

MENG JIANG, PH.D.

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WORK EXPERIENCE

Assistant Professor

2017 – *present*

University of Notre Dame
Department of Computer Science and Engineering
Center for Network and Data Science (CNDS)

Postdoctoral Research Associate

2015 – 2017

University of Illinois at Urbana-Champaign
Department of Computer Science
Data and Information Systems Laboratory

EDUCATION

Ph.D.

Tsinghua University, Computer Science

2015

Thesis: *Modeling Complex User Behaviors in Social Media*

Graduated with honors

B.S.

Tsinghua University, Computer Science

2010

Graduated with honors

HONORS AND AWARDS

Best Paper Award at ISDSA

2020

ACM WSDM Conference Outstanding PC

2020

ND Global Gateway Faculty Research Award

2019

Tutorial Honorarium, ACM CIKM

2016

Tutorial Honorarium, IEEE ICDM

2015

Best Paper Finalist, ACM SIGKDD

2014

Travel Award, ACM SIGKDD

2014

Travel Award, PAKDD

2014

SCHOLAR PAGES

Google Scholar: <https://scholar.google.com/citations?user=LZIPfCkAAAAJ>

Citations

2118

h-index

20

i10-index

32

DBLP: https://dblp.org/pers/hd/j/Jiang_0001:Meng

SPONSORED PROGRAMS

Total Amount: \$1,396,151; Total Share: **\$625,671**

“Enhancing Graph Learning with Structure, Dynamic, and Content Predictors”

July 1, 2020 (Unrestricted gift)

Funding Vehicle: Snap Inc. Research

Amount: **\$10,000**

Role: Single PI

“CRII: III: Beyond Similarity Learning: Complementarity Learning for Contextual Behavior Modeling”

October 1, 2019 – September 30, 2021

Funding Vehicle: NSF IIS-1849816

Amount: **\$174,910**

Role: Single PI

“SHF: Medium: Collaborative Research: Semantically-Enhanced Software Traceability for Supporting Human-Centric Tasks”

August 15, 2019 – August 14, 2023

Funding Vehicle: NSF CCF-1901059

Amount: \$1,019,030 (Share: **\$336,280**)

Role: Co-PI with ND Profs. Huang and Metoyer (Comp. Sci. & Eng.)

“Digital Empires: Structured Biographical and Social Network Analysis of Early Chinese Empires”

May 1, 2019 – August 31, 2021

Funding Vehicle: Notre Dame RGG

Amount: \$43,811 (Share: **\$30,281**)

Role: Co-PI with ND Prof. Cai (History)

“Representation Learning for Modeling and Predicting User Engagement and Propensity for Conversion Through the Engagement Funnel”

January 21, 2019 – May 20, 2020

Funding Vehicle: Conde Nast

Amount: \$148,400 (Share: **\$74,200**)

Role: Co-PI with ND Prof. Chawla (Comp. Sci. & Eng.)

(@ indicates supervised graduate students. * indicates supervised undergraduate students.)

PUBLICATIONS

Refereed Conference Papers (10 ACM SIGKDD full papers, etc.)

- C44 Guo, Z., @Yu, W., Zhang, C., **Jiang, M.**, Chawla, N.V. “GraSeq: Graph and Sequence Fusion Learning for Molecular Property Prediction”, in *Proceedings of ACM International Conference on Information and Knowledge Management* (CIKM), October 2020. (acceptance rate 21% = 193/920)
- C43 @Zhao, T., *Deng, C., *Yu, K., @Jiang, T., @Wang, D., **Jiang, M.** “Error-bounded Graph Anomaly Loss for GNNs”, in *Proceedings of ACM International Conference on Information and Knowledge Management* (CIKM), October 2020. (acceptance rate 21% = 193/920)
- C42 Liu, Y., Lin, J., @Zeng, Q., **Jiang, M.**, Cleland-Huang, J. “Towards Semantically Guided Traceability”, in *Proceedings of IEEE International Requirements Engineering Conference* (RE), August 2020.
- C41 @Wang, D., **Jiang, M.**, Syed, M., Conway, O., Juneja, V., Subramanian, S., Chawla, N.V. “Calendar Graph Neural Networks for Modeling Time Structures in Spatiotemporal User Behaviors”, in *Proceedings of ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), August 2020. (oral, acceptance rate 5.8% = 44/756)
- C40 @Yu, W., Wu, L., @Zeng, Q., Tao, S., Deng, Y., **Jiang, M.** “Crossing Variational Autoencoders for Answer Retrieval”, in *Proceedings of Annual Meeting of the Association for Computational Linguistics* (ACL), July 2020.
- C39 **Jiang, M.** “Improving Situational Awareness with Collective Artificial Intelligence over Knowledge Graphs”, in *Proceedings of Artificial Intelligence and Machine Learning for Multi-Domain Operations Applications II in SPIE Defense + Commercial Sensing Symposium*, April 2020. (oral)
- C38 @Yu, W., *Yu, M., @Zhao, T., **Jiang, M.** “Identifying Referential Intention with Heterogeneous Contexts”, in *Proceedings of The Web Conference* (TheWebConf), April 2020. (acceptance rate 19% = 217/1129)
- C37 @Yu, W., *Peng, W., *Shu, Y., @Zeng, Q., **Jiang, M.** “Experimental Evidence Extraction in Data Science with Hybrid Table Features and Ensemble Learning”, in *Proceedings of The Web Conference* (TheWebConf), April 2020. (**best poster award** at the 14th Annual Poster Contest at ND CSE; acceptance rate 19% = 217/1129)
- C36 Tang, P., **Jiang, M.**, Xia, N., Pitera, J., Welser, J., Chawla, N.V. “Multi-label Patent Categorization with Non-local Attention-based Graph Convolutional Network”, in *Proceedings of AAAI Conference on Artificial Intelligence* (AAAI), February 2020. (acceptance rate 20.6% = 1591/7737)
- C35 Zhang, C., Yao, H., **Jiang, M.**, Li, Z., Chawla, N.V. “Few-Shot Knowledge Base Completion”, in *Proceedings of AAAI Conference on Artificial Intelligence* (AAAI), February 2020. (acceptance rate 20.6% = 1591/7737)

