC'08 ECML PKDD Discovery Challenge 2008

15th September 2008; Antwerp, Belgium

Discovery Challenge ECML PKDD Discovery Challenge 2008

The banner features a red vertical bar on the left with the text 'ECML PKDD 08' in white. To the right is a blue horizontal bar with a white skyline of Antwerp, Belgium, and the text 'RSDC'08' and 'ECML PKDD Discovery Challenge 2008'. Below this is a white bar with the text '15th September 2008; Antwerp, Belgium'. At the bottom is a white bar with the text 'Discovery Challenge' and 'ECML PKDD Discovery Challenge 2008'.



ECML PKDD 2009
European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases

<http://www.ecmlpkdd2009.net>
Bled, Slovenia - September 7-11, 2009

Discovery Challenge ECML PKDD Discovery Challenge 2009

The banner features a blue vertical bar on the left with a white map of Slovenia. To the right is a blue horizontal bar with a white landscape of Bled, Slovenia, and the text 'ECML PKDD 2009' and 'European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases'. Below this is a white bar with the text 'http://www.ecmlpkdd2009.net' and 'Bled, Slovenia - September 7-11, 2009'. At the bottom is a white bar with the text 'Discovery Challenge' and 'ECML PKDD Discovery Challenge 2009'.

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The blue social bookmark and publication sharing system.

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- unique opportunities if you run your own system
- can do A/B testing like the „big guys“
- research → production: a long and winding road
- need enthusiastic and persistent PhD students



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Akademisches Publikationsmanagement

