

# LIANG CHEN

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## BIOGRAPHY

Mr. Liang Chen is currently a sixth-year Ph.D. student under the supervision of [Prof. Zhaohui Wu](#) and [Prof. Jian Wu](#), in the College of Computer Science and Technology of Zhejiang University. He is currently the chair of CCF (China Computer Federation) student chapter in Zhejiang University. He received his Bachelor's degree in College of Computer Science majoring in Computer Science and Technology from Zhejiang University in 2009. He was awarded the title of graduate with honor of Zhejiang University and Chu Kechen college honor's degree.

His papers have been published in many well-known conference proceedings and international journals (TSC, T-SMC, KAIS, WWWJ, WWW, PAKDD, CIKM, WSDM, ICWS, ICSOC, etc). He served as the Co-chair of one workshop in CIKM'14, PC-chair of workshops in BigData'14, PAKDD'14, APSCC'14. Moreover, He served as PC member of many conferences. His research area includes Service Oriented Computing, Social Network, Recommendation System, and Heterogeneous Information Network. His research focuses on solving traditional challenges via heterogeneous data sources and data mining techniques.

## WORKING EXPERIENCE

- **University of Illinois at Chicago**—Chicago, IL, USA  
*Big Data and Social Computing (BDSC) Lab: Jan. 2014 - July 2014*
  - Visiting Scholar, Host: **Prof. Philip S. Yu**, ACM/IEEE Fellow.
  - Research Topic: Heterogeneous Feature Selection for Service Mining
- **The Chinese University of Hong Kong**—Shatin, Hong Kong  
*VIEW Lab: March. 2012 - Sep. 2012*
  - Research Assistant, Host: **Prof. Michael R. Lyu**, IEEE Fellow.
  - Research Topic: Modeling and exploring social tags to facilitate Web service mining
- **Microsoft Research Asia**—Beijing, China  
*Web Data Management Group (WDM): Sep. 2010 - Dec, 2010*
  - Research Intern, Mentor: **Dr. JiRong Wen**, Senior Researcher.
  - Research Topic: Probing technology in Web Services

## EDUCATION

- **Zhejiang University**—Hangzhou, China, Sep. 2009 - present  
*Pursuing Ph.D. degree in Computer Science and Technology*
  - Under the supervision of Prof. Zhaohui Wu and Prof. Jian Wu.
  - **Expected Graduation Date: June, 2015**

- **Zhejiang University**—Hangzhou, China, Sep. 2005 - July. 2009  
*B. S. in Computer Science and Technology*
  - Thesis: *Optimizing Web Service Composition*, under the supervision of Prof. Ying Li.

## SELECTED AWARDS

### • IMPORTANT AWARDS

- CSC-IBM China Outstanding Student Award, China, 2013
- National PhD. Scholarship, Ministry of Education, China, 2012,2013
- Huawei Scholarship Band One, Huawei Technologies Co.,Ltd, 2012
- Dankong Scholarship for Doctor, Zhejiang University, 2011
- Graduate of Merit/Triple A graduate, Zhejiang University, 2011,2013
- First-class Award of Honor for Graduate, Zhejiang University, 2010,2011,2012, 2013
- Weichai Power Scholarship Band Two, Weichai Power Co.,Ltd, 2010
- Star of Tomorrow Internship Award, Microsoft Research Asia, 2010.
- Postgraduate Studentship, Zhejiang University, 2009-2014.
- Awarded the title of graduate with honor of Zhejiang University, Zhejiang University, 2009.
- Awarded Chu KeChen college honor's degree, Zhejiang University, 2009.

### • OTHER AWARDS

- Saibole Venture Competition First Prize, Saibole Inc., 2009.
- Tencent Innovation Contest Second Prize, Tencent Inc., 2008.
- Excellent Undergraduate Scholarship, Zhejiang University, 2006.