- C34 Yao, H., Zhang, C., Wei, Y., **Jiang, M.**, Wang, S., Chawla, N.V., Li, Z. “Graph Few-shot Learning via Knowledge Transfer”, in Proceedings of *AAAI Conference on Artificial Intelligence* (AAAI), February 2020. (acceptance rate 20.6% = 1591/7737)
- C33 @Ding, Y., @Wang, D., Weninger, T., **Jiang, M.** “Preserving Composition and Crystal Structure Information of Chemical Compounds in Atomic Embedding”, in Proceedings of *IEEE International Conference on Big Data* (BigData), December 2019. (poster)
- C32 @Jiang, T., *Zhang, Z., @Zhao, T., Qin, B., Liu, T., Chawla, N.V., **Jiang, M.** “CTGA: Graph-based Biomedical Literature Search”, in Proceedings of *IEEE International Conference on Bioinformatics and Biomedicine* (BIBM), November 2019. (acceptance rate 18% = 98/543)
- C31 @Jiang, T., @Zhao, T., Qin, B., Liu, T., Chawla, N.V., **Jiang, M.** “Multi-input Multi-output Sequence Labeling for Joint Extraction of Fact and Condition Tuples from Scientific Text” in Proceedings of *Conference on Empirical Methods in Natural Language Processing* (EMNLP), November 2019. (acceptance rate 23% = 465/2022)
- C30 Wang, T., Xu, X., Xiong, J., **Jiang, M.**, Shi, Y. “MSU-Net: Multiscale Statistical U-Net for Real-time 3D Cardiac MRI Video Segmentation” in Proceedings of *International Conference on Medical Image Computing and Computer Assisted Intervention* (MICCAI), October 2019. (acceptance rate 31% = 536/1729)
- C29 @Jiang, T., @Zhao, T., Qin, B., Liu, T., Chawla, N.V., **Jiang, M.** “The Role of Condition: A Novel Scientific Knowledge Graph Representation and Construction Model” in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), August 2019. (acceptance rate 14.2% = 170/1200)
- C28 @Wang, D., @Jiang, T., Chawla, N.V., **Jiang, M.** “TUBE: Embedding Behavior Outcomes for Predicting Success” in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), August 2019. (**best paper award** at the Annual Meeting of the International Society for Data Science and Analytics; acceptance rate 9.2% = 110/1200)
- C27 *Yu, W., Li, Z., @Zeng, Q., **Jiang, M.** “Tablepedia: Automating PDF Table Reading in an Experimental Evidence Exploration and Analytic System” in Proceedings of *The Web Conference* (TheWebConf), May 2019. (demo)
- C26 @Wang, X., @Zhang, H., @Li, Q., Shi, Y., **Jiang, M.** “A Novel Unsupervised Approach for Precise Temporal Slot Filling from Incomplete and Noisy Temporal Contexts” in Proceedings of *The Web Conference* (TheWebConf), May 2019. (**best poster award** at the 13th Annual Poster Contest at ND CSE; acceptance rate 18.0% = 225/1247)
- C25 @Zhao, T., *Malir, M., **Jiang, M.** “Actionable Objective Optimization for Suspicious Behavior Detection on Large Bipartite Graphs” in Proceedings of *IEEE International Conference on Big Data* (BigData), December 2018. (acceptance rate 18.9% = 98/518)

- C24 Tao, F., Zhang, C., Chen, X., **Jiang, M.**, Hanratty, T., Kaplan, L., Han, J. “Doc2Cube: Allocating Documents to Text Cube without Labeled Data” in Proceedings of *IEEE International Conference on Data Mining (ICDM)*, November 2018. (acceptance rate 11.1% = 105/948)
- C23 Ding, Y., Liu, J., Xiong, J., **Jiang, M.**, Shi, Y. “Optimizing Boiler Control in Real-Time with Machine Learning for Sustainability” in Proceedings of *ACM International Conference on Information and Knowledge Management (CIKM)*, October 2018. (acceptance rate 26.0% = 34/130)
- C22 Zhao, S., **Jiang, M.**, Liu, M., Qin, B., Liu, T. “CausalTriad: Toward Pseudo Causal Relation Discovery and Hypotheses Generation from Medical Text Data” in Proceedings of *ACM International Conference on Bioinformatics, Computational Biology, and Health Informatics (BCB)*, August 2018. (acceptance rate 31.1% = 46/148)
- C21 @Wang, D., **Jiang, M.**, @Wang, X., @Zhao, T., @Zeng, Q., Chawla, N.V. “A Project Showcase for Planning Research Work towards Publishable Success” in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2018. (demo)
- C20 Zhang, C., Tao, F., Chen, X., Shen, J., **Jiang, M.**, Sadler, B., Vanni, M., Han, J. “TaxoGen: Constructing Topical Concept Taxonomy by Adaptive Term Embedding and Clustering” in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2018. (acceptance rate 10.9% = 107/983)
- C19 **Jiang, M.**, Li, Q., Zhang, X., Qu, M., Hanratty, T., Gao, J., Han, J. “TruePIE: Discovering Reliable Patterns in Pattern-Based Information Extraction” in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2018. (acceptance rate 10.9% = 107/983)
- C18 @Wang, D., **Jiang, M.**, @Zeng, Q., @Eberhart, Z., Chawla, N.V. “Multi-Type Itemset Embedding for Learning Behavior Success” in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2018. (acceptance rate 10.9% = 107/983)
- C17 Zhao, S., **Jiang, M.**, Yuan, Q., Qin, B., Liu, T., Zhai, C.X. “ContextCare: Incorporating Contextual Information Networks to Representation Learning in Medical Forum Data” in Proceedings of *International Joint Conference on Artificial Intelligence (IJCAI)*, August 2017. (acceptance rate 26.0% = 660/2540)
- C16 **Jiang, M.**, Shang, J., Cassidy, T., Ren, X., Kaplan, L., Hanratty, T., Han, J. “MetaPAD: Meta Pattern Discovery from Massive Text Corpora” in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2017. (acceptance rate 13.7% = 130/748)
- C15 Kuang, K., Cui, P., Li, B., **Jiang, M.**, Yang, S., Wang, F. “Estimating Treatment Effect in the Wild via Differentiated Confounder Balancing” in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2017. (acceptance rate 13.7% = 130/748)
- C14 Ren, X., Shen, J., Qu, M., Wang, X., Wu, Z., Zhu, Q., **Jiang, M.**, Tao, F., Sinha, S., Liem, D., Ping, P., Weinshilboum, R., Han, J. “LifeNet: A Structured

