

# Lei, LIU

Homepage: [www.liuleics.com](http://www.liuleics.com) Email: [magicliulei@gmail.com](mailto:magicliulei@gmail.com)

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## EDUCATION

- **Michigan State University (MSU)** Sep 2009 ~ Dec 2013  
Ph.D in Department of Computer Science and Engineering
- **Beijing University of Posts and Telecommunications (BUPT)** Sep 2003~June 2009  
B.S. & M.S in School of Computer Science (*GPA: 3.8/4.0, Ranking: 1/380*)

## PROJECT EXPERIENCE

- **Senior Research Scientist, Hewlett-Packard Laboratories (HP Labs), Palo Alto, CA** March 2016 ~ Present  
- Data driven *Life Science, Healthcare & IOT*  
Invent and develop novel technologies to capture, manage and analyze data from biometrics (wearable data) and chemometrics sensors.
- **Research Scientist, Hewlett-Packard Laboratories (HP Labs), Palo Alto, CA** Jan 2014 ~ Feb 2016  
- Data driven *Education, Life Science, Healthcare & IOT*  
Invent and design new approaches to solve complex problems in data mining technology for business, education, network security and other areas of interest to HP  
Interesting publication generation based on trends and Geolocation
- **Research Assistant, Data Mining Group, Michigan State University** Sep 2009 ~ Dec 2013  
- *Large Scale Network Classification*  
Multi-class classification with number of class is large, large scale graph mining with application to network security.  
- *Network Traffic Intelligence, with Network Security Applications*  
Designing algorithms to detect all things malicious in the Internet including Botnet, Denial of Service Attacks, Email Spam, etc, by using techniques from Data Mining, Machine Learning and Graph Theory.  
- *Social Network Analysis*  
Developing co-classification algorithms for classifying Wikipedia user and article networks simultaneously with utilizing both the content and link information.
- **Research Associate , Hewlett-Packard Laboratories, Palo Alto, CA** May 2013 ~ Aug 2013  
- *Educational Recommendation System*  
Develop software for learning paths generation from online content with utilizing data mining, machine learning and graph theory algorithms.
- **Software Engineering Intern, Narus Inc. (subsidiary of Boeing), Mountain View, CA** May 2012 ~ Aug 2012  
- *CyberFusion Project*  
Develop effective software for malicious ISP clients detection in HTTP traffic by combining graph link structure and flow-level information.
- **Software Engineering Intern, Narus Inc. (subsidiary of Boeing), Mountain View, CA** May 2011 ~ Aug 2011  
- *CyberEagle Project*  
Develop effective statistical based software for malware detection with the methods of Data Mining and Machine Learning.
- **Research Assistant, Key Lab of Intelligent Research, School of Computer, BUPT** Sep 2007 ~ April 2009  
- *Meta-Search Engine*  
Build a system to crawl the information via Google and Baidu search engine, store in database system and do the classification to assign the label for each message, extract the abstract of each web content  
- *Clustering Algorithm Analysis*  
Master Thesis: Adaptive clustering algorithm based on K-Means.
- **Research Assistant, Key Lab of Biomedical Engineering, School of Electronics, BUPT** Sep 2008 ~ June 2009  
- *BioMining System*  
Develop a system to crawl information from PubMed and extract the gene names and relations from the files

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collected, figure out what's the different relation among different genes between patient and healthy people, visualize the results.

- **Visiting Researcher, Institute of Automation, Chinese Academy of Sciences, Beijing, China** Apr 2008 ~ Apr 2009
  - *Query expansion System:*  
Develop a query expansion system based on word physical distance to deep and more comprehensive understand the user query behavior
  - *Dynamic classifier system:*  
Build a dynamic classifier system, which could classify the news parsed from web into multiple classes, by inviting “reject rate”, system precision could above 99%
- **Software Engineer Intern, Yahoo, Beijing, China** June 2007 ~ Dec 2007
  - *Search Query Expansion:*  
Expand the user query words and analyzed user interests based on their visiting history, provided the search results by clusters based on users' feedback