## JOURNAL ARTICLES

- [KAIS] Modeling and Exploiting Tag Relevance for Web Service Mining, **Liang Chen**, Jian Wu, Zibin Zheng, Yanan Xie, Michael R. Lyu, and Zhaohui Wu. In International Journal of Knowledge and Information Systems, Volume 39, Issue 1, 2014, pp. 153-173. [Impact Factor = 2.639]
- [KAIS] Clustering Web Services to Facilitate Service Discovery, Jian Wu, **Liang Chen [First Student Author]**, Zibin Zheng, Michael R. Lyu, and Zhaohui Wu. In International Journal of Knowledge and Information Systems, Volume 38, Issue 1, 2014, pp. 207-229.[Impact Factor = 2.639]
- [TSMC] Predicting Quality of Service for Selection by Neighborhood-based Collaborative Filtering, Jian Wu, **Liang Chen [First Student Author]**, Yipeng Feng, Zibin Zheng, Mengchu Zhou, and Zhaohui Wu. In IEEE Transactions on System, Man, and Cybernetics, Part A, Volume 43, Issue 2, 2013, pp. 428-439.[Impact Factor = 2.169]
- [TSC] Instant Recommendation for Web Services Composition, **Liang Chen**, Jian Wu, Hengyi Jian, Hongbo Deng, and Zhaohui Wu. In IEEE Transactions on Services Computing, online publish, 2013.[Impact Factor = 1.985]

- [TSC] Exploiting User Tagging for Web Service Co-clustering. Tingting Liang, **Liang Chen**, Haochao Ying, Qi Yu, Jian Wu, and Zhaohui Wu. In IEEE Transactions on Services Computing, Major Revision, 2015. [Impact Factor = 1.985]
- [TSC] Modern Service Industry and Crossover Services: Development and Trends in China. Zhaohui Wu, Shuiguang Deng, Jianwei Yin, Jian Wu, Ying Li, and **Liang Chen**. In IEEE Transactions on Services Computing, online publish, 2015. [Impact Factor = 1.985]
- [WWW] Trust-aware Media Recommendation in Heterogeneous Social Networks. Jian Wu, **Liang Chen [First Student Author]**, Qi Yu, Panpan Han, and Zhaohui Wu. In World Wide Web Journal, Volume 18, Issue 1, 2013, pp. 139-157. [Impact Factor = 1.623]
- [Cluster] Selecting Skyline Services for QoS-aware Composition by Upgrading MapReduce Paradigm. Jian Wu, **Liang Chen [First Student Author]**, Qi Yu, Li Kuang, Yilun Wang, and Zhaohui Wu. In Cluster Computing, Springer, Volume 16, Issue 4, 2013, pp. 693-706. [Impact Factor = 0.949]
- [IJWGS] Modeling and Exploring Historical Records to Facilitate Service Composition. Jian Wu, **Liang Chen [First Student Author]**, Yanan Xie, Lichuan Ji, and Zhaohui Wu. In International Journal of Web and Grid Services, Volume 10, Issue 1, 2014, pp. 54-79. [Impact Factor = 1.579]
- [AMIS] Selecting Dynamic Skyline Services for QoS-based Service Composition. Jian Wu, **Liang Chen [First Student Author]**, and Tingting Liang. In Applied Mathematics and Information Sciences, Volume 8, Issue 5, 2014, pp. 2579-2588. [Impact Factor = 1.232]
- [AMIS] Topic Model based Collaborative QoS Prediction. Jian Wu, Lichuan Ji, Tingting Liang, and **Liang Chen**. In Applied Mathematics and Information Sciences, Volume 8, Issue 5, 2014, pp. 2545-2555. [Impact Factor = 1.232]
- [AMIS] A Framework for Criteria of Services Behavioral Equivalence. Li Kuang, and **Liang Chen**. In Applied Mathematics and Information Sciences, Volume 5, Issue 2, 2011, pp. 1-7. [Impact Factor = 1.232]
- [JWSR] Composite Service Recommendation based on Bayes Theorem. Jian Wu, **Liang Chen [First Student Author]**, Hengyi Jian, and Zhaohui Wu. In International Journal of Web Services Research, Volume 9, Issue 2, 2011, pp. 69-93. [Impact Factor = 0.469]
- [JWSR] A Trust-aware Search Engine for Complex Service Computing. Mingdong Tang, Zibin Zheng, **Liang Chen**, Jianxun Liu, Buqing Cao, and Zhengguang You. In International Journal of Web Services Research, Volume 11, Issue 1, 2014, pp. 57-75. [Impact Factor = 0.469]
- [CJC] QoS-Skyline Based Dynamic Service Selection. Jian Wu, **Liang Chen [First Student Author]**, Shuiguang Deng, Ying Li, and Li Kuang. In Chinese Journal of Computers, Volume 33, Issue 11, 2010, pp. 2136-2146.