- Network-Based Knowledge Exploration and Analytics System for Life Sciences” in Proceedings of *Annual Meeting of the Association for Computational Linguistics* (ACL), July 2017. (demo)
- C13 Kuang, K., Cui, P., Li, B., **Jiang, M.**, Yang, S., Wang, F. “Treatment Effect Estimation with Data-Driven Variable Decomposition” in Proceedings of *AAAI Conference on Artificial Intelligence* (AAAI), February 2017. (acceptance rate 24.6% = 638/2590)
 - C12 Kuang, K., **Jiang, M.**, Cui, P., Yang, S. “Steering Social Media Promotions with Effective Strategies” in Proceedings of *IEEE International Conference on Data Mining* (ICDM), November 2016. (acceptance rate 19.6% = 177/904)
 - C11 Gui, H., Liu, J., Tao, F., **Jiang, M.**, Norick, B., Han, J. “Large-Scale Embedding Learning in Heterogeneous Event Data” in Proceedings of *IEEE International Conference on Data Mining* (ICDM), November 2016. (acceptance rate 19.6% = 177/904)
 - C10 **Jiang, M.**, Faloutsos, C., Han, J. “CatchTartan: Representing and Summarizing Dynamic Multicontextual Behaviors” in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), August 2016. (acceptance rate 8.9% = 70/784)
 - C9 **Jiang, M.**, Cui, P., Yuan, N.J., Xie, X., Yang, S. “Little is Much: Bridging Cross-Platform Behaviors through Overlapped Crowds” in Proceedings of *AAAI Conference on Artificial Intelligence* (AAAI), February 2016. (acceptance rate 25.8% = 550/2132)
 - C8 **Jiang, M.**, Beutel, A., Cui, P., Hooi, B., Yang, S., Faloutsos, C. “A General Suspiciousness Metric for Dense Blocks in Multimodal Data” in Proceedings of *IEEE International Conference on Data Mining* (ICDM), November 2015. (acceptance rate 18.1% = 146/807)
 - C7 **Jiang, M.**, Cui, P., Wang, F., Xu, X., Zhu, W., Yang, S. “FEMA: Flexible Evolutionary Multi-Faceted Analysis for Dynamic Behavioral Pattern Discovery” in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), August 2014. (acceptance rate 14.6% = 151/1036)
 - C6 **Jiang, M.**, Cui, P., Beutel, A., Faloutsos, C., Yang, S. “CatchSync: Catching Synchronized Behavior in Large Directed Graphs” in Proceedings of *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), August 2014. (**best paper finalist** and invited to TKDD special issue; acceptance rate 14.6% = 151/1036)
 - C5 **Jiang, M.**, Cui, P., Beutel, A., Faloutsos, C., Yang, S. “Inferring Strange Behavior from Connectivity Pattern in Social Networks” in Proceedings of *Pacific-Asia Conference on Knowledge Discovery and Data Mining* (PAKDD), April 2014. (acceptance rate 10.8% = 40/371)
 - C4 **Jiang, M.**, Cui, P., Beutel, A., Faloutsos, C., Yang, S. “Detecting Suspicious Following Behavior in Multimillion-Node Social Networks” in Proceedings of *International Conference on World Wide Web* (WWW), April 2014. (poster)

- C3 **Jiang, M.**, Cui, P., Wang, F., Yang, Q., Zhu, W., Yang, S. “Social Recommendation across Multiple Relational Domains” in *Proceedings of ACM International Conference on Information and Knowledge Management (CIKM)*, October 2012. (acceptance rate 13.4% = 146/1088)
- C2 **Jiang, M.**, Cui, P., Liu, R., Yang, Q., Wang, F., Zhu, W., Yang, S. “Social Contextual Recommendation” in *Proceedings of ACM International Conference on Information and Knowledge Management (CIKM)*, October 2012. (acceptance rate 13.4% = 146/1088)
- C1 Liu, L., Tang, J., Han, J., **Jiang, M.**, Yang, S. “Mining Topic-Level Influence in Heterogeneous Networks” in *Proceedings of ACM International Conference on Information and Knowledge Management (CIKM)*, October 2010. (acceptance rate 13.3% = 126/945)
- Refereed Journal Papers* (6 IEEE Trans. on Knowledge & Data Eng. (TKDE), etc.)
- J19 @Jiang, T., @Zeng, Q., @Zhao, T., Qin, B., Liu, T., Chawla, N.V., **Jiang, M.** “Biomedical Knowledge Graphs Construction from Conditional Statements” *IEEE/ACM Transactions on Computational Biology and Bioinformatics*. In press, early access in March 2020. (IF=3.015)
- J18 Liu, J., Xu, X., **Jiang, M.**, Shi, Y. “Binarizing Weights Wisely for Edge Intelligence: Guide for Partial Binarization of Deconvolution-Based Generators” *Transactions on Computer-Aided Design of Integrated Circuits and Systems*. In press, early access in March 2020. (IF=2.168)
- J17 Zhou, S., Hu, Z., Gu, W., **Jiang, M.**, Chen, M., Hong, Q., Booth, C. “Combined Heat and Power System Intelligent Economic Dispatch: A Deep Reinforcement Learning Approach” *International Journal of Electrical Power and Energy Systems*. 120, September 2020. (IF=3.588)
- J16 @Wang, X., **Jiang, M.** “Precise Temporal Slot Filling via Truth Finding with Data-Driven Commonsense” *Knowledge and Information Systems*. 1-27, July 2020. (IF=2.936)
- J15 **Jiang, M.**, Ammerman, B.A., @Zeng, Q., Jacobucci, R., Brodersen, A. “Phrase-level Pairwise Topic Modeling to Uncover Helpful Peer Responses to Online Suicidal Crises” *Humanities & Social Sciences Communications* (formerly known as *Nature Palgrave Communications*). 7:36, July 2020.
- J14 Kuang, K., Cui, P., Li, B., **Jiang, M.**, Yang, S. “Treatment Effect Estimation via Differentiated Confounder Balancing and Regression” *ACM Transactions on Knowledge Discovery from Data*. 14:1, 1-25, December 2019. (IF=2.200)
- J13 Zhou, S., Hu, Z., Zhong, Z., He, D., **Jiang, M.** “An Integrated Energy System Operating Scenarios Generator based on Generative Adversarial Network” *Sustainability*. 11:23, 6699, November 2019. (IF=2.576)
- J12 Zhou, S., Hu, Z., Gu, W., **Jiang, M.**, Zhang, X.P. “Artificial Intelligence based Smart Energy Community Management: A Reinforcement Learning Approach” *CSEE Journal of Power and Energy Systems*. 5:1, 1-10, March 2019. (IF=2.680)
- J11 Kuang, K., **Jiang, M.**, Cui, P., Luo, H., Yang, S. “Effective Promotional Strategies Selection in Social Media: A Data-Driven Approach” *IEEE Transactions on Big Data*. 4:4, 487-501, December 2018.