## PUBLICATIONS (\* students under my guidance)

- \* Shuting Wang, **Lei Liu**, Prerequisite Concept Maps Extraction for Automatic Assessment, LILE workshop collocated with the 25<sup>th</sup> International World Wide Web Conference(WWW'2016), Montreal, Canada, April 11 – 15, 2016 (*Best Paper Award*)
- **Lei Liu**, Jerry Liu, Shanchan Wu, Image Discovery and Insertion for Custom Publishing, The ACM Conference on Recommender Systems (RecSys'2015), Vienna, Austria, Sep 16-20, 2015
- **Lei Liu**, Pang-Ning Tan, Xi Liu, *MF-Tree: Matrix Factorization Tree for Large Multi-Class Learning*, **Oral Long Paper, Acceptance rate: 17.9%**, 24<sup>th</sup> ACM International Conference on Information and Knowledge Management (CIKM2015), Oct 19-23, 2015, Melbourne, Australia
- **Lei Liu**, Semantic Topic-based Hybrid Learning Resource Recommendation, 24<sup>th</sup> ACM International Conference on Information and Knowledge Management (CIKM2015), Oct 19-23, 2015, Melbourne, Australia
- **Lei Liu**, Georgia Koutrika, Shanchan Wu, *LearningAssistant: A Novel Learning Resource Recommendation System*, **Acceptance rate: 20%**, [IEEE 31st International Conference on Data Engineering \(ICDE'2015\)](#), April 13<sup>th</sup> - April 17<sup>th</sup>, 2015, Seoul, Korea.
- **Lei Liu**, Georgia Koutrika, Steve Simske, *Generating Reading Orders over Document Collections*, **Acceptance rate: 20%**, [IEEE 31st International Conference on Data Engineering \(ICDE'2015\)](#), April 13<sup>th</sup> - April 17<sup>th</sup>, 2015, Seoul, Korea.
- **Lei Liu**, *Semantic Image Recommendation System for Education*, 2015 IEEE/WIC/ACM International Conference on Web Intelligence (WI'2015), Singapore, Dec 6 – 9, 2015
- Joshua Hailpern, Rares Vernica, Molly Bullock, Udi Chatow, Jian Fan, Georgia Koutrika, Jerry Liu, **Lei Liu**, Steven Simske, Shanchan Wu, To Print or Not to Print: Hybrid Learning with METIS Learning Platform. Regular Long Paper, [ACM SIGCHI Symposium on Engineering Interactive Computing Systems](#), June 23 - June 26, 2015, Duisburg, Germany.
- **Lei Liu**, [Hierarchical Learning for Large Multi-Class Classification in Network Data](#), Ph.D Thesis, Michigan State University, USA. 2015
- **Lei Liu**, Jerry Liu, Shanchan Wu, *Semantic-Aware Illustration Insertion for Custom Publishing*, **Oral presentation paper, Acceptance rate: 40/176 =22.7%**, HP Imaging and Color Symposium (HPICS'2015), Feb 3rd – Feb 6th, 2015, San Diego, CA, USA (**Best Paper Award**)
- **Lei Liu**, Sabyasachi Saha, Ruben Torres, Jianpeng Xu, Pang-Ning Tan, Antonio Nucci, Marco Mellia, *Combining Link and Flow Information for Hidden Malicious Clients Detection in HTTP Flows*, **Regular Long Paper, Acceptance rate: 40/227=17.6%**, [2014 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining \(ASONAM'2014\)](#), August 17 – August 20, 2014, Beijing, China.