## CONFERENCE PAPERS

- [ICWS-15] WS-HFS: A Heterogeneous Feature Selection Framework for Web Services Mining. **Liang Chen**, Qi Yu, Philip S. Yu, and Jian Wu. In *22nd International Conference on Web Services, Research Track, accepted*, New York, USA, June 27 - July 2, 2015.  
[Acceptance Rate = 17.4%]
- [ICWS-15] Learning Sparse Functional Factors for Large-scale Service Clustering. Qi Yu, Hongbing Wang, and **Liang Chen**. In *22nd International Conference on Web Services, Research Track, accepted*, New York, USA, June 27 - July 2, 2015.  
[Acceptance Rate = 17.4%]
- [ICWS-15] Mainfold-Learning based API Recommendation for Mashup Creation. Wei Gao, **Liang Chen**, Jian Wu, and Honghao Gao. In *22nd International Conference on Web Services, Application Track, accepted*, New York, USA, June 27 - July 2, 2015.  
[Acceptance Rate = 21.9%]
- [ICWS-15] Time-aware API Popularity Prediction via Heterogeneous Features. Yao Wan, **Liang Chen**, Jian Wu, and Qi Yu. In *22nd International Conference on Web Services, Application Track, accepted*, New York, USA, June 27 - July 2, 2015.  
[Acceptance Rate = 21.9%]
- [MS-15] Exploiting Unique Characteristics of Mobile Backend Services to Recommend Right Ones. Guangtai Liang, Lijun Mei, Shaochun Li, and **Liang Chen**. In *4th International Conference on Mobile Services, accepted*, New York, USA, June 27 - July 2, 2015.
- [WSDM-15] Heterogeneous Information Network based Ranking and Clustering of Mobile Apps. Shuangling Bai, **Liang Chen**, and Jian Wu. In *Proceedings of the 8th International Conference on Web Search and Data Mining, workshop*, Shanghai, China, Feb. 2-6, 2015.  
[Acceptance Rate = 20%]
- [SOCA-14] Co-clustering WSDL Documents to Bootstrap Service Discovery. Tingting Liang, **Liang Chen**, Haochao Ying, and Jian Wu. In *Proceedings of the 7th International Conference on Service Oriented Computing and Applications*, Matsue, Japan, Nov. 17 - 19, 2014.  
[Acceptance Rate = 26%]
- [PAKDD-14] Data Augmented Maximum Margin Matrix Factorization for Flickr Group Recommendation. **Liang Chen**, Yilun Wang, Lichuan Ji, Tingting Liang, and Jian Wu. In *Proceedings of the 18th Pacific-Asia Conference on Knowledge Discovery and Data Mining*, Tainan, Taiwan, May 13 - 16, 2014.  
[Acceptance Rate = 10.8%]
- [SOCA-13] Collaborative QoS Prediction via Feedback-based Trust Model. **Liang Chen**, Yipeng Feng, and Jian Wu. In *Proceedings of the 6th International Conference on Service Oriented Computing and Applications*, Kauai, Hawaii, USA, Dec. 16 - 18, 2013.  
[Acceptance Rate = 20.3%]