- J10 Shang, J., Liu, J., **Jiang, M.**, Ren, X., Voss, C.R., Han, J. “Automated Phrase Mining from Massive Text Corpora” *IEEE Transactions on Knowledge and Data Engineering*. 30:10, 1825-1837, October 2018. (IF=4.935)
- J9 Shang, J., **Jiang, M.**, Tong, W., Xiao, J., Peng, J., Han, J. “DPPred: An Effective Prediction Framework with Concise Discriminative Patterns” *IEEE Transactions on Knowledge and Data Engineering*. 30:7, 1226-1239, July 2018. (IF=4.935)
- J8 Gui, H., Liu, J., Tao, F., **Jiang, M.**, Norick, B., Kaplan, L., Han, J. “Embedding Learning with Events in Heterogeneous Information Networks” *IEEE Transactions on Knowledge and Data Engineering*. 29:11, 2428-2441, July 2017. (IF=4.935)
- J7 **Jiang, M.**, Cui, P., Beutel, A., Faloutsos, C., Yang, S. “Inferring Lockstep Behavior from Connectivity Pattern in Large Graphs” *Knowledge and Information Systems*. 48:2, 399-428, August 2016. (IF=2.936)
- J6 **Jiang, M.**, Cui, P., Beutel, A., Faloutsos, C., Yang, S. “Catching Synchronized Behaviors in Large Networks: A Graph Mining Approach” *ACM Transactions on Knowledge Discovery from Data - Special Issue on SIGKDD 2014*. 10:4, 35:1-35:27, July 2016. (IF=2.200)
- J5 **Jiang, M.**, Beutel, A., Cui, P., Hooi, B., Yang, S., Faloutsos, C. “Spotting Suspicious Behaviors in Multimodal Data: A General Metric and Algorithms” *IEEE Transactions on Knowledge and Data Engineering*. 28:8, 2187-2200, April 2016. (IF=4.935)
- J4 **Jiang, M.**, Cui, P., Yang, S. “Suspicious Behavior Detection: Current Trends and Future Directions” *IEEE Intelligent Systems*. 31:1, 31-39, January 2016. (IF=3.210)
- J3 **Jiang, M.**, Cui, P., Chen, X., Wang, F., Zhu, W., Yang, S. “Social Recommendation with Cross-Domain Transferable Knowledge” *IEEE Transactions on Knowledge and Data Engineering*. 27:11, 3084-3097, November 2015. (IF=4.935)
- J2 **Jiang, M.**, Cui, P., Wang, F., Zhu, W., Yang, S. “Scalable Recommendation with Social Contextual Information” *IEEE Transactions on Knowledge and Data Engineering*. 26:11, 2789-2802, November 2014. (IF=4.935)
- J1 Liu, L., Zhu, F., **Jiang, M.**, Han, J., Sun, L., Yang, S. “Mining Diversity on Social Media Networks” *Multimedia Tools and Applications*. 56:1, 179-205, January 2012. (IF=2.313)

Refereed Workshop Papers

- W12 @Wang, D., *Zhang, Z., *Ma, Y., @Zhao, T., @Jiang, T., Chawla, N.V., **Jiang, M.** “Learning Attribute-Structure Co-Evolutions in Dynamic Graphs”, in the *Second International Workshop on Deep Learning on Graphs: Methods and Applications (DLG)* in conjunction with *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, August 2020.
- W11 @Zhao, T., *Ni, B., @Yu, W., **Jiang, M.** “Early Fraud Detection with Augmented Graph Learning”, in the *Second International Workshop on Deep Learning on Graphs: Methods and Applications (DLG)* in conjunction with *ACM*

SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), August 2020.