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- **Lei Liu**, Georgia Koutrika, Shanchan Wu, LearningAssistant: A Novel Learning Resource Recommendation System ([HPL-2015-15R1](#))
- **Lei Liu**, Sabyasachi Saha, Ruben Torres, Jianpeng Xu; Pang-Ning Tan; Antonio Nucci; Marco Mellia, Detecting Malicious Nodes in ISP Networks Using Connectivity Graph and Flow Information (HPL-2015-29)
- **Lei Liu**, A Novel Sparse Topic Model for Image Recommendation, HP Technical Report, Feb 18th, 2015 (HPL-2015-13)
- **Lei Liu**, Jerry Liu, Shanchan Wu, SmartIllustrator: A Novel Semantic-Aware Illustration Insertion System for Custom Publishing, HP Technical Report, Feb 18th, 2015 (HPL-2015-12)
- **Lei Liu**, Georgia Koutrika, *Recommending Learning Resources with Selected Passage based on Latent Topic in E-Text*, Technical Report [HPL-2014-25](#), Hewlett Packard Company, May 21st, 2014
- **Lei Liu**, Georgia Koutrika, Steve Simske, *Generating Reading Sequences over Document Collections*, Technical Report HPL-2014-5, Hewlett Packard Company, Dec 18th, 2013
- Prakash M. Comar, **Lei Liu**, Sabyasachi Saha, Pang-Ning Tan, Antonio Nucci, [Missing or Inapplicable: Treatment of Incomplete Continuous-valued Features in Supervised Learning](#), **Regular Long Paper, Acceptance rate: 89/348 = 25.5%**, [2013 SIAM International Conference on Data Mining \(SDM2013\)](#), May 2 - May 4, 2013, Austin, Texas, USA.
- Prakash M. Comar, **Lei Liu**, Sabyasachi Saha, Pang-Ning Tan, Antonio Nucci, [Combining Supervised and Unsupervised Learning for Zero-Day Malware Detection](#), **Regular Long Paper, Acceptance rate: 280/1613=17.4%**, [32nd Annual IEEE International Conference on Computer Communications \(INFOCOM 2013\)](#), April 14 - April 19, 2013, Turin, Italy.
- **Lei Liu**, Prakash M. Comar, Sabyasachi Saha, Pang-Ning Tan, Antonio Nucci, [Recursive NMF: Efficient Label Tree Learning for Large Multi-Class Problems](#), **Oral Paper, Acceptance rate: 313/1941=16.1%**, 21st International Conference on Pattern Recognition ([ICPR 2012](#)), November 11-15, 2012, Tsukuba Science City, Japan.
- Prakash M. Comar, **Lei Liu**, Sabyasachi Saha, Antonio Nucci, Pang-Ning Tan, *Weighted Linear Kernel with Tree Transformed Features For Malware Detection*, 21st ACM International Conference on Information and Knowledge Management (CIKM 2012), October 29 - November 2, 2012, Sheraton, Maui Hawaii, USA.
- Prakash M. Comar, **Lei Liu**, Sabyasachi Saha, Pang-Ning Tan, Antonio Nucci, *One-Class SVM with Tree Transformation and Profiling for Zero-Day Malware Detection*, Technical Report, [MSU-CSE-12-4](#).
- **Lei Liu**, Pang-Ning Tan, *A Framework for Co-Classification of Articles and Users in Wikipedia*, Proceeding of 2010 IEEE/WIC/ACM International Joint Conferences on Web Intelligence (WI 2010), Toronto, Canada
- **Lei Liu**, Lei Li, Yixin Zhong, Master thesis, Adaptive clustering algorithm based on K-Means, 2010
- **Lei Liu**, Lei Li, Yixin Zhong, *Using Cluster to Enhance Text Classification*, China-Ireland International Conference on Information and Communications Technologies (CICT'2008), Beijing, China
- **Lei Liu**, Lei Li, Yixin Zhong, *Semantic Clustering Algorithm Analysis Based on User Interests*, First National How Net (bilingual semantic knowledgebase) Conference 2008, Beijing, China
- Ying Sun, Lin Wang, **Lei Liu**, *Integrative Decomposition Procedure and Kappa Statistics Set Up ATF2 ion Binding Module in Malignant Pleural Mesothelioma (MPM)*, [Frontiers of Electrical and Electronic Engineering](#), pp. 381-387 Vol. 3, No. 4. December 2008.