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eLearning

Moodle

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DSpace

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verwaltung

Textver-
arbeitung

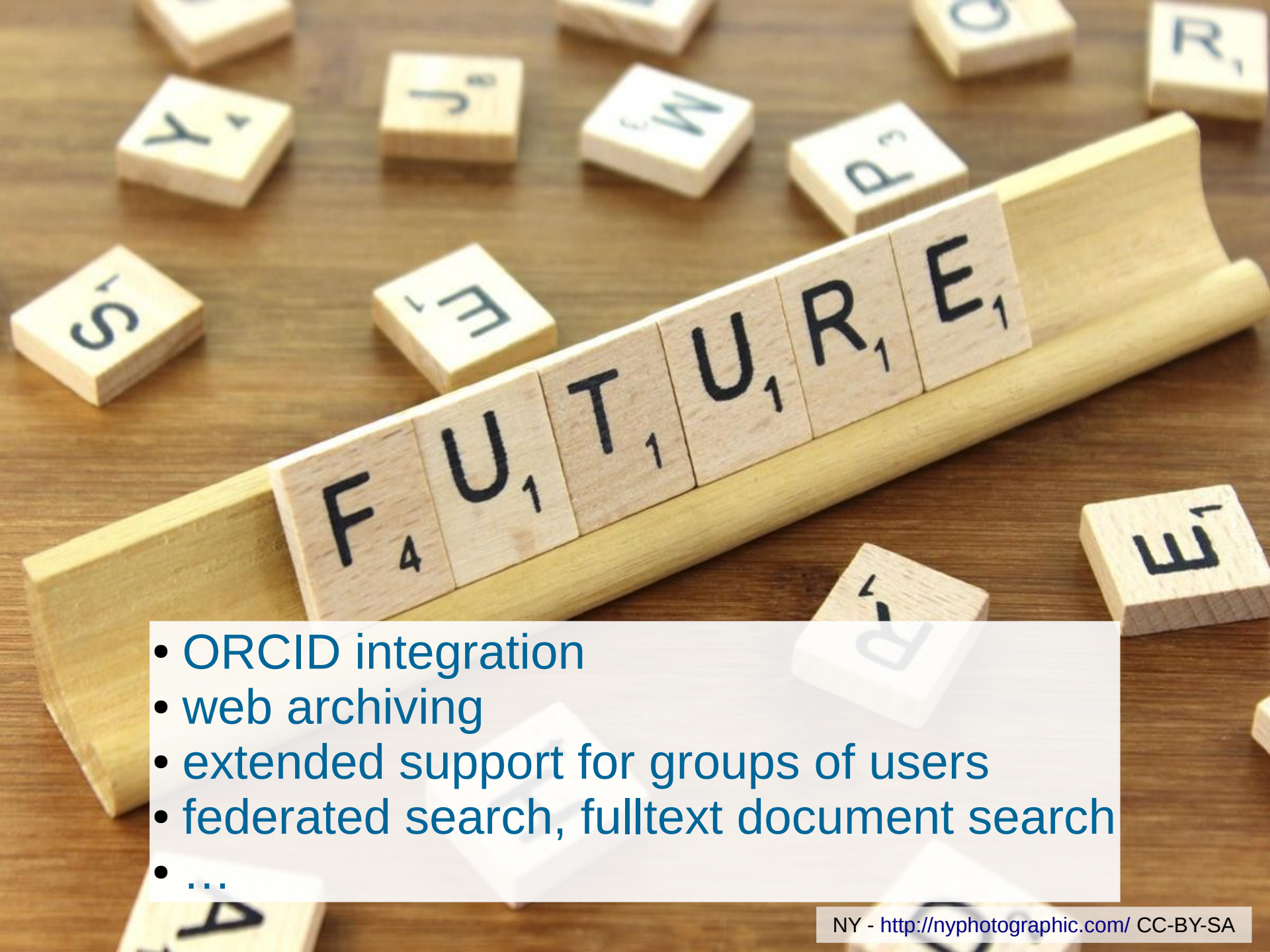
BibTeX, Endnote, Bibliographie-Stile

Converis

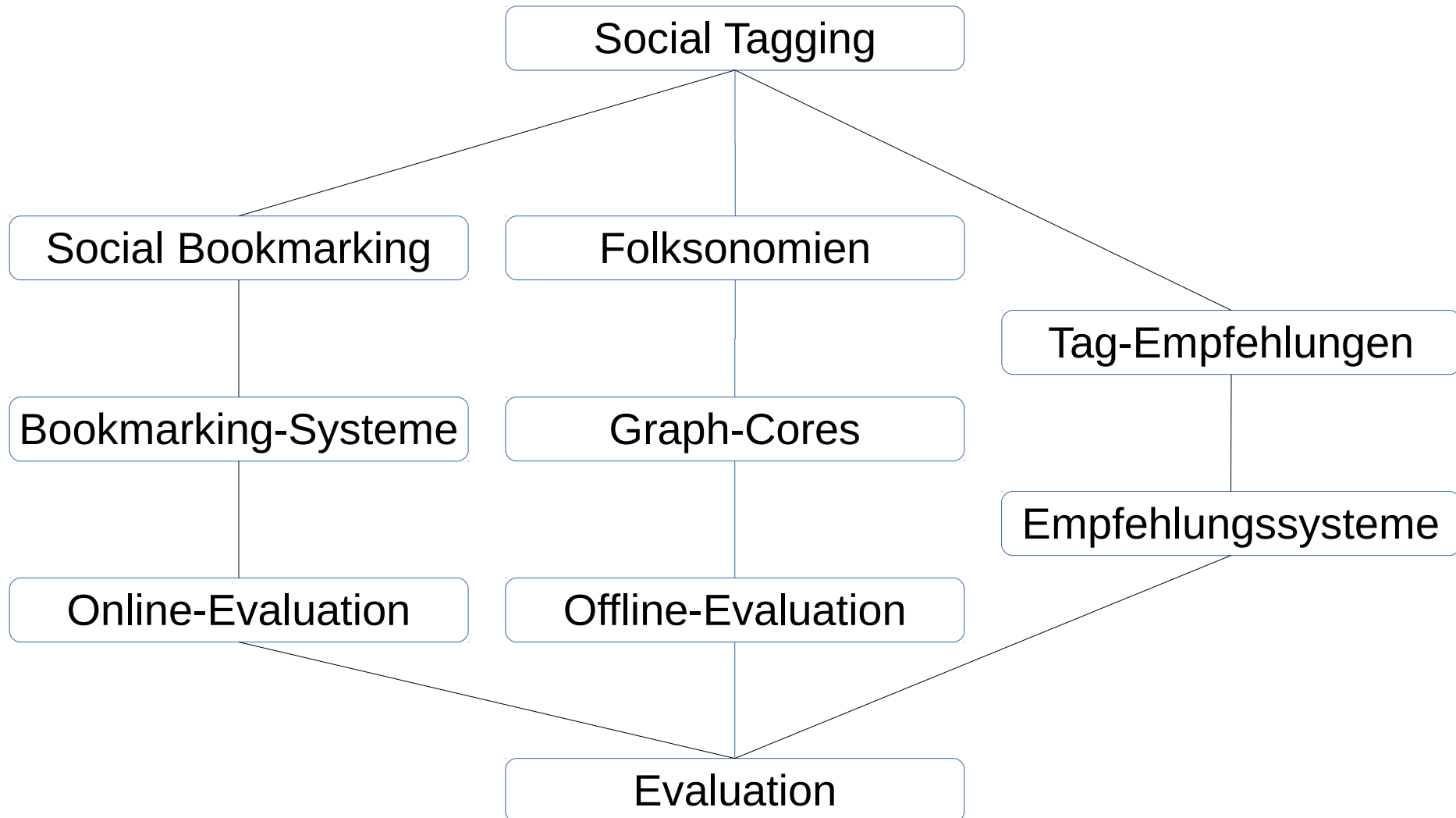
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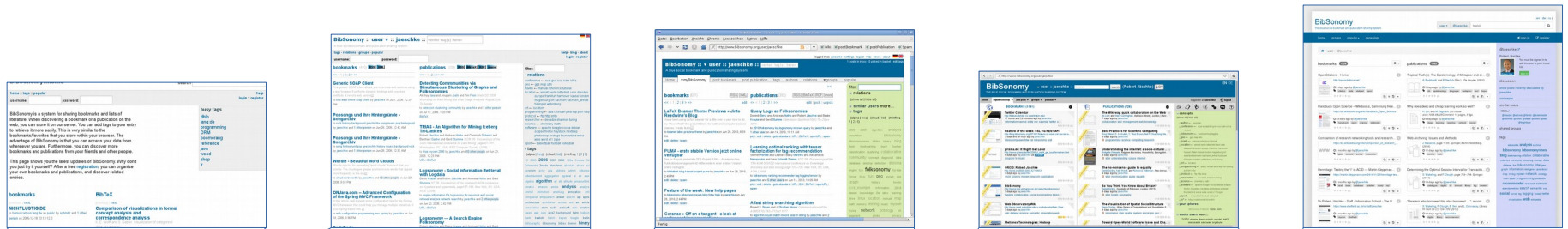