- W10 @Zhao, T., *Deng, C., *Yu, K., @Jiang, T., @Wang, D., **Jiang, M.** “GNN-based Graph Anomaly Detection with Graph Anomaly Loss”, in the *Second International Workshop on Deep Learning on Graphs: Methods and Applications* (DLG) in conjunction with *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), August 2020.
- W9 *Zhou, Y., @Zhao, T., **Jiang, M.** “A Probabilistic Model with Commonsense Constraints for Pattern-based Temporal Fact Extraction”, in the *Workshop on Fact Extraction and Verification* (FEVER) in conjunction with *Annual Meeting of the Association for Computational Linguistics* (ACL), July 2020.
- W8 @Yu, W., Wu, L., Tao, S., Deng, Y., @Zeng, Q., **Jiang, M.** “Generating Helpful Responses for Intelligent Tech Support”, in the *Reasoning for Complex QA Workshop* (RCQA) in conjunction with *AAAI Conference on Artificial Intelligence* (AAAI), February 2020.
- W7 Yao, H., Zhang, C., Wei, Y., **Jiang, M.**, Wang, S., Chawla, N.V., Li, Z. “Graph Few-shot Learning via Knowledge Transfer”, in the *Graph Representation Learning Workshop* (GRL) in conjunction with *Conference on Neural Information Processing Systems* (NeurIPS), November 2019.
- W6 @Zeng, Q., *Yu, M., @Yu, W., Xiong, J., Shi, Y., **Jiang, M.** “Faceted Hierarchy: A New Graph Type to Organize Scientific Concepts and a Construction Method”, in the *Workshop on Graph-Based Natural Language Processing* (TextGraphs) in conjunction with *Conference on Empirical Methods in Natural Language Processing* (EMNLP), November 2019.
- W5 *Ma, Y., @Zeng, Q., @Jiang, T., Cai, L., **Jiang, M.** “A Study of Person Entity Extraction and Profiling from Classical Chinese Historiography”, in the *International Workshop on Entity REtrieval* (EYRE) in conjunction with *ACM International Conference on Information and Knowledge Management* (CIKM), November 2019.
- W4 @Jiang, T., @Zhao, T., Qin, B., Liu, T., Chawla, N.V., **Jiang, M.** “Constructing Information-Lossless Biological Knowledge Graphs from Conditional Statements” in the 18th *International Workshop on Data Mining in Bioinformatics* (BioKDD) in conjunction with *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), August 2019.
- W3 @Wang, D., **Jiang, M.**, @Wang, X., Chawla, N.V., Brunts, P. “Multifaceted Event Analysis on Cross-Media Network Data” in the *International Workshop on Heterogeneous Networks Analysis and Mining* (HeteroNAM) in conjunction with *ACM Conference on Web Search and Data Mining* (WSDM), February 2018.
- W2 Chen, L.W., Mangipudi, B., Bandlamudi, J., Sehgal, R., Hao, Y., **Jiang, M.** “Integrating Knowledge from Latent and Explicit Features for Triple ScoringTeam Radicchio’s Triple Scorer at WSDM Cup 2017” in the 10th *ACM Conference on Web Search and Data Mining Notebook Papers* (WSDM), February 2017.

- W1 **Jiang, M.** “Catching Social Media Advertisers with Strategy Analysis” in the 1st *International Workshop on Computational Methods for CyberSafety* in conjunction with *ACM International Conference on Information and Knowledge Management* (CIKM), October 2016.

Refereed Tutorials

- T9 **Jiang, M.**, Shang, J. “Scientific Text Mining and Knowledge Graphs” in the *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), August 2020.
- T8 Zhang, C., **Jiang, M.**, Zhang, X., Ye, Y., Chawla, N.V. “Multi-modal Network Representation Learning: Methods and Applications” in the *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), August 2020.
- T7 Zhang, C., **Jiang, M.**, Zhang, X., Chawla, N.V. “Multi-modal Network Representation Learning: Methods and Applications” in the *SIAM International Conference on Data Mining* (SDM), May 2020. (accepted but cancelled due to COVID-19)
- T6 **Jiang, M.**, Kumar, S., Subrahmanian, V.S., Faloutsos, C. “Data-Driven Approaches towards Malicious Behavior Modeling” in the *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), August 2017.
- T5 Shang, J., **Jiang, M.**, Ren, X., Han, J. “Mining Entity-Relation-Attribute Structures from Massive Text Data” in the *ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (KDD), August 2017.
- T4 Ren, X., **Jiang, M.**, Shang, J., Han, J. “Building Structured Databases of Factual Knowledge from Massive Text Data” in the *ACM SIGMOD International Conference on Management of Data* (SIGMOD), May 2017.
- T3 Ren, X., **Jiang, M.**, Shang, J., Han, J. “Constructing Structured Information Networks from Massive Text Corpora” in the *International World Wide Web Conference* (WWW), April 2017.
- T2 **Jiang, M.**, Cui, P., Han, J. “Data-Driven Behavioral Analytics: Observations, Representations and Models” in the *ACM International Conference on Information and Knowledge Management* (CIKM), October 2016.
- T1 **Jiang, M.**, Cui, P. “Behavior Modeling in Social Networks: From Micro to Macro” in the *IEEE International Conference on Data Mining* (ICDM), November 2015.

Invited Book Chapters

- BC2 **Jiang, M.** “Behavior Modeling in Social Networks” *Encyclopedia of Social Network Analysis and Mining*, Springer, New York, NY, 2017.
- BC1 **Jiang, M.**, Cui, P. “Mining User Behaviors in Large Social Networks” Chapter 4, *Big Data in Complex and Social Networks*, Chapman & Hall/CRC Big Data Series, 2016.