- [SOCA-13] Predicting Quality of Service via Matrix Factorization and Topic Model. Tingting Liang, Lichuan Ji, **Liang Chen**, and Jian Wu. In *Proceedings of the 6th International Conference on Service Oriented Computing and Applications*, Kauai, Hawaii, USA, Dec. 16 - 18, 2013.  
[Acceptance Rate = 20.3%]
- [MIDDLEWARE-13] Galaxie: A P2P Based EDSOA Platform for Cloud Services. Chen Shen, Yao Zhao, and **Liang Chen**. In *ACM/IFIP/USENIX International Middleware Conference, Demo Track*, Beijing, China, Dec 9-13, 2013.
- [CIKM-13] Content-boosted Maximum Margin Matrix Factorization for Flickr Group Recommendation. Yilun Wang, **Liang Chen**, and Jian Wu. In *Proceedings of 22nd ACM International Conference on Information and Knowledge Management, DUBMOD workshop*, San Francisco, USA, Oct. 27 - Nov. 1, 2013.
- [ICSOC-13] WT-LDA: User Tagging Augmented LDA for Web Service Clustering. **Liang Chen**, Yilun Wang, Qi Yu, Zibin Zheng, and Jian Wu. In *Proceedings of the 11th International Conference on Service Oriented Computing*, Berlin, German, Dec 2 - 5, 2013.  
[Acceptance Rate = 13%]
- [CIKM-13] iNewsBox: Modeling and Exploiting Implicit Feedback for Building Personalized News Radio. Yanan Xie, **Liang Chen**, Kunyang Jia, Lichuan Ji, and Jian Wu. In *Proceedings of 22nd ACM International Conference on Information and Knowledge Management, Demo Track*, San Francisco, USA, Oct. 27 - Nov. 1, 2013.
- [BIGDATA-13] Full Recognition of Massive Commodities Based on Property Set. Li Kuang, **Liang Chen**, Yanan Xie, and Jian Wu. In *IEEE International Congress on Big Data*, Santa Clara Marriott, USA, June 27- July 2, 2013.
- [PAKDD-13] A Semantic-based Dual Caching System for Nomadic Web Service. Panpan Han, **Liang Chen**, and Jian Wu. In *Proceedings of the 17th Pacific-Asia Conference on Knowledge Discovery and Data Mining, workshop*, Gold Coast, Australia, April 14-17, 2013.  
[Acceptance Rate = 22%]
- [PAKDD-13] FTCRank: Ranking Components for Building Highly Reliable Cloud Applications. Hanze Xu, Yanan Xie, Dinglong Duan, **Liang Chen**, and Jian Wu. In *Proceedings of the 17th Pacific-Asia Conference on Knowledge Discovery and Data Mining, workshop*, Gold Coast, Australia, April 14-17, 2013.  
[Acceptance Rate = 22%]
- [ICSOC-12] WSTRank: Ranking Tags to Facilitate Web Service Mining. **Liang Chen**, Zibin Zheng, Yipeng Feng, Jian Wu, and Michael R. Lyu. In *Proceedings of the 10th International Conference on Service Oriented Computing*, Shanghai, China, Nov 12 - 15, 2012.  
[Acceptance Rate = 29%]
- [ICWS-12] WSCRec: Utilizing Historical Information to Facilitate Web Service Composition. **Liang Chen**, Hengyi Jian, and Jian Wu. In *Proceedings of the 10th International Conference on Web Services*, Honolulu Hawaii, USA, June 24-29, 2012.  
[Acceptance Rate = 17%]