- 
- A close-up photograph of wooden Scrabble tiles on a wooden surface. The word "FUTURE" is spelled out using tiles with the letters F, U, T, U, R, E, each with a small number below it (4, 1, 1, 1, 1, 1). The tiles are arranged in a slightly curved line. Several other tiles are scattered around, including S, Y, J, W, P, R, E, and A.
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 - web archiving
 - extended support for groups of users
 - federated search, fulltext document search
 - ...

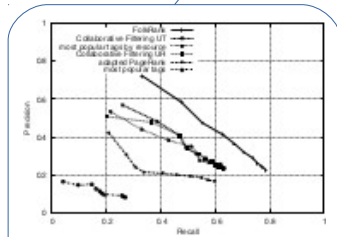
Agenda



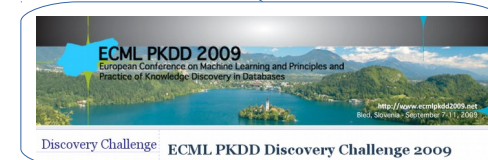
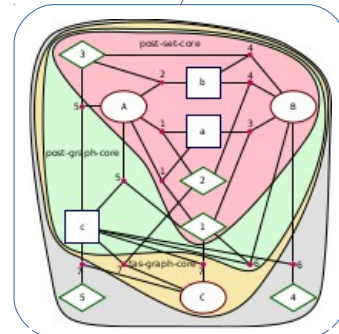
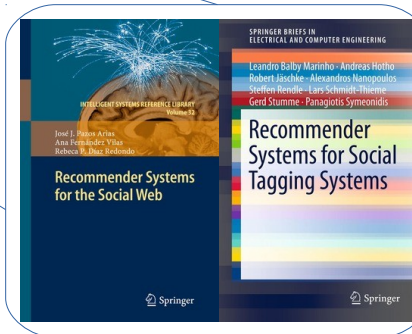
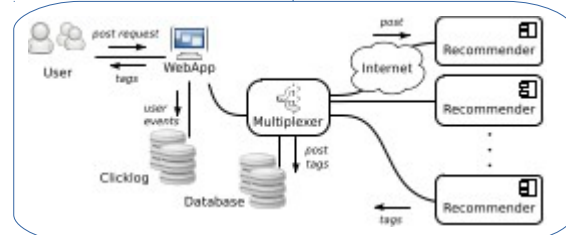
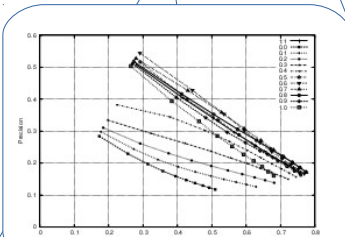
Tag-Empfehlungen



2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016



$$\vec{w} \leftarrow dA\vec{w} + (1-d)\vec{p}$$



Abschluss

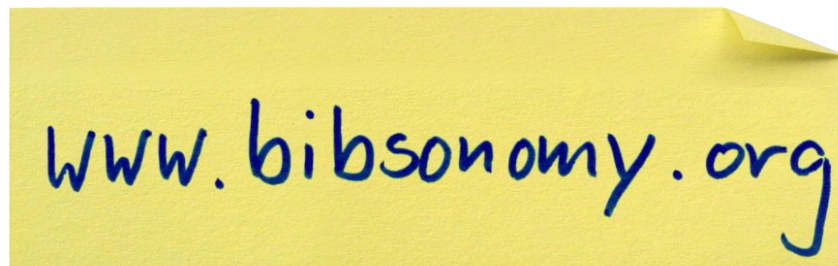
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- Aktuell:



- selbst taggen:



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