## PATENTS

- **Lei Liu**, Jerry Liu, [Select a Question to Associate with a Passage](#), Application Number: US2014/057150, Filing Date: Sep 24, 2014, Publication Number: WO2016048296 A1, Publication Date: Mar 31, 2016
- **Lei Liu**, Georgia Koutrika, Jerry Liu, Steven J. Simske, [Identifying relevant topics for recommending a resource](#), Application Number: US2014/040566, Filing Date: Jun 2, 2014, Publication Number: WO2015187126 A1, Publication Date: Dec 10, 2015
- **Lei Liu**, Georgia Koutrika, Jerry Liu, [Create a heterogeneous learner group](#), Application Number: US2014/049041, Filing Date: Jul 31, 2014, Publication Number: WO2016018336 A1, Publication Date: Feb 4, 2016

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- **Lei Liu**, Georgia Koutrika, Jerry Liu, [External resource identification](#), Application Number: US2014/053683, Filing Date: Sep 2, 2014, Publication Number: WO2016036345 A1, Publication Date: Mar 10, 2016
- Georgia Koutrika, **Lei Liu**, Jerry Liu, Steven J. Simske, [Recommend content segments based on annotations](#), Application Number: US2014/044839, Filing Date: Jun 30, 2014, Publication Number: WO2016003406 A1, Publication Date: Jan 7, 2016
- Georgia Koutrika, **Lei Liu**, Jerry Liu, Steven J. Simske, [Learning graph](#), Application Number: US2013/078174, Filing Date: Dec 29, 2013, Publication Number: WO2015099810 A1, Publication Date: Jul 2, 2015
- Vipin Kumar, Michael Steinbach, Shyam Boriah, Varun Mithal, Ashish Garg, **Lei Liu**, Pang-Ning Tan, *Algorithms For Forest Cover Change Detection Using Modis Data*, Invention of U.S. National Aeronautics and Space Administration of United States (NASA), **Filed** on July 15<sup>th</sup>, 2013
- Sabyasachi Saha, **Lei Liu**, Ruben Torres, Jianpeng Xu, Antonio Nucci, [Detecting Malicious Endpoints Using Network Connectivity and Flow Information](#), Application Number: US 13/735196, Filing Date: Jan 7, 2013, Publication Number: US 8813236 B1, **Granted** on Aug 19<sup>th</sup>, 2014
- Antonio Nucci, Prakash M. Comar, Sabyasachi Saha, **Lei Liu**, [Class Discovery for Automated Discovery, Attribution, Analysis, and Risk Assessment of Security Threats](#), Application Number: US 13/293986, Filing Date: Nov 10, 2011, Publication Number: US 8418249 B1, **Granted** on April 9<sup>th</sup>, 2013
- Lei has other **21** confidential patent filed with USPTO by HP from December 2013, **18** of which name Lei as the first inventor.