Preprints

- P13 @Jiang, T., @Zhao, T., Qin, B., Liu, T., Chawla, N.V., **Jiang, M.** “Canonicalizing Open Knowledge Bases with Multi-Layered Meta-Graph Neural Network” in *arXiv preprint arXiv:2006.09610*, June 2020.
- P12 @Zhao, T., Liu, Y., Neves, L., Woodford, O., **Jiang, M.**, Shah, N. “Data Augmentation for Graph Neural Networks” in *arXiv preprint arXiv:2006.06830*, June 2020.
- P11 @Wang, D., **Jiang, M.**, Syed, M., Conway, O., Juneja, V., Subramanian, S., Chawla, N.V. “Calendar Graph Neural Networks for Modeling Time Structures in Spatiotemporal User Behaviors” in *arXiv preprint arXiv:2006.06820*, June 2020. (accepted in KDD 2020)
- P10 *Zhou, Y., @Zhao, T., **Jiang, M.** “A Probabilistic Model with Common-sense Constraints for Pattern-based Temporal Fact Extraction” in *arXiv preprint arXiv:2006.06436*, June 2020. (accepted in ACL-FEVER 2020)
- P9 @Yu., W., Wu., L., @Zeng, Q., Deng, Yu, Tao, S., **Jiang, M.** “Crossing Variational Autoencoders for Answer Retrieval” in *arXiv preprint arXiv:2005.02557*, May 2020. (accepted in ACL 2020)
- P8 Zhu, C., Hinthorn, W., Xu, R., Zeng, @Q., Zeng, M., Huang, X., **Jiang, M.** “Boosting Factual Correctness of Abstractive Summarization with Knowledge Graph” in *arXiv preprint arXiv:2003.08612*, March 2020.
- P7 Saebi, M., Krieg, S., Zhang, C., **Jiang, M.**, Chawla, N.V. “Heterogeneous Relational Reasoning in Knowledge Graphs with Reinforcement Learning” in *arXiv preprint arXiv:2003.06050*, March 2020.
- P6 *Ni, B., @Guo, Z., @Li, J., **Jiang, M.** “Improving Generalizability of Fake News Detection Methods using Propensity Score Matching” in *arXiv preprint arXiv:2002.00838*, January 2020.
- P5 Zhang, C., Yao, H., Huang, C., **Jiang, M.**, Li, Z., Chawla, N.V. “Few-Shot Knowledge Graph Completion” in *arXiv preprint arXiv:1911.11298*, November 2019. (accepted in AAAI 2020)
- P4 Yao, H., Zhang, C., Wei, Y., **Jiang, M.**, Wang, S., Huang, J., Chawla, N.V., Li, Z. “Graph Few-Shot Learning via Knowledge Transfer” in *arXiv preprint arXiv:1910.03053*, October 2019. (accepted in AAAI 2020)
- P3 Jiang, T., Zhao, T., Qin, B., Liu, T., Chawla, N.V., **Jiang, M.** “Constructing Information-Lossless Biological Knowledge Graphs from Conditional Statements” in *arXiv preprint arXiv:1907.00720*, June 2019. (accepted in KDD 2019)
- P2 Liu, J., Zhang, J., Ding, Y., Xu, X., **Jiang, M.**, Shi, Y. “PBGen: Partial Binarization of Deconvolution-Based Generators for Edge Intelligence” in *arXiv preprint arXiv:1802.09153*, February 2018. (accepted in TCADICS)
- P1 Shang, J., Shi, X., **Jiang, M.**, Liu, L., Hanratty, T., Han, J. “Contrast Subgraph Mining from Coherent Cores” in *arXiv preprint arXiv:1802.06189*, February 2018.

PUBLICATIONS UNDER REVIEW

Refereed Conference Papers

- CR12 @Zhao, T., *Ni, B., @Yu, W., **Jiang, M.** “Early Fraud Detection by Learning and Forecasting Behavior”, under review at *ACM International Conference on Web Search and Data Mining (WSDM)*, 2020.
- CR11 Syed, M., @Wang, D., **Jiang, M.**, Conway, O., Juneja, V., Subramanian, S., Chawla, N.V. “Unified Representation of Twitter and Online News using Graph and Entities”, under review at *ACM International Conference on Web Search and Data Mining (WSDM)*, 2020.
- CR10 Liu, Z., **Jiang, M.**, Luo, T. “Leverage Electron Properties to Predict Phonon Properties via Transfer Learning for Semiconductors”, under review at *ASME’s International Mechanical Engineering Congress and Exposition (IMECE)*, 2020. (abstract)
- CR9 @Zhao, T., Liu, Y., Woodford, O., Neves, L., **Jiang, M.**, Shah, N. “Improving Graph Neural Network Generalization with Data Augmentation”, under review at *Conference on Neural Information Processing Systems (NeurIPS)*, 2020.
- CR8 **Jiang, M.**, Jung, T., Karl, R., @Zhao, T. “Federated Dynamic GNN with Secure Aggregation”, under review at *Conference on Neural Information Processing Systems (NeurIPS)*, 2020.
- CR7 @Yu, W., Wu, L., Deng, Y., Mahindru, R., @Zeng, Q., Guven, S., **Jiang, M.** “A Technical Question Answering System with Transfer Learning”, under review at *Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2020. (demo)
- CR6 *Dong, X., @Yu, W., Zhu, C., **Jiang, M.** “Injecting Entity Types into Entity-Guided News Generation”, under review at *Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2020.
- CR5 Zhu, C., Hinthorn, W., Xu, R., @Zeng, Q., Zeng, M., Huang, X., **Jiang, M.** “Boosting Factual Correctness of Abstractive Summarization with Knowledge Graph”, under review at *Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2020.
- CR4 @Zeng, Q., @Yu, W., *Yu, M., @Jiang, T., Weninger, T., **Jiang, M.** “Tri-Train: Automatic Pre-fine Tuning between Pre-training and Fine-tune Training for SciNER”, under review at *Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2020.
- CR3 @Zeng, Q., *Yu, M., @Yu, W., @Jiang, T., Weninger, T., **Jiang, M.** “Validating Label Consistency in NER Data Annotation”, under review at *Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2020.
- CR2 Zhang, C., Yu, L., Saebi, M., **Jiang, M.**, Chawla, N.V. “Few-Shot Multi-Hop Relation Reasoning over Knowledge Bases”, under review at *Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2020.

- CR1 Syed, M., @Wang, D., **Jiang, M.**, Conway, O., Juneja, V., Subramanian, S., Chawla, N.V. “Overcoming Data Sparsity in Predicting User Characteristics from Behavior through Graph Embeddings”, under review at *The IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining* (ASONAM), 2020.

Refereed Journal Papers

- JR6 @Wang, D., *Zhang, Z., *Ma, Y., @Zhao, T., @Jiang, T., Chawla, N.V., **Jiang, M.** “Modeling Co-evolution of Attributed and Structural Information in Graph Sequence”, under review at *IEEE Transactions on Knowledge and Data Engineering*. (IF=4.935)
- JR5 Saebi, M., Krieg, S., Zhang, C., **Jiang, M.**, Chawla, N.V. “Heterogeneous Relational Reasoning in Knowledge Graphs with Reinforcement Learning”, under review at *Transactions on Knowledge Discovery from Data*. (IF=2.200)
- JR4 Zhang, C., Yao, H., Yu, L., Huang, C., Song, D., **Jiang, M.**, Chen, H., Chawla, N.V. “Inductive Contextual Relation Learning for Personalization”, under review at *Transactions on Information Systems*. (IF=2.312)
- JR3 Liu, Z., **Jiang, M.**, Luo, T. “Leverage Electron Properties to Predict Phonon Properties via Transfer Learning for Semiconductors”, under review at *Science Advances*. (In revision, IF=13.116)
- JR2 @Wang, D., @Zeng, Q., Chawla, N.V., **Jiang, M.** “Modeling Complementarity in Behavior Data with Multi-Type Itemset Embedding”, under review at *ACM Transactions on Intelligent Systems and Technology*. (Conditional acceptance with minor revision, IF=2.861)
- JR1 Zhao, S., **Jiang, M.**, Qin, B., Liu, T., Zhai, C.X., Wang, F. “Structural and Textual Information Fusion for Symptom and Disease Representation Learning”, under review at *IEEE Transactions on Knowledge and Data Engineering*. (Major revision, IF=4.935)

INVITED TALKS

Microsoft Research, Zoom, August 2020

Conference Follow-up from Artificial Intelligence and Machine Learning for Multi-Domain Operations, Zoom, May 2020

Saint Mary’s College, Notre Dame, Indiana, February 2020

IBM TJ Watson Laboratory, Yorktown Heights, New York, February 2020

Yahoo! Research, New York City, New York, July 2019

IBM TJ Watson Laboratory, Yorktown Heights, New York, October 2018

Nanjing University, Nanjing, Jiangsu, December 2017

University of Electronic Science and Technology of China, Chengdu, Sichuan, December 2017

Zhejiang University, Hangzhou, Zhejiang, November 2017

Tsinghua University, Beijing, November 2017
Binghamton University, Binghamton, New York, March 2017
Georgia State University, Atlanta, Georgia, March 2017
University of Oregon, Eugene, Oregon, March 2017
Rensselaer Polytechnic Institute, Troy, New York, February 2017
University of Maryland, Baltimore County, Baltimore, Maryland, February 2017
Temple University, Philadelphia, Pennsylvania, January 2017
The Ohio State University, Columbus, Ohio, October 2016
University of Massachusetts Boston, Boston, Massachusetts, November 2015

MASTER STUDENT GRADUATED

Xueying Wang, *Graduated May 2019*

Thesis: *Improving Information Extraction via Truth Finding with Data-Driven Commonsense*

Bhakti Sharma, *Graduated July 2020*

Project: *Review Analysis: Analyzing Sentiment and Predicting Rating Score from Amazon Reviews using BERT*

PAST STUDENT SUPERVISION

Eric Zhang, *Trinity High School Student* (September 2018–July 2020)

Michael Florin, *Trinity High School Student* (September 2019–July 2020)

Matthew Malir, *Undergraduate Student* (January–May 2018)

Sebastian Miner, *Undergraduate Student* (January–May 2018)

Matthew Schoenbauer, *Undergraduate Student* (September 2018–May 2019)

Tina Wu, *Undergraduate Student* (September 2018–May 2019)

Chan Hee Song, *Undergraduate Student* (September 2019–March 2020)

Xiangyu Dong, *Undergraduate Student* (September 2019–July 2020)

Tianze Zheng, *Undergraduate Student* (September 2019–July 2020)

Alvin Alaphat, *Undergraduate Student* (January–May 2020)

Luke Marushack, *Undergraduate Student* (January–May 2020)

Wenhao Yu, *Visiting Undergraduate Student* (May–August 2018)

Yu Shu, *Visiting Undergraduate Student* (May–August 2018)

Chuchen Deng, *Visiting Undergraduate Student* (May–August 2019)

Yihong Ma, *Visiting Undergraduate Student* (May–August 2019)

Xin Liu, *Visiting Undergraduate Student* (July–August 2019)

Wei Peng, *Visiting Undergraduate Student* (July–August 2019)

Mengxia Yu, *Visiting Undergraduate Student* (July–August 2019)
Kaifeng Yu, *Visiting Undergraduate Student* (July–August 2019)
Zhihan Zhang, *Visiting Undergraduate Student* (July–August 2019)
Yang Zhou, *Visiting Undergraduate Student* (July–August 2019)
Zaitang Li, *Visiting Undergraduate Student* (September 2019–July 2020)
Xueying Wang, *Master Student* (January 2018–May 2019)
Bhakti Sharma, *Master Student* (May–July 2020)
Zijian Hu, *Visiting Master Student* (July–August 2019)
Tianwen Jiang, *Visiting Ph.D. Student* (September 2018–August 2019)

CURRENT STUDENT SUPERVISION

Bo Ni, *Undergraduate Student* (since September 2019)
Ann Hermann, *Undergraduate Student* (since May 2020)
Michael Lee, *Undergraduate Student* (since May 2020)
Joseph Kuebler, *Undergraduate Student* (since August 2020)
Facundo Munoz, *Undergraduate Student* (since August 2020)
Fangcong Yin, *Undergraduate Student* (since August 2020)
Daheng Wang, *Ph.D. Student* (since September 2017), co-ad. with Prof. Chawla
Qingkai Zeng, *Ph.D. Student* (since January 2018)
Tong Zhao, *Ph.D. Student* (since September 2018)
Wenhao Yu, *Ph.D. Student* (since July 2019)
Lingbo Tong, *Ph.D. Student* (since August 2020)
Mengxia Yu, *Ph.D. Student* (since August 2020)
Zhihan Zhang, *Ph.D. Student* (since January 2021)
Jianing Li, *Master Student* (since September 2019)

TEACHING COURSES

CS 412 Introduction to Data Mining, *University of Illinois* (Summer 2017)
CSE 40647/60647 Data Science, *University of Notre Dame* (Fall 2017)
CSE 40647/60647 Data Science, *University of Notre Dame* (Spring 2018)
CSE 40647/60647 Data Science, *University of Notre Dame* (Fall 2018)
CSE 40647/60647 Data Science, *University of Notre Dame* (Fall 2019)
CSE 60326 Computational Behavior Modeling, *University of Notre Dame*
(Spring 2020)
CSE 40647/60647 Data Science, *University of Notre Dame* (Fall 2020)

PROFESSIONAL ACTIVITIES

Departmental Service

Graduate admission committee at ND CSE (since 2017)

Ph.D. Thesis Committee

Dr. Maria Glenski, Notre Dame Comp. Sci. & Eng.
Dr. Yuan Gong, Notre Dame Comp. Sci. & Eng.
Dr. Chao Huang, Notre Dame Comp. Sci. & Eng.
Dr. Zhiyu Liu, Notre Dame Electrical Engineering
Dr. Kenton Murray, Notre Dame Comp. Sci. & Eng.
Dr. Alireza Partovi, Notre Dame Electrical Engineering
Dr. Munira Syed, Notre Dame Comp. Sci. & Eng.
Dr. Tianchen Wang, Notre Dame Comp. Sci. & Eng.
Dr. Xian Wu, Notre Dame Comp. Sci. & Eng.
Dr. Chuxu Zhang, Notre Dame Comp. Sci. & Eng.
Dr. Shenglong Zhu, Notre Dame Comp. Sci. & Eng.
Suhansanu Kumar, UIUC Computer Science
Peixian Liang, Notre Dame Comp. Sci. & Eng.
Guoqiang Liu, Notre Dame Biology
Kaitlynn Meis, Notre Dame Biology
Mandana Saebi, Notre Dame Comp. Sci. & Eng.
Pamela Bilo Thomas, Notre Dame Comp. Sci. & Eng.
Hao Zheng, Notre Dame Comp. Sci. & Eng.

Organizing Committee

2020 Senior Program Committee, ACM International Conference on Knowledge Management (CIKM)
2020 Senior Program Committee, International Conference on Artificial Intelligence in Medicine (AIME)
2019 Publication Chair, ACM International Conference on Knowledge Management (CIKM)
Publicity Chair, Int'l Conf. on Computational Data and Social Networks (CSoNet)
2018 Co-Chair, Workshop on Misinformation and Misbehavior Mining on the Web at International Conference on Web Search and Data Mining (WSDM)
2016 Co-Chair, Special session on Big Behavioral Data Analytics at IEEE International Conference on Data Science and Advanced Analytics (DSAA)

Program Committee

2021 International Conference on Web Search and Data Mining (WSDM)
International World Wide Web Conference (WWW)
2020 ACM SIGKDD Int'l Conf. on Knowledge Discovery and Data Mining (KDD)
International World Wide Web Conference (WWW)
Annual Meeting of the Association for Computational Linguistics (ACL)
Conference on Empirical Methods in Natural Language Processing (EMNLP)
ACM International Conference on Knowledge Management (CIKM)
International Conference on Web Search and Data Mining (WSDM)
Conference on Neural Information Processing Systems (NeurIPS)

- 2019 ACM SIGKDD Int'l Conf. on Knowledge Discovery and Data Mining (KDD)
 International World Wide Web Conference (WWW)
 AAAI Conference on Artificial Intelligence (AAAI)
 International Joint Conference on Artificial Intelligence (IJCAI)
 Conference on Empirical Methods in Natural Language Processing (EMNLP)
 ACM International Conference on Knowledge Management (CIKM)
 International Conference on Web Search and Data Mining (WSDM)
 SIAM Conference on Data Mining (SDM)
 Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD)
 Int'l Conf. Series on Advances in Social Network Analysis and Mining (ASONAM)
- 2018 ACM SIGKDD Int'l Conf. on Knowledge Discovery and Data Mining (KDD)
 International World Wide Web Conference (WWW)
 AAAI Conference on Artificial Intelligence (AAAI)
 Conference on Empirical Methods in Natural Language Processing (EMNLP)
 ACM International Conference on Knowledge Management (CIKM)
 International Conference on Web Search and Data Mining (WSDM)
 SIAM Conference on Data Mining (SDM)
 ACM International Conference on Multimedia (MM)
 Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD)
 Workshop on Graph Techniques for Adversarial Activity Analytics (GTA3)
 Workshop on Social Influence Analysis and Mining Actionable Insights from Social Networks (SocInf+MAISoN)
- 2017 AAAI Conference on Artificial Intelligence (AAAI)
 ACM International Conference on Knowledge Management (CIKM)
 ACM International Conference on Multimedia (MM)
 Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD)

Associate Editor

Big Data Networks (Frontiers in Big Data) (since January 2020): Research topic: "Computational Behavioral Modeling for Big User Data." Submission deadline: 19 July 2020 (Abstract); 16 November 2020 (Manuscript).
 Data Mining and Knowledge Discovery (*DAMI*) (since February 2020)

Journal Reviewer

IEEE Access (*Access*)
 Artificial Intelligence Journal (*AI Journal*)
 Data Mining and Knowledge Discovery (*DAMI*)
 Decision Sciences Journal (*DSJ*)
 Frontiers of Computer Science (*FCS*)
 International Journal of Information Technology and Decision Making (*IJITDM*)
 Information Sciences (*INS*)
 Information Systems (*InfoSys*)
 Information Processing and Management (*IPM*)
 IEEE Intelligent Systems (*IS*)
 Journal of Computers (*JCP*)
 Journal of Machine Learning Research (*JMLR*)
 INFORMS Journal on Computing (*JOC*)
 Knowledge and Information Systems (*KAIS*)
 Neurocomputing (*NEUCOM*)
 PLOS ONE (*PlosOne*)
 Pattern Recognition (*PR*)

Scientific Reports (*SciReports*)
IEEE Transactions on Big Data (*TBD*)
IEEE Transactions on Information Forensics and Security (*TIFS*)
KSII Transactions on Internet and Information Systems (*TIIS*)
ACM Transactions on Intelligent Systems and Technology (*TIST*)
ACM Transactions on Knowledge Discovery from Data (*TKDD*)
IEEE Transactions on Knowledge and Data Engineering (*TKDE*)
Transactions on Information Systems (*TOIS*)
ACM Trans. on Multimedia Comp. Comm. and App. (*TOMCCAP*)
IEEE Transactions on Neural Networks and Learning Systems (*TNNLS*)
World Wide Web Journal (*WWWJ*)