ICDM 2014 Report

Honglei Zhuang
General Information

• Held in Shenzhen, China
• December 14-17, 2014

• 727 submissions:
  – 71 accepted as regular papers (9.7%)
  – 71 accepted as short papers (19%)

• Online Spectral Learning on a Graph with Bandit Feedback
  Quanquan Gu and Jiawei Han

• Mining Query-Based Subnetwork Outliers in Heterogeneous Information Networks
  Honglei Zhuang, Jing Zhang, George Brova, Jie Tang, Hasan Cam, Xifeng Yan, and Jiawei Han

• A Parallel and Efficient Algorithm for Learning to Match
  Jingbo Shang, Tianqi Chen, Hang Li, Zhengdong Lu, and Yong Yu
• Word cloud from titles and abstracts of accepted papers
Best Papers

• **Best Paper Award**
  – *Ternary Matrix Factorization*
    • Sam Maurus and Claudia Plant
    • Helmholtz Zentrum München, Technische Universität München

• **Best Student Paper Award**
  – *Factorized Similarity Learning in Networks*
    • Shiyu Chang, Guo-Jun Qi, Charu Aggarwal, Jiayu Zhou, Meng Wang, and Thomas Huang
    • Beckman Institute, University of Illinois at Urbana-Champaign
    • University of Central Florida, IBM T.J. Watson Research Center, Arizona State University, Hefei University of Technology
Best Paper Award

- *Ternary Matrix Factorization*
  - Sam Maurus and Claudia Plant
  - Helmholtz Zentrum München, Technische Universität München

- Proposed a matrix factorization algorithm on a matrix containing *three* possible values
- Can be applied to logical data sets, where a matrix might consist of *true/false/unknown* values
Best Student Paper Award

• *Factorized Similarity Learning in Networks*
  – Shiyu Chang, Guo-Jun Qi, Charu Aggarwal, Jiayu Zhou, Meng Wang, and Thomas Huang
  – University of Illinois at Urbana-Champaign

• Integrating links, node features and user supervision into consideration to learn the similarity between vertices
10-Year ICDM Highest-Impact Paper Award

• *Supervised Tensor Learning*
  – Dacheng Tao, Xuelong Li, Weiming Hu, Stephen Maybank, and Xindong Wu
  – ICDM '05, pp. 450-457
ICDM 2015

- Atlantic City, NJ
- November 14-17, 2015
- Much earlier than before!
- Full paper submissions: Jun 03, 2015