## TALKS

- "Prerequisite Concept Maps Extraction for Automatic Assessment", LILE Workshop collocated with the 25<sup>th</sup> International World Wide Web Conference(WWW'2016), Montreal, Canada, April 11 – 15, 2016 (**Best Paper Award**)
- "MF-Tree: Matrix Factorization Tree for Large Multi-Class Learning", Oral Presentation at [24th ACM International Conference on Information and Knowledge Management](#) (CIKM'2015), Oct 19<sup>th</sup> - Oct 23<sup>rd</sup>, Melbourne, Australia
- "Semantic Topic-based Hybrid Learning Resource Recommendation", Oral Presentation at [24th ACM International Conference on Information and Knowledge Management](#) (CIKM'2015), Oct 19<sup>th</sup> - Oct 23<sup>rd</sup>, Melbourne, Australia
- LearningAssistant: A Novel Learning Resource Recommendation System, Oral Presentation and System Demo at 31<sup>st</sup> IEEE International Conference on Data Engineering (ICDE'2015), April 13<sup>th</sup> - April 17<sup>th</sup>, 2015 Seoul, Korea
- Generating Reading Orders over Document Collections, Oral Presentation and Demo at 31<sup>st</sup> IEEE International Conference on Data Engineering (ICDE'2015), April 13<sup>th</sup> - April 17<sup>th</sup>, 2015, Seoul, Korea
- Semantic-Aware Illustration Insertion for Custom Publishing, *HP Imaging and Color Symposium (HPICS'2015)*, Feb 3<sup>rd</sup> – Feb 6<sup>th</sup>, 2015 San Diego, CA
- Combining Link and Flow Information for Hidden Malicious Clients Detection in HTTP Flows *International Conference on Advances in Social Networks Analysis and Mining (ASONAM'2014)* Beijing, China
- Represent Hewlett Packard Company to participant the Meeting and exploring the values of Grantees supported by Hewlett Foundation  
*Hewlett OER Grantees Meeting 2014, 04/2014* Sausalito, CA
- Generating Reading Sequences over Document Collection  
*Hewlett Packard Laboratories Poster and Demo Fair, 04/2014* Palo Alto, CA
- Generating Interesting Publications based on Trends and Geolocation  
*Hewlett Packard Laboratories Poster and Demo Fair, 04/2014* Palo Alto, CA
- Generating Reading Sequences over Document Collection  
*Tech Con'14, Hewlett Packard Company, 03/2014* Miami, FL
- Recursive NMF: Efficient Label Tree Learning for Large Multi-Class Problems  
*International Year of Statistics, statistics in Applications Forum, 10/2013* East Lansing, MI
- Generating Learning Paths From Online Content  
*Invited talks at Hewlett Packard Laboratories (HP Labs). 08/2013* Palo Alto, CA

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- A Novel Algorithm for Online Content Organization  
*Poster Fair and Intern Talks at Hewlett Packard Laboratories (HP Labs), 07/2013* Palo Alto, CA
- Missing or Inapplicable: Treatment of Incomplete Continuous-valued Features in Supervised Learning  
*SIAM International Conference on Data Mining (SDM), 05/2013* Austin, TX
- Combining Supervised and Unsupervised Learning for Zero-Day Malware Detection  
*32<sup>nd</sup> International Conference on Computer Communications (INFOCOM), 04/2013* Turin, Italy
- Recursive NMF: Efficient Label Tree Learning for Large Multi-Class Problems  
*21<sup>st</sup> International Conference on Pattern Recognition (ICPR), 11/ 2012* Tsukuba Science City, Japan
- Detecting Malicious ISP Clients Using HTTP Connectivity and Flow Information  
*Poster presentation at Graduate Research Symposium, 11/2012* East Lansing, MI
- RNMF: A Novel Algorithm to Solve Large Multi-Class Problems  
*Poster presentation at Graduate Research Symposium, 11/2012* East Lansing, MI
- Weighted Linear Kernel with tree transformed features for malware detection  
*21st ACM International Conference on Information & Knowledge Management (CIKM), 10/2012* Maui, Hawaii
- Detecting Malicious Nodes Using Network Connectivity Graph  
*Technical talk series of Narus, Inc. (a wholly owned subsidiary of The Boeing Company), 08/2012* Sunnyvale, CA
- Learning to predict a Million Classes  
*Poster presentation at Graduate Research Symposium, 11/2011* East Lansing, MI
- CyberEagle: Automated Discovery, Attribution, Analysis and Risk Assessment of Information Security Threats  
*R&D Conference of Narus, Inc. (a wholly owned subsidiary of The Boeing Company), 08/2011* Sunnyvale, CA
- A Framework for Co-Classification of Articles and Users in Wikipedia  
*IEEE/WIC/ACM International Conferences on Web Intelligence (WI), 08/2010* Toronto, Canada
- Using Cluster to Enhance Text Classification  
*China-Ireland International Conference on Information & Communications Technologies (CICT), 09/2008*  
Beijing, China
- Semantic Clustering Algorithm Analysis Based on User Interests  
*National Bilingual Semantic Knowledgebase Conference, 05/2008* Beijing, China

