

2017 Index

IEEE Transactions on Knowledge and Data Engineering

Vol. 29

This index covers all technical items — papers, correspondence, reviews, etc. — that appeared in this periodical during 2017, and items from previous years that were commented upon or corrected in 2017. Departments and other items may also be covered if they have been judged to have archival value.

The Author Index contains the primary entry for each item, listed under the first author's name. The primary entry includes the coauthors' names, the title of the paper or other item, and its location, specified by the publication abbreviation, year, month, and inclusive pagination. The Subject Index contains entries describing the item under all appropriate subject headings, plus the first author's name, the publication abbreviation, month, and year, and inclusive pages. Note that the item title is found only under the primary entry in the Author Index.

AUTHOR INDEX

A

- Aanen, S.**, *see* Vandic, D., *May 2017 1004-1016*
- Abdelhamid, E.**, Ananim, M., Sadoghi, M., Bhattacharjee, B., Chang, Y., and Kalnis, P., Incremental Frequent Subgraph Mining on Large Evolving Graphs; *Dec. 2017 2710-2723*
- Aboulnaga, A.**, *see* Mior, M.J., *Oct. 2017 2275-2289*
- Adhikari, B.**, *see* Pandey, P.K., *Oct. 2017 2072-2085*
- Advokaat, N.**, *see* Bagan, G., *April 2017 856-869*
- Aggarwal, C.**, *see* Duan, L., *Nov. 2017 2402-2416*
- Aiello, L.M.**, Schifanella, R., Redi, M., Svetlichnaya, S., Liu, F., and Osindero, S., Beautiful and Damned. Combined Effect of Content Quality and Social Ties on User Engagement; *Dec. 2017 2682-2695*
- Ailem, M.**, Role, F., and Nadif, M., Sparse Poisson Latent Block Model for Document Clustering; *July 2017 1563-1576*
- Akbari, M.**, Hu, X., Wang, F., and Chua, T., Wellness Representation of Users in Social Media: Towards Joint Modelling of Heterogeneity and Temporality; *Oct. 2017 2360-2373*
- Al-Maadeed, S.A.**, *see* Mahmood, A., *April 2017 921-935*
- Allab, K.**, Labiod, L., and Nadif, M., A Semi-NMF-PCA Unified Framework for Data Clustering; *Jan. 2017 2-16*
- Altwaijry, H.**, Kalashnikov, D.V., and Mehrotra, S., QDA: A Query-Driven Approach to Entity Resolution; *Feb. 2017 402-417*
- Amagata, D.**, and Hara, T., Mining Top-k Co-Occurrence Patterns across Multiple Streams; *Oct. 2017 2249-2262*
- Amalaman, P.K.**, Eick, C.F., and Wang, C., Supervised Taxonomies—Algorithms and Applications; *Sept. 2017 2040-2052*
- Andolina, A.**, *see* Terenziani, P., *Sept. 2017 2067-2071*
- Aprem, A.**, *see* Hoiles, W., *July 2017 1426-1437*
- Atluri, G.**, *see* Karpatne, A., *Oct. 2017 2318-2331*

B

- Bagan, G.**, Bonifati, A., Ciucanu, R., Fletcher, G.H.L., Lemay, A., and Advokaat, N., gMark: Schema-Driven Generation of Graphs and Queries; *April 2017 856-869*
- Bai, J.**, Li, L., Zeng, D., and Li, Q., Associated Activation-Driven Enrichment: Understanding Implicit Information from a Cognitive Perspective; *Dec. 2017 2655-2668*
- Banerjee, A.**, *see* Karpatne, A., *Oct. 2017 2318-2331*
- Batu, B.B.**, Temizel, T.T., and Duzgun, H.S., A Non-Parametric Algorithm for Discovering Triggering Patterns of Spatio-Temporal Event Types; *Dec. 2017 2629-2642*
- Bhattacharjee, B.**, *see* Abdelhamid, E., *Dec. 2017 2710-2723*
- Bhowmick, S.S.**, Chua, H.E., Choi, B., and Dyreson, C., VISUAL: Simulation of Visual Subgraph Query Formulation to Enable Automated Performance Benchmarking; *Aug. 2017 1765-1778*
- Bliss, N.**, *see* Chen, C., *Oct. 2017 2332-2346*
- Bonifati, A.**, *see* Bagan, G., *April 2017 856-869*
- Borcea, C.**, *see* Wang, C., *Sept. 2017 2012-2025*

- Bouguettaya, A.**, *see* Neiat, A.G., *July 2017 1384-1397*
- Brown, P.**, and Link, S., Probabilistic Keys; *March 2017 670-682*
- Buchler, N.**, *see* Li, L., *March 2017 613-626*
- Buddhika, T.**, Malensek, M., Pallickara, S.L., and Pallickara, S., Synopsis: A Distributed Sketch over Voluminous Spatiotemporal Observational Streams; *Nov. 2017 2552-2566*

C

- Cai, Z.**, *see* Cheng, S., *April 2017 813-827*
- Canim, M.**, *see* Abdelhamid, E., *Dec. 2017 2710-2723*
- Cao, J.**, *see* Li, W., *Oct. 2017 2182-2196*
- Cao, N.**, *see* Li, L., *March 2017 613-626*
- Carbunar, B.**, *see* Rahman, M., *June 2017 1329-1342*
- Catena, M.**, and Tonello, N., Energy-Efficient Query Processing in Web Search Engines; *July 2017 1412-1425*
- Chan, T.N.**, Yiu, M.L., and Hua, K.A., Efficient Sub-Window Nearest Neighbor Search on Matrix; *April 2017 784-797*
- Chang, C.**, *see* Hsueh, Y., *May 2017 963-976*
- Chang, K.**, *see* Hai, Z., *June 2017 1172-1185*
- Chang, L.**, Li, W., Qin, L., Zhang, W., and Yang, S., pSCAN: Fast and Exact Structural Graph Clustering; *Feb. 2017 387-401*
- Chang, X.**, *see* Li, Z., *Oct. 2017 2100-2110*
- Chang, Y.**, *see* Hu, Y., *Sept. 2017 1902-1915*
- Chang, Y.**, *see* Wang, Y., *Nov. 2017 2442-2454*
- Chang, Y.**, *see* Abdelhamid, E., *Dec. 2017 2710-2723*
- Chau, D.H.**, *see* Rahman, M., *June 2017 1329-1342*
- Chawla, S.**, *see* Surian, D., *Aug. 2017 1591-1604*
- Chen, C.**, *see* Wang, X., *Feb. 2017 243-256*
- Chen, C.**, *see* Chen, G., *March 2017 656-669*
- Chen, C.**, He, J., Bliss, N., and Tong, H., Towards Optimal Connectivity on Multi-Layered Networks; *Oct. 2017 2332-2346*
- Chen, E.**, *see* Wu, L., *June 2017 1240-1253*
- Chen, E.**, *see* Yang, Y., *Nov. 2017 2615-2628*
- Chen, E.**, *see* Wang, Z., *Nov. 2017 2374-2387*
- Chen, F.**, *see* Zhao, L., *May 2017 1059-1072*
- Chen, G.**, Yang, K., Chen, L., Gao, Y., Zheng, B., and Chen, C., Metric Similarity Joins Using MapReduce; *March 2017 656-669*
- Chen, G.**, *see* Chen, L., *March 2017 556-571*
- Chen, G.**, *see* Cheng, X., *Sept. 2017 1779-1792*
- Chen, G.**, Zhao, J., Gao, Y., Chen, L., and Chen, R., Time-Aware Boolean Spatial Keyword Queries; *Nov. 2017 2601-2614*
- Chen, G.**, *see* Wang, B., *Oct. 2017 2168-2181*
- Chen, H.**, Ku, W., Wang, H., Tang, L., and Sun, M., Scaling Up Markov Logic Probabilistic Inference for Social Graphs; *Feb. 2017 433-445*
- Chen, H.**, *see* Yu, Z., *Aug. 2017 1577-1590*
- Chen, H.**, *see* Jiang, B., *Dec. 2017 2758-2771*
- Chen, J.**, *see* Yang, C., *June 2017 1144-1157*
- Chen, J.**, *see* Cheng, B., *May 2017 950-962*
- Chen, L.**, *see* Chen, G., *March 2017 656-669*
- Chen, L.**, Gao, Y., Li, X., Jensen, C.S., and Chen, G., Efficient Metric Indexing for Similarity Search and Similarity Joins; *March 2017 556-571*
- Chen, L.**, *see* Yuan, Y., *June 2017 1212-1225*
- Chen, L.**, *see* Zheng, L., *Sept. 2017 1943-1956*
- Chen, L.**, *see* Shang, S., *July 2017 1549-1562*
- Chen, L.**, *see* Wang, H., *Jan. 2017 128-142*
- Chen, L.**, *see* Meng, R., *May 2017 1087-1100*
- Chen, L.**, *see* Chen, G., *Nov. 2017 2601-2614*
- Chen, L.**, *see* Yin, H., *Nov. 2017 2537-2551*
- Chen, L.**, *see* Shao, Y., *Oct. 2017 2210-2222*
- Chen, R.**, *see* Chen, G., *Nov. 2017 2601-2614*
- Chen, S.**, Martinez, A.M., Webb, G.I., and Wang, L., Sample-Based Attribute Selective An DE for Large Data; *Jan. 2017 172-185*
- Chen, X.**, *see* Song, G., *Feb. 2017 359-372*
- Chen, X.**, *see* Gu, H., *Oct. 2017 2236-2248*
- Chen, Y.**, *see* Wang, C., