### **Top Conference Survey**

# 18th International World Wide Web Conference (WWW2009)

### 豊田正史 東京大学生産技術研究所

## WWW2009 (4/20-4/24, Madrid)

- Web関連の研究分野で世界最大の国際会議
  - 13リサーチトラック: 888件投稿, 104件採録(12%)
  - 14チュートリアル
  - 10ワークショップ: WICOW(田中先生), AIRWebなど
- 論文とプレゼンテーションはオンライン公開済
  - www2009.eprints.org





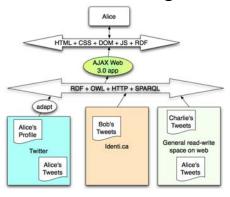


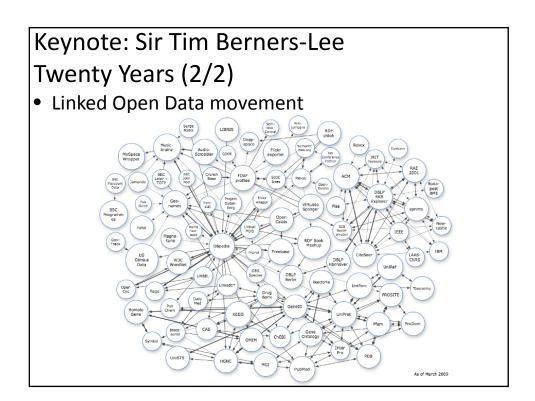
# Keynote: Sir Tim Berners-Lee Twenty Years (1/2)



Social Silo Problem→Open Social Networking







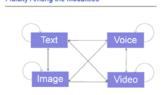
Keynote: Alfred Z. Spetcor (Google) The Continuing Metamorphosis of the Web (1/2)

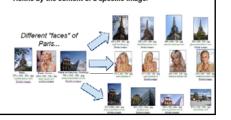


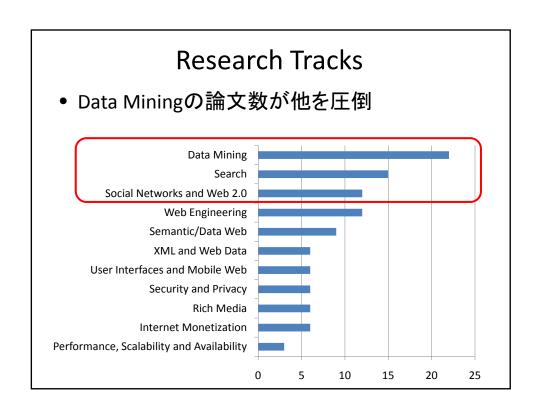
- Totally Transparent Processing
- Ideal Distributed Computing
- Hybrid, Not Artificial, Intelligence

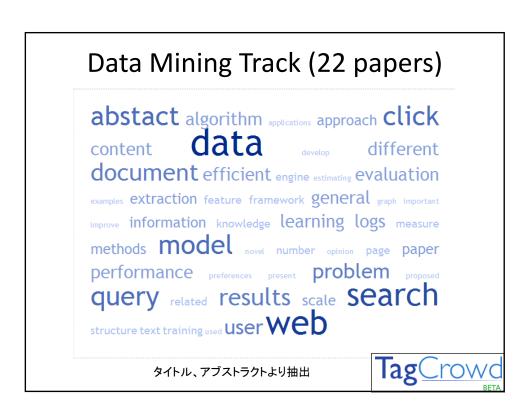
Keynote: Alfred Z. Spetcor (Google)
The Continuing Metamorphosis of the Web (2/2)

- Totally Transparent Processing
  - Set of all Devices, Languages, Modalities, Corpora
    - Google Voice
      - query log, voice logによる大規模学習
    - Google Translate
      - 41ヶ国語
    - Cross-language search
    - YouTube Caption Translation
    - Similar Images in Image Search









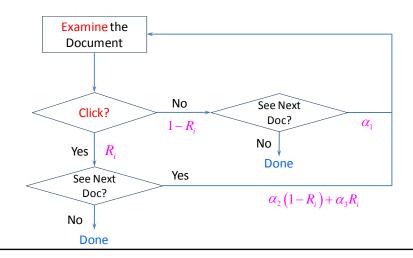
## Data Mining: 検索ログ関連論文

- MSR Guo, Fan and Liu, Chao and Kannan, Anitha and Minka, Tom and Taylor, Michael and Wang, Yi-Min and Faloutsos, Christos Click Chain Model in Web Search.
- Yahoo! Lab Chapelle, Olivier and Zhang, Ya
   A Dynamic Bayesian Network Click Model for Web Search Ranking.
- MSR Korolova, Aleksandra and Kenthapadi, Krishnaram and Mishra, Nina and Ntoulas, Alexandros Releasing Search Queries and Clicks Privately. (Best paper cand.)
- Yahoo! Lab Agarwal, Deepak and Chen, Bee-Chung and Elango, Pradheep
  - <u>Spatio-Temporal Models for Estimating Click-through Rate.</u>
- MSRA Cao, Huanhuan and Jiang, Daxin and Pei, Jian and Chen, Enhong and Li, Hang
   Towards Context-Aware Search by Learning a Very Large Variable Length Hidden Markov Model from Search Logs.

MSR Guo, Fan and Liu, Chao and Kannan, Anitha et. al

#### **Click Chain Model in Web Search.**

• 検索結果を見る際のユーザの挙動をモデル化し 文書のuser-perceived relevanceを検索ログから推測



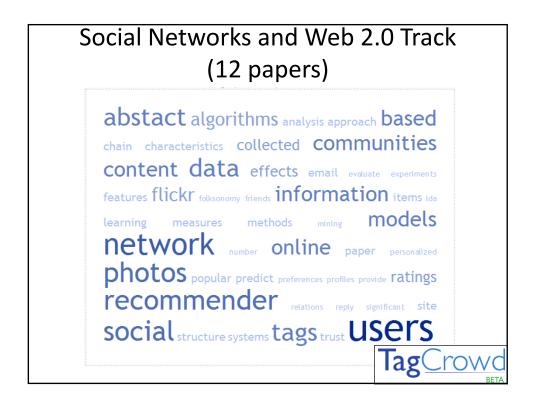
## Search Track (15 papers)



## Search Track: パフォーマンス系

- Yahoo! Chierichetti, Flavio and Kumar, Ravi and Raghavan, Prabhakar
   Compressed Web Indexes.
- Yahoo!, NYU Gan, Qingqing and Suel, Torsten
   Improved Techniques for Result Caching in Web Search Engines.
- Yahoo!, NYU Yan, Hao and Ding, Shuai and Suel, Torsten Inverted Index Compression and Query Processing with Optimized Document Ordering.
- Yahoo! Pandey, Sandeep and Broder, Andrei and Chierichetti, Flavio and Josifovski, Vanja and Kumar, Ravi and Vassilvitskii, Sergei Nearest-Neighbor Caching for Content-Match Applications.
- Yahoo!, NYU Ding, Shuai and He, Jinru and Yan, Hao and Suel, Torsten
   <u>Using Graphics Processors for High Performance IR Query Processing.</u>





## Social Network: Frickr系

- USC Plangprasopchok, Anon and Lerman, Kristina <u>Constructing Folksonomies from User-Specified Relations</u> on Flickr.
- Cornell Crandall, David and Backstrom, Lars and Huttenlocher, Daniel and Kleinberg, Jon Mapping the World's Photos. (Best paper cand.)
- MPI-SWS Cha, Meeyoung and Mislove, Alan and Gummadi, Krishna P.
  - A Measurement-driven Analysis of Information Propagation in the Flickr Social Network.
- U. Sheffield San Pedro, Jose and Siersdorfer, Stefan <u>Ranking and Classifying Attractiveness of Photos in</u> Folksonomies.