## AWARDS AND HONORS

- **Best Paper Award** of LILE in International World Wide Web Conference (WWW'2016) , April 11 – 15, 2016  
Montreal, Canada
- **Best Paper Award** at *Hewlett Packard Imaging and Color Symposium (HPICS'2015)*, (*The only best paper selected from 176 candidates*), Feb 3rd – Feb 6th, 2015, San Diego, CA
- **Best Poster Award** at the Statistics in Applications Forum, International Year of Statistics 2013, East Lansing, MI
- **Best Paper Award** at the second Annual Engineering Graduate Research Symposium, Nov 2012, East Lansing, MI  
(to recognize excellent research contribution and potential impact)
- Doctoral Dissertation Fellowship, *Awarded by MSU 2013*, East Lansing, MI
- Graduate School Fellowship, *Awarded by MSU, East Lansing, MI 2013*
- Dean Fellowship from College of Engineering, *Awarded by MSU 2010*
- Samsung Scholarship, *Awarded by Samsung ( to students ranked No. 1 in school of computer science) 2008*
- Excellent graduate student, *Awarded by Beijing Municipal Government, China 2007*
- Student Leadership & Service Award, *Awarded by Beijing University of Posts & Telecommunications, 2007*
- University Scholarship, *Awarded by Beijing University of Posts & Telecommunications, 2004, 2005, 2006*

## PROFESSIONAL ACTIVITIES

- **Chair**
  1. Workshop on Mining Wearable Data for HealthCare, in conjunction with the IEEE International

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Conference on Healthcare Informatics (ICHI'2016) in Chicago, Illinois, USA. Oct 4 – 7, 2016

- **Session Chair**

1. The 2015 IEEE/WIC/ACM International Conference on Web Intelligence (WI'2015), Singapore, Dec 6-9, 2015

- **Program Committee**

1. The 25th International World Wide Web Conference ([WWW'2016](#)), Montreal, Canada, April 11-15, 2016
2. The 25th ACM International Conference on Information and Knowledge Management ([CIKM'2016](#)), Indianapolis, USA, October 24-28, 2016
3. The 24th ACM International Conference on Information and Knowledge Management ([CIKM'2015](#)), Melbourne, Australia, October 19-23, 2015
4. European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases ([ECML PKDD' 2015](#)), Porto, Portugal, September 4 - 11, 2015
5. The 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM'2016), Davis, USA, Aug 18-21, 2016
6. The 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining ([ASONAM'2015](#)), Paris, France, Aug 25-28, 2015
7. The 2016 IEEE/WIC/ACM International Conference on Web Intelligence ([WI'2016](#)), Omaha, NE, USA, Oct 13-16, 2016
8. The 2015 IEEE/WIC/ACM International Conference on Web Intelligence ([WI'2015](#)), Singapore, Dec 6 – 9, 2015
9. The 16th ACM SIGWEB International Symposium on Document Engineering ([DocEng'2016](#)), Vienna, Austria, Sep. 13-16, 2016
10. The 15th ACM SIGWEB International Symposium on Document Engineering (DocEng'2015), Lausanne, Switzerland, Sep. 8-11, 2015
11. The 17th IEEE International Conference on Information Reuse and Integration ([IRI'2016](#)), Pittsburgh, PA, July 28-30, 2016
12. The 16th IEEE International Conference on Information Reuse and Integration (IRI'2015), San Francisco, CA, Aug 13-15, 2015
13. The 13th IEEE International Conference on Ubiquitous Intelligence and Computing ([UIC'2016](#)), Toulouse, France, July 18-21, 2016
14. The 12th IEEE International Conference on Ubiquitous Intelligence and Computing (UIC'2015), Beijing, China, Aug 10-14, 2015
15. The 2015 Smart World Congress(SWC'2015), Top10Cs Technical Committee, Beijing, China, Aug 10-14, 2015
16. The 5th International Conference on Intelligent Systems and Applications (INTELLI'2016), Barcelona, Spain, Nov 13-17, 2016
17. The 9th IEEE International Conference on Open Source Systems and Technologies (ICOSST'2015), Lahore, Pakistan, Dec. 17-19, 2015
18. The 8th IEEE International Conference on Open Source Systems and Technologies (ICOSST'2014), Lahore, Pakistan, Dec. 18-20, 2014

- **Editorial Board**

1. [Journal of Computer and Information Science](#), Canadian Center of Science and Education
2. IEEE Computer Society Technical Committee on Data Engineering

- **Journal Reviewer**

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1. IEEE Transactions on Knowledge and Data Engineering (TKDE)
2. ACM Transaction on Intelligent Systems and Technology (TIST)
3. World Wide Web Journal (WWWJ), Springer
4. Journal of Neurocomputing, Elsevier
5. Journal of Education and Information Technologies, Springer
6. Journal of Knowledge and Information System, Springer

- **Conference Reviewer**

1. The 25 International World Wide Web Conference ([WWW'2016](#)), **(for all three tracks: Web Mining; Web Search Systems and Applications; Content Analysis)**
2. The 21st International World Wide Web Conference (WWW 2010)
3. The 25th ACM International Conference on Information and Knowledge Management ([CIKM'2016](#))
4. The 24th ACM International Conference on Information and Knowledge Management ([CIKM'2015](#)), **(for both Database & Knowledge Management Tracks)**
5. The 23rd ACM International Conference on Information and Knowledge Management (CIKM 2014)
6. European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases ([ECML PKDD' 2015](#), ECML PKDD' 2013, ECML PKDD' 2012, ECML PKDD'2011, ECML PKDD' 2010)European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Database (ECML-PKDD 2010,2011,2012)
7. European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Database (ECML-PKDD 2010,2011The 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining ([ASONAM'2015](#))
8. The 2013 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM'2013)
9. The 2012 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM'2012)
10. The 2011 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM'2011)
11. The 2010 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining ([ASONAM'2010](#))
12. The 2015 IEEE/WIC/ACM International Conference on Web Intelligence ([WI'2015](#))
13. The 2013 IEEE/WIC/ACM International Conference on Web Intelligence (WI'2013)
14. The 15th ACM SIGWEB International Symposium on Document Engineering ([DocEng'2015](#)), Lausanne, Switzerland, Sep. 8-11, 2015
15. The 16th IEEE International Conference on Information Reuse and Integration ([IRI'2015](#)), San Francisco, CA, Aug 13-15, 2015
16. The 12th IEEE International Conference on Ubiquitous Intelligence and Computing ([UIC'2015](#)), Beijing, China, Aug 10-14, 2015
17. The 20th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (SIGKDD 2012)
18. The 19th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (SIGKDD 2011)
19. The IEEE International Conference on Data Mining (ICDM 2013)
20. The IEEE International Conference on Data Mining (ICDM 2012)
21. The IEEE International Conference on Data Mining (ICDM 2011)
22. [The IEEE International Conference on Data Mining](#) (ICDM 2010)
23. SIAM International Conference on Data Mining (SDM 2010)
24. HP Imaging and Color Symposium (HPICS 2015)

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25. The Eighth IEEE International Conference on Semantic Computing (ICSC 2014)

- **Professional Membership**

Institute of Electrical and Electronics Engineers (**IEEE**)

Association for Computing Machinery (**ACM**)

Association for the Advancement of Artificial Intelligence (**AAAI**)

- **Other Services**

1. *Vice President* of Toastmasters International (Club 4515), a nonprofit educational organization that operates clubs worldwide for helping members improve communication, speaking, and leadership skills  
2015
2. *Judge Trainer* of HP CodeWars'16, a world-wide first-class computer programming competition for high school students 2016
3. *Judge* of HP CodeWars'15, a world-wide first-class computer programming competition for high school students 2015
4. *Volunteer*, deliver classroom code programming training services to Oak Grove High School in San Jose. ,  
2015

## SKILLS

- Proficient in Java (6Yrs), Mat Lab (4Yrs), C++ (4Yrs), Perl (4Yrs)
- Proficient in Data mining & Information retrieval software packages: Weka, Lemur, SVM light, etc
- Experienced in programming on Windows & Linux environments
- Experienced in oracle, MySql, SQL server database