

Shou-De Lin

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https://scholar.google.com/citations?user=_82xf3QAAAAJ&hl=en

RESEARCH INTERESTS:

- AI, Machine Learning, Knowledge Discovery and Data Mining, Natural Language Processing

EDUCATION:

- 2002 – 2006 Ph.D. in Computer Science, University of Southern California
- 2004 – 2006 M.S. in Computational Linguistics, University of Southern California
- 1999 – 2001 M.S. in Electrical Engineering, University of Michigan, Ann Arbor
- 1992 – 1996 B.S. in Electrical Engineering, National Taiwan University

AWARDS

- ACM Distinguished Member (2022)
- Y. Z. Hsu Scientific Paper Award in the field of AI (2021)
- IoT Innovative Application Award from Pan Wen Yuan Foundation (2019)
- Google Research Award (2008)
- Microsoft Research Grant Award (2008, 2015, 2016, 2019)
- Leading or co-Leading the NTU team to win ACM KDD Cup Champion 6 times (2008~2013)
- ASONAM Best Paper Award (2011)
- 5-time US Airforce AOARD Grant Award (2011~2016)
- The Young Scholars' Creativity Award, Foundation For The Advancement of Outstanding Scholarship (2014)
- Ta-You Wu Memorial Award (2015)
- Leading NTU team to win WSDM Cup Champion (2016)

EXPERIENCES

- 2015-now Professor in CSIE department, National Taiwan University
- 2019-now co-Founder and advisor for OmniEyes
- 2020-2024 Chief Machine Learning Scientist in Appier
- 2015-2016 Visiting Scholar in Microsoft Research
- 2011-2015 Associate Professor in CSIE department, National Taiwan University
- 2007-2011 Assistant Professor in CSIE department, National Taiwan University
- 2005-2007 Research Assistant & Postdoc Researcher in Los Alamos National Lab

TUTORIAL AND PANEL SPEAKER

- Lecturer in Machine Learning Summer School 2021
- Keynote Speaker for BESC 2018
- Keynote speaker for AIT 2018

- KDD Cup 2015 Panel
- “Sampling and Summarization for Social Networks” PAKDD 2013, SDM 2013
- “Panel on Big Data Forum” Academic Sinica, 2013
- “Big Data and Social Computing” TAAI 2013
- “Practical Issues for Machine Learning and Data Mining” NCTU BIG Data school 2012
- “Panel on Big Data Management and Analysis” NTU-INTEL joint workshop, 2012
- “Mining Heterogeneous Social Network”, Tutorial in PAKDD 2009

MAJOR SERVICES

- 2025 PC co-Chair, ACML25
- 2024 Journal-track co-chair ACML24
- 2021-now Deputy Director of NTU AI Center
- 2020~now Associated Editor for Frontier in Big Data
- 2012~now Associated Editor for Journal of Information Science and Engineering
- 2012~now Associated Editor for International Journal of Computational Linguistics and Chinese Language Processing
- 2015~now Associated Editor International Journal of Web Intelligence
- 2014~2020 Associated Editor for social network analysis and mining
- 2018 WSDM Cup co-Chair 2018
- 2017-2019 Founding Director of MOE AI Talent Incubation Office
- 2017 General co-Chair of TAAI 2017
- 2016-2020 Sub-section Director of computing center in NTU
- 2016 KDD Cup co-Chair for KDD 2016
- 2015 PC co-Chair for ASE SocialInformations 2015
- 2015 Area co-Chair for ACL 2015
- 2015 Publication co-Chair for ACM SIGKDD
- 2014 Senior TPC in ACM SIGKDD
- 2013-2014 AFNLP SIG SocialNLP Founder and President
- 2013 PC co-Chair for Technology and Application for AI conference 2013
- 2012 Video/Demo Co-Chairs for ACM SIGKDD
- 2011~2018 Associated Editor for Social Network Analysis and Mining Journal
- 2009-2011 Secretary General for TAAI

Courses Offered

- Probability
- Probabilistic Graphical Model
- Data Mining and Machine Learning: Theory and Practice
- Social Network Analysis
- Technical Writing and Research Methods
- Statistic Methods for Intelligent Information Processing (SAI)
- Machine Discovery

Publication List

Journal Papers

1. Chu-Chen Li, Cheng-Te Li, Shou-De Lin "Learning Privacy-Preserving Embeddings for Image Data to Be Published" ACM Transactions on Intelligent Systems and Technology, 2023
2. Keng-Te Liao, Bo-Wei Huang, Chih-Chun Yang, Shou-De Lin (2022, Dec) Bayesian mixture variational autoencoders for multi-modal learning, Machine Learning
3. Chih-Te Lai, Cheng-Te Li, Shou-De Lin (2021, Feb). Deep Energy Factorization Model for Demographic Prediction ACM Transactions on Intelligent Systems and Technology, 8:1-8:16.
4. Shu-Kai Zhang, Cheng-Te Li, Shou-De Lin (2020, Jul). A joint optimization framework for better community detection based on link prediction in social networks Knowledge and Information Systems, 4277-4296.
5. Wen-Hao Chen, Chin-Chi Hsu, Yi-An Lai, Vincent Liu, Mi-Yen Yeh, Shou-De Lin (2019, Dec). Attribute-Aware Recommender System Based on Collaborative Filtering: Survey and Classification. Frontiers in Big Data, 49.
6. Jia-Yun Jiang, Cheng-Te Li, Shou-De Lin (2019, May). Towards a more reliable privacy-preserving recommender system. Information Sciences, 248-265.
7. Yi-An Lai, Chin-Chi Hsu, Wen-Hao Chen, Mi-Yen Yeh, Shou-De Lin (2019, Jan). DeepRank: improving unsupervised node ranking via link discovery Data Mining and Knowledge Discovery , 474-498.
8. Chin-chi Hsu, Mi-Yen Yeh and Shou-De Lin (2018, Mar). "A General Framework for Implicit and Explicit Social Recommendation. IEEE Transactions on Knowledge & Data Engineering.
9. Cheng-Te Li and Shou-De Lin (2017, Nov). Social Flocks: Simulating Crowds to Discover the Connection between Spatial-Temporal Movements of People and Social Structure. IEEE Transactions on Computational Social Systems .
10. Cheng-Te Li, Man-Kwan Shan, and Shou-De Lin. "On Team Formation with Expertise Query in Collaborative Social Networks." Knowledge and Information Systems Journal. 2015 Volume 42, Issue 2, Pages: 441-463
11. Chun-Liang Li, Yu-Chuan Su, Ting-Wei Lin, Cheng-Hao Tsai, Wei-Cheng Chang, Kuan-Hao Huang, Tzu-Ming Kuo, Shan-Wei Lin, Young-San Lin, Yu-Chen Lu, Chun-Pai Yang, Cheng-Xia Chang, Wei-Sheng Chin, Yu-Chin Juan, Hsiao-Yu Tung, Jui-Pin Wang, Cheng-Kuang Wei, Felix Wu, Tu-Chun Yin, Tong Yu, Yong Zhuang, Shou-de Lin, Hsuan-Tien Lin, Chih-Jen Lin. "Combination of Feature Engineering and Ranking Models for Paper-Author Identification in KDD Cup 2013" Accepted by Journal of Machine Learning Research, 2015
12. Hsun-Ping Hsieh, Cheng-Te Li, and Shou-De Lin. "Measuring and Recommending Time-Sensitive Routes from Location-based Data." ACM Transactions on Intelligent Systems and Technology. Vol.5, No.3, Article 45, Pages: 45-1~45-27. June. 2014.
13. Wei-Sheng Chin, Yong Zhuang, Yu-Chin Juan, Felix Wu, Hsiao-Yu Tung, Tong Yu, Jui-Pin Wang, Cheng-Xia Chang, Chun-Pai Yang, Wei-Cheng Chang, Kuan-Hao Huang, Tzu-Ming Kuo, Shan-Wei Lin, Young-San Lin, Yu-Chen Lu, Yu-Chuan Su, Cheng-Kuang Wei, Tu-Chun Yin, Chun-Liang Li, Ting-Wei Lin, Cheng-Hao Tsai, Shou-De Lin, Hsuan-Tien Lin, Chih-Jen Lin. "Effective string processing and matching for author disambiguation." Journal of Machine Learning Research 15. Issue 1, Pages: 3037-3064. October. 2014
14. Hung-Yi Lo, Shou-De Lin, and Hsin-Min Wang. "Generalized k-Labelsets Ensemble for Multi-Label and Cost-Sensitive Classification." IEEE Transactions on Knowledge and Data Engineering. Vol. 26, No. 7, 2014. Pages: 1679 - 1691.
15. Jing-Kai Lou, Fu-Min Wang, Chin-Hua Tsai, San-Chuan Hung, Perng-Hwa Kung, Shou-De Lin, Kuan-Ta Chen, and Chin-Laung Lei. "A Social Diffusion Model with an Application on Election Simulation" The Scientific World Journal. vol. 2014, Article ID 180590, 14 pages, 2014. doi:10.1155/2014/180590.
16. Cheng-Te Li, Hsun-Ping Hsieh, Tsung-Ting Kuo, Shou-De Lin. "Opinion Diffusion and Analysis on Social Networks." Encyclopedia of Social Network Analysis and Mining 2014. Pages: 1212-1218. 2014.
17. Yu-Chih Chen, Yu-Shi Lin, Yu-Chun Shen, Shou-De Lin. "A Modified Random Walk Framework for

- Handling Negative Ratings and Generating Explanations.” ACM Transactions on Intelligent Systems and Technology. Volume 4 No. 1, January 2013. Article No. 12, pages:12-1~12-21. 2013.
18. Yi-Chen Lo, Jhao-Yin Li, Mi-Yen Yeh, Shou-De Lin, Jian Pei. “What Distinguish One from Its Peers in Social Networks?” Data Mining and Knowledge Discovery. November 2013, Volume 27, Issue 3, Pages: 396-420. 2013.
 19. Yi-Chen Lo, Hung-Che Lai, Cheng-Te Li, and Shou-De Lin. “Mining and Generating Large-Scaled Social Networks via MapReduce.” Social Network Analysis and Mining. December 2013, Volume 3, Issue 4, Pages: 1449-1469. 2013.
 20. Cheng-Te Li, Tsung-Ting Kuo, Chien-Tung Ho, San-Chuan Hong, Wei-Shih Lin, and Shou-De Lin. “Modeling and Evaluating Information Propagation in a Microblogging Social Network.” Social Network Analysis and Mining. Volume 3, Issue 3, Pages: 341-357. 2013.
 21. Wan-Chen Lin, Tsung-Ting Kuo, Tung-Jia Chang, Chueh-An Yen, Chao-Ju Chen and Shou-de Lin. “Exploiting Machine Learning Models for Chinese Legal Documents Labeling, Case Classification, and Sentencing Prediction.” International Journal of Computational Linguistics & Chinese Language Processing, Volume 17, Number 4, pages:49-68, December 2012.
 22. Yi-Kuang Ko, Jing-Kai Lou, Cheng-Te Li, Shou-de Lin, and Shyh-Kang Jeng. “A Social Network Evolution Model Based on Seniority.” Social Network Analysis and Mining Journal. June 2012, Volume 2, Issue 2, Pages: 107-119. Online date: 2011/8.
 23. Hung-Yi Lo, Ju-Chiang Wang, Hsin-Min Wang, and Shou-De Lin. “Cost-sensitive Multi-label Learning for Audio Tag Annotation and Retrieval”, IEEE Transaction on Multimedia, 18(3), pp. 518-529, June 2011.
 24. Tsung-Ting Kuo, and Shou-De Lin. “Learning-Based Concept-Hierarchy Refinement through Exploiting Topology, Content and Social Information”, Information Sciences, 2011.
 25. Anta Huang, Tsung-Ting Kuo, Ying-Chun Lai, Shou-De Lin. “Discovering Correction Rules for Auto Editing”, IJCLCLP, 2010.
 26. Shou-de Lin and Hans Chalupsky. “Discovering and Explaining Abnormal Nodes in Semantic Graphs.” IEEE Transactions on Knowledge and Data Engineering TKDE, Vol.20, No.8, 2008.
 27. Hung-Yi Lo, Chun-Min Chang, Tsung-Hsien Chiang, Cho-Yi Hsiao, Anta Huang, Tsung-Ting Kuo, Wei-Chi Lai, Ming-Han Yang, Jung-Jung Yeh, Chun-Chao Yen, Shou-De Lin, “Learning to Improve Area-Under-FROC for Imbalanced Medical Data Classification Using an Ensemble Method” invited paper for ACM SIGKDD Explorations Vol10, Issue 2, 2008.
 28. Shou-de Lin and Kevin Knight. "Discovering the linear writing order of a two-dimensional ancient hieroglyphic script", in Artificial Intelligence v.170/4-5, Elsevier, 2006. One of the Top 25 hottest papers in Artificial Intelligence in 2006.
 29. Shou-de Lin and Craig Knoblock. "SERGEANT: A Framework for Building More Flexible Web Agents by Exploiting a Search Engine", in Journal of Web Intelligence and Agent Systems, v3(1), 2005.
 30. Shou-de Lin and Hans Chalupsky. "Using Unsupervised Link Discovery Methods to Find Interesting Facts and Connections in a Bibliography Dataset", selected to be the 2nd place for the open task in ACM KDDCup 2003, in KDD Explorations V5 Issue 2.
 31. Michael P. Wellman, Peter R. Wurman, Kevin O'Malley, Roshan Bangera, Shou-de Lin, Daniel Reeves, and William E. Walsh. "Designing the Market Game for a Trading Agent Competition". IEEE Internet Computing, 2001.

Conference Papers

1. Yun-Da Tsai; Cayon Liow; Yin Sheng Siang; Shou-De Lin “Toward More Generalized Malicious URL Detection Models” AAAI 2024
2. Tzu-Hsien Tsai, Yun-Da Tsai, Shou-De Lin “lil’HDoC: An Algorithm for Good Arm Identification under Small Threshold Gap” in PAKDD 2024
3. Cayon Liow, Cheng-Te Li, Chun-Pai Yang, Shou-De Lin “Pseudo Triplet Networks for Classification Tasks with Cross-Source Feature Incompleteness” ACM CIKM 2023
4. Karandeep Singh, Yu-Che Tsai, Cheng-Te Li, Meeyoung Cha, Shou-De Lin “GraphFC: Customs Fraud Detection with Label Scarcity” CIKM 2023
5. Yen-Ching Tseng, Zu-Mu Chen, Mi-Yen Yeh, Shou-De Lin “UPGAT: Uncertainty-Aware Pseudo-neighbor

Augmented Knowledge Graph Attention Network” PAKDD 2023

6. Bo-Wei Huang, Keng-Te Liao, Chang-Sheng Kao, Shou-De Lin (2022, Dec) Environment Diversification with Multi-head Neural Network for Invariant Learning, NeurIPS 2022
7. Yun-Da Tsai, CK Chen, SD Lin (2021, Oct). Toward an Effective Black-Box Adversarial Attack on Functional JavaScript Malware against Commercial Anti-Virus. ACM CIKM 2022
8. Keng-Te Liao, Cheng-Syuan Lee, Zhong-Yu Huang, Shou-de Lin (2020, Dec). Explaining Word Embeddings via Disentangled Representation ACL/IJCNLP 2020.
9. Keng-Te Liao, Zhihong Shen, Chiyuan Huang, Chieh-Han Wu, Po-Chun Chen, Kuansan Wang, Shou-de Lin (2020, Dec). Explainable and Sparse Representations of Academic Articles for Knowledge Exploration Proceedings of the 28th International Conference on Computational Linguistics, .
10. Chin-Hui Chen, Yi-Fu Fu, Hsiao-Hua Cheng, Shou-De Lin (2020, Oct). Unseen Filler Generalization In Attention-based Natural Language Reasoning Models IEEE Second International Conference on Cognitive Machine Intelligence . .
11. Yu-Sheng Chou, Chien-Yao Wang, Shou-De Lin, Hong-Yuan Mark Liao: (2020, Oct). How Incompletely Segmented Information Affects Multi-Object Tracking and Segmentation (MOTS). ICIIP 2020, .
12. Hong-You Chen, Sz-Han Yu, Shou-de Lin (2020, Jun). Glyph2Vec: Learning Chinese Out-of-Vocabulary Word Embedding from Glyphs Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics, .
13. Sakura Yamaki, Shou-de Lin, Wataru Kameyama (2019, Dec). Detection of Anomaly State Caused by Unexpected Accident using Data of Smart Card for Public Transportation 2019 IEEE International Conference on Big Data (Big Data), Los Angeles, CA, USA