- [IPDPS-12] MapReduce based skyline services selection for QoS-aware composition. **Liang Chen**, Li Kuang, and Jian Wu. In *Proceedings of the 26th International Parallel and Distributed Processing Symposium, workshop*, Shanghai, China, May 21-25, 2012.
- [IPDPS-12] MapReduce Skyline Query Processing with a New Angular Partitioning Approach. **Liang Chen**, Kai Hwang, and Jian Wu. In *Proceedings of the 26th International Parallel and Distributed Processing Symposium, workshop*, Shanghai, China, May 21-25, 2012.
- [WWW-12] Titan: A System for Effective Web Service Discovery. Jian Wu, **Liang Chen**, Yanan Xie, and Zibin Zheng. In *Proceedings of the 21st World Wide Web Conference, Demo Track*, Lyon, France, April 16 - 20, 2012.  
[Acceptance Rate = 20%]
- [ICSOC-11] WTCluster: Utilizing Tags for Web Services Clustering. **Liang Chen**, Liukai Hu, Zibin Zheng, and Jian Wu. In *Proceedings of the 9th International Conference on Service Oriented Computing*, Paphos, Cyprus, Dec 5 - 8, 2011.  
[Acceptance Rate = 16%]
- [SCC-11] An Enhanced QoS Prediction Approach for Service Selection. **Liang Chen**, Yipeng Feng, Jian Wu and Zibin Zheng. In *Proceedings of the 8th International Conference on Service Computing*, Washington DC, USA, July 5-10, 2011.  
[Acceptance Rate = 26%]
- [SCC-11] QoS-based distributed service selection in large-scale web services. Limin Pan, **Liang Chen**, Jian Hui and Jian Wu. In *Proceedings of the 8th International Conference on Service Computing*, Washington DC, USA, July 5-10, 2011.  
[Acceptance Rate = 26%]
- [SCC-11] CBBCM: Clustering Based Automatic Service Composition. Yin Ma, **Liang Chen**, Jian Hui and Jian Wu. In *Proceedings of the 8th International Conference on Service Computing*, Washington DC, USA, July 5-10, 2011.  
[Acceptance Rate = 26%]
- [CSSS-11] Skyline Web Service Selection with MapReduce. Limin Pan, **Liang Chen** and Jian Wu. In *Proceedings of International Conference on Computer Science and Service System*, Nanjin, China, June 27-29, 2011.
- [ICWS-10] Recommendation on Uncertain Services. **Liang Chen**, Jian Wu and Ru Jia. In *Proceedings of the 8th International Conference on Web Services*, Miami, USA, July 5-10, 2010.  
[Acceptance Rate = 17.6%]
- [SERVICES-10] Service Recommendation: Similarity-based Representative Skyline. **Liang Chen**, Jian Wu, Shuiguang Deng and Ying Li. In *Proceedings of the 6th IEEE World Congress on Services*, Miami, USA, July 5 - 10, 2010.

## PROFESSIONAL ACTIVITIES

- **Workshop Co-Chair**
  - The 3rd Workshop on Data-Driven User Behavior Modelling and Mining from Social Media (DUBMOD'14), in conjunction with CIKM 2014.

- Special Track on Big Data and Service Discovery, in conjunction with APSCC 2014.

- **Program Committee Chair**

- International Workshop on Big Data and Service Discovery (BigData-SD'14), in conjunction with IEEE BigData 2014.
- The 2nd International Workshop on Cloud Service Discovery (CloudSD'14), in conjunction with PAKDD 2014.

- **Program Committee Member**

- CBD'15: The IEEE International Conference on Cloud and Big Data
- ADMA'14: The 10th International Conference on Advanced Data Mining and Applications
- BigData'14: The 3rd International Congress on Big Data, Shenzhen Satellite Session
- APSCC'14: The 8th Asia-Pacific Services Computing Conference
- CloudSD'13: The 1st International Workshop on Cloud Service Discovery, in conjunction with PAKDD'13.
- ADMA'13: The 9th International Conference on Advanced Data Mining and Applications
- "Complex Service Computing": special issue of International Journal of Web Services Research

- **Journal Reviewer**

- IEEE Transactions on System, Man, and Cybernetics, Part A, (TSMC).
- IEEE Transactions on Service Computing, (TSC).
- IEEE Transactions on Industrial Informatics, (TII).
- Journal of Systems and Software, (JSS).
- World Wide Web Journal, (WWWJ).

- IEEE student member, since 2012.
- ACM student member, since 2011.
- CCF student member, since 2011.

## MISCELLANEOUS

- Diligent, perseverant and energetic.
- A good mastery of spoken and written English. Native speaker in Mandarin.
- Love playing football, taking photos, listening to music, body building, etc.