14. Chih-Te Lai, Yi-Te Hong, Hong-You Chen, Chi-Jen Lu, Shou-De Lin (2019, Nov). Multiple Text Style Transfer by using Word-level Conditional Generative Adversarial Network with Two-Phase Training. . Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP), Hong Kong, China.
15. Liang-Hsin Shen, Pei-Lun Tai, Chao-Chung Wu, Shou-De Lin (2019, Nov). Controlling Sequence-to-Sequence Models - A Demonstration on Neural-based Acrostic Generator Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP): System Demonstrations, Hong Kong, China.
16. Fan-Yun Sun, Yen-Yu Chang, Yueh-Hua Wu, Shou-De Lin (2019, Oct). A Regulation Enforcement Solution for Multi-agent Reinforcement Learning. . AAMAS '19: Proceedings of the 18th International Conference on Autonomous Agents and MultiAgent Systems, Montreal , Canada.
17. Yu-Sheng Chou, Chien-Yao Wang, Ming-Chiao Chen, Shou-De Lin, Hong-Yuan Mark Liao: (2019, Sep). Dynamic Gallery for Real-Time Multi-Target Multi-Camera Tracking IEEE, Los Angeles, CA, USA. .
18. Hong-You Chen, Chin-Hua Hu, Leila Wehbe, Shou-De Lin (2019, Jun). Self-Discriminative Learning for Unsupervised Document Embedding Proceedings of the 2019 Conference of the North American Chapter of the Association for Computational Linguistics, Minneapolis, Minnesota.
19. Szu-Wei Fu, Chien-Feng Liao, Yu Tsao, Shou-De Lin (2019, May). MetricGAN: Generative Adversarial Networks based Black-box Metric Scores Optimization for Speech Enhancement Thirty-sixth International Conference on Machine Learning (ICML) 2019, Long Beach, CA
20. Fan-Yun Sun, Yen-Yu Chang, Yueh-Hua Wu, Shou-De Lin (2019, May). A Regulation Enforcement Solution for Multi-agent Reinforcement Learning. . AAMAS '19: International Conference on Autonomous Agents and Multiagent Systems, Montreal , Canada.
21. Szu-Wei Fu, Chien-Feng Liao, Yu Tsao, Shou-De Lin (2019, May). MetricGAN: Generative Adversarial Networks based Black-box Metric Scores Optimization for Speech Enhancement Thirty-sixth International Conference on Machine Learning (ICML) 2019, Long Beach, CA
22. Jun-Kun Wang, Chi-Jen Lu, Shou-De Lin (2019, Mar). Online Linear Optimization with Sparsity Constraints 30th International Conference on Algorithmic Learning Theory, Chicago, USA.
23. Fang-Yi Chang, Chun Chen, Shou-De Lin (2018, Dec). An Empirical Study of Ladder Network and Multitask Learning on Energy Disaggregation in Taiwan 2018 Conference on Technologies and Applications of Artificial Intelligence (TAAI), Taichung, Taiwan.
24. Ian En-Hsu Yen, Wei-Cheng Lee, Kai Zhong, Sung-En Chang, Pradeep Ravikumar, Shou-De Lin (2018,

- Dec). MixLasso: Generalized Mixed Regression via Convex Atomic-Norm Regularization NeurIPS 2018, Montreal, CA.
25. Hong-You Chen, Cheng-Syuan Lee, Keng-Te Liao, Shou-de Lin (2018, Nov). Word Relation Autoencoder for Unseen Hypernym Extraction Using Word Embeddings EMNLP 2018, Brussels, Belgium
 26. Cheng-Te Li, Hsun-Ping Hsieh, Tsung-Ting Kuo, Shou-De Lin (2018, Jun). Opinion Diffusion and Analysis on Social Networks. Encyclopedia of Social Network Analysis and Mining 2018. .
 27. Yu-Sheng Chou, Pai-Heng Hsiao, Shou-De Lin, Hong-Yuan Mark Liao (2018, Apr). How Sampling Rate Affects Cross-Domain Transfer Learning for Video Description ICASSP 2018, Calgary, AB, Canada
 28. Cheng-Te Li, Shou-De Lin (2018, Mar). Social Flocks: Simulating Crowds to Discover the Connection Between Spatial-Temporal Movements of People and Social Structure IEEE , Monterey, CA.
 29. Fan-Yun Sun, Yen-Yu Chang, Yueh-Hua Wu, Shou-De Lin (2018, Feb). Designing Non-greedy Reinforcement Learning Agents with Diminishing Reward Shaping. . AIES 2018, New Orleans, USA
 30. Yian Chen, Xing Xie, Shou-De Lin, Arden Chiu (2018, Feb). WSDM Cup 2018: Music Recommendation and Churn Prediction. WSDM Cup 2018:, Los Angeles, California, USA.
 31. Chin-Chi Hsu, Mi-Yen Yeh, Shou-De Lin (2018, Feb). A General Framework for Implicit and Explicit Social Recommendation IEEE Transactions on Knowledge and Data Engineering, Monterey, CA.
 32. Yueh-Hua Wu, Shou-De Lin (2018, Feb). A Low-Cost Ethics Shaping Approach for Designing Reinforcement Learning Agents. AAAI 2018. .
 33. Yi-An Lai, Chin-Chi Hsu, Wen Hao Chen, Mi-Yen Yeh, Shou-De Lin (2017, Dec). Prune: Preserving proximity and global ranking for network embedding. NIPS 2017. .
 34. Ian En-Hsu Yen, Wei-Cheng Lee, Sung-En Chang, Arun Sai Suggala, Shou-De Lin, Pradeep Ravikumar (2017, Aug). Latent Feature Lasso. ICML 2017, Sydney, Australia.
 35. Hao-En Sung, Cheng-Kuan Chen, Han Xiao, Shou-De Lin (2017, May). A Classification Model for Diverse and Noisy Labelers. . PAKDD2017, Jeju, South Korea.
 36. Chin-Chi Hsu, Yi-An Lai, Wen-Hao Chen, Ming-Han Feng, Shou-De Lin (2017, Feb). Unsupervised Ranking using Graph Structures and Node Attributes. WSDM2017. .
 37. Jun-Kun Wang, Chi-Jen Lu, Shou-De Lin (2017, Feb). Fast Algorithm for Logistic Bandit. AAAI 2017, San Francisco, California USA.
 38. Chi-Ruei Li, Addicam Sanjay, Shao-Wen Yang, Shou-De Lin (2016, Nov). Transfer learning for sequential recommendation model TAAI 2016, Hsinchu, TW.
 39. Yu-Yang Huang, Shou-De Lin (2016, Nov). Transferring User Interests Across Websites with Unstructured Text for Cold-Start Recommendation EMNLP2016, Austin, Texas, USA.
 40. Jun-Kun Wang, Shou-De Lin (2016, Oct). Parallel Least-Squares Policy Iteration. . DSAA2016, Montreal, Canada .
 41. Jun-Kun Wang, Shou-De Lin (2016, Oct). Efficient Sampling-Based ADMM for Distributed Data. . DSAA2016, Montreal, Canada .
 42. Chia-Hsin Ting, Hung-Yi Lo, Shou-De Lin (2016, Apr). Transfer-Learning Based Model for Reciprocal Recommendation PAKDD 2016, Auckland, New Zealand.
 43. Ming-Han Feng, Kuan-Hou Chan, Huan-Yuan Chen, Ming-Feng Tsai, Mi-Yen Yeh, Shou-De Lin (2016, Feb). An Efficient Solution to Reinforce Paper Ranking using Author/Venue/Citation Information – The Winner’s Solution for WSDM Cup 2016. ACM WSDM Cup Workshop 2016, San Francisco, USA.
 44. Ian E.H.Yen, Shan-Wei Lin, Shou-De Lin (2015, Dec). A Dual-Augmented Block Minimization Framework for Learning with Limited Memory. NIPS 2015, Montreal, Canada.
 45. Guang-He Lee, Shou-De Lin (2015, Nov). LambdaMF: Learning Nonsmooth Ranking Functions in Matrix Factorization Using Lambda. ICDM 2015, Atlantic City, USA.
 46. Chin-Chi Hsu, Perng-Hwa Kung, Mi-Yen Yeh, Shou-De Lin, Phillip B.Gibbons (2015, Oct). Bandwidth-Efficient Distributed k-Nearest-Neighbor Search with Dynamic Time Warping. IEEE International Conference on Big Data 2015, Santa Clara, USA.
 47. Chung-Yi Li, Wei-Lun Su, Todd G. McKenzie, Fu-Chun Hsu, Shou-De Lin, Phillip B. Gibbons, Jane Yung-jen Hsu (2015, Oct). Recommending Missing Sensor Values. IEEE International Conference on Big Data 2015, Santa Clara, USA.
 48. Han Xiao, Shou-De Lin, Mi-Yen Yeh, Phillip Gibbons, Claudia Eckert (2015, Oct). Learning Better while Sending Less: Communication-Efficient Online Semi-Supervised Learning in Client-Server Settings. 2015 IEEE International Conference on Data Science and Advanced Analytics, Paris, France.

49. Yen-Kai Wang, Wei-Ming Chen, Cheng-Te Li, Shou-De Lin (2015, Oct). Identifying Smallest Unique Subgraphs in a Heterogeneous Social Network. IEEE International Conference on Big Data 2015, Santa Clara, USA.
50. Hsun-Ping Hsieh, Cheng-Te Li and Shou-De Lin (2015, Aug). Estimating Potential Customers Anywhere and Anytime on Location-based Social Networks. ECML/PKDD 2015, Porto, Portugal.
51. Hsun-Ping Hsieh, Shou-De Lin Yu Zheng (2015, Aug). Inferring Air Quality for Station Location Recommendation Based on Urban Big Data. ACM SIGKDD 2015, Sydney, Australia.
52. Su-Chene Lin, Shou-De Lin, Ming-Syan Chen (2015, Aug). A Learning-based Framework to handle Multi-round Multi-party influence maximization on social networks. ACM SIGKDD 2015, Sydney, Australia.
53. En-Hsu Yen, Ting-Wei Lin, Shou-De Lin, Pradeep Ravikumar and Inderjit Dhillon (2014, Dec). Sparse Random Feature Algorithm as Coordinate Descent in Hilbert Space. NIPS 2014.
54. How Jing and Shou-De Lin (2014, Dec). Neural Conditional Energy Models for Multi-Label Classification. ICDM 2014.
55. How Jing, An-Chun Liang, Shou-De Lin and Yu Tsao (2014, Dec). A Transfer Probabilistic Collective Factorization Model to Handle Sparse Data in Collaborative Filtering. ICDM 2014.
56. Wei-Shih Lin, Tsung-Ting Kuo, Yu-Yang Huang, Wan-Chen Lu and Shou-De Lin (2014, Dec). A Transfer-Learning Approach to Exploit Noisy Information for Classification and Its Application on Sentiment Detection. TAAI 2014.
57. Yu-Yang Huang, Yu-An Yen, Ting-Wei Ku, Shou-De Lin, Wen-Tai Hsieh and Tsun Ku (2014, Dec). A Weight-Sharing Gaussian Process Model Using Web-Based Information for Audience Rating Prediction TAAI 2014.
58. Cho-Yi Hsiao, Hung-Yi Lo, Tu-Chun Yin, and Shou-De Lin (2014, Oct). Optimizing Specificity under Perfect Sensitivity for Medical Data Classification. International Conference on Data Science and Advanced Analytics. DSAA 2014.
59. Jung-Jung Yeh, Tsung-Ting Kuo, William Chen, and Shou-De Lin (2014, Oct). Minimizing Expected Loss for Risk-Avoiding Reinforcement Learning. International Conference on Data Science and Advanced Analytics, DSAA 2014, Shanghai, China.
60. Chin-Hua Tsai, Jing-Kai Lou, Eason Huang, and Shou-De Lin (2014, Aug). Exploiting Rank-Learning Models to Predict the Diffusion of Preferences on Social Networks. ASONAM 2014.
61. Chung-Yi Li and Shou-De Lin (2014, Aug). Matching Users and Items Across Domains to Improve the Recommendation Quality. ACM SIGKDD 2014, New York, NY, USA.
62. Eric L. Lee, Jing-Kai Lou, Wei-Ming Chen, Yen-Chi Chen, Shou-De Lin, Yen-Sheng Chiang, and Kuan-Ta Chen (2014, Aug). A Fairness-Aware Loan Recommender System for Microfinance Services. Socialcom 2014.
63. Jun-Kun Wang and Shou-De Lin (2014, Jun). Robust Inverse Covariance Estimation under Noisy Measurements. International Conference on Machine Learning (ICML) 2014, Beijing, China.
64. Yu-Yang Huang, Rui Yan, Tsung-Ting Kuo and Shou-De Lin (2014, Jun). Enriching Cold Start Personalized Language Model Using Social Network Information. ACL 2014.
65. Chia-Jen Lin, Tsung-Ting Kuo, and Shou-De Lin (2014, May). A Content-based Matrix Factorization Model for Recipe Recommendation. PAKDD 2014.
66. Cheng-Lun Yang, Perng-Hwa Kungy, Cheng-Te Li, Chun-An Chen, Shou-De Lin (2013, Dec). Sampling Heterogeneous Networks. ICDM.
67. Jui-Pin Wang, Yu-Chen Lu, Mi-Yen Yeh, Shou-De Lin, and Phillip B. Gibbons (2013, Dec). Communication-Efficient Distributed Multiple Reference Pattern Matching for M2M Systems. IEEE ICDM .
68. Chun-Liang Li, Yu-Chuan Su, Ting-Wei Lin, Cheng-Hao Tsai, Wei-Cheng Chang, Kuan-Hao Huang, Tzu-Ming Kuo, Shan-Wei Lin, Young-San Lin, Yu-Chen Lu, Chun-Pai Yang, Cheng-Xia Chang, Wei-Sheng Chin, Yu-Chin Juan, Hsiao-Yu Tung, Jui-Pin Wang, Cheng-Kuang Wei, Felix Wu, Tu-Chun Yin, Tong Yu, Yong Zhuang, Shou-de Lin, Hsuan-Tien Lin, Chih-Jen Lin (2013, Aug). Combination of Feature Engineering and Ranking Models for Paper-Author Identification in KDD Cup 2013. KDD Cup Workshop.
69. Ian E.H. Yen, Chun-Fu Chang, Ting-Wei Lin, Shan-Wei Lin, Shou-De Lin (2013, Aug). Indexed Block Coordinate Descent for Large-Scale Linear Classification with Limited Memory (ACM SIGKDD 2013).

ACM SIGKDD .

70. Tsung-Ting Kuo, Rui Yan, Yu-Yang Huang, Perng-Hwa Kung, Shou-De Lin (2013, Aug). Unsupervised Link Prediction Using Aggregative Statistics on Heterogeneous Social Networks (ACM SIGKDD 2013). ACM SIGKDD .
71. Wei-Sheng Chin, Yu-Chin Juan, Yong Zhuang, Felix Wu, Hsiao-Yu Tung, Tong Yu, Jui-Pin Wang, Cheng-Xia Chang, Chun-Pai Yang, Wei-Cheng Chang, Kuan-Hao Huang, Tzu-Ming Kuo, Shan-Wei Lin, Young-San Lin, Yu-Chen Lu, Yu-Chuan Su, Cheng-Kuang Wei, Tu-Chun Yin, Chun-Liang Li, Ting-Wei Lin, Cheng-Hao Tsai, Shou-De Lin, Hsuan-Tien Lin, Chih-Jen Lin (2013, Aug). Effective String Processing and Matching for Author Disambiguation. KDD Cup Workshop.
72. Cheng-Lun Yang, Perng-Hwa Kung, Chun-An Chen, Shou-De Lin (2013, May). Semantically Sampling in Heterogeneous Social Networks. WWW .
73. Jing-Kai Lou, Fu-Min Wang, Chin-Hua Tsai, San-Chuan Hung, Perng-Hwa Kung, and Shou-De Lin (2013, May). Modeling the Diffusion of Preferences On Social Networks. SIAM International Conference on Data Mining .
74. Jung-Wei Chou, Yi-Lin Tsai, Min-Huang Chu, Shou-de Lin, Yun Jin, Chen-Mou Cheng (2013, Apr). Exploiting Machine Learning Techniques to Perform Side Channel Attack. PAKDD, GoldCoast, Australia.
75. Yu-Chun Shen, Tsung-Ting Kuo, Shou-de Lin, I-Ning Yeh, Tzu-Ting Chen (2013, Apr). Exploiting Temporal Information in a Two-stage Classification Framework for Content-based Depression Detection. PAKDD 2013.
76. Ian EH Yen, Nanyun Peng, Po-Wei Wang, Shou-De Lin (2012, Dec). On Convergence Rate of Concave-Convex Procedure. NIPS workshop on optimization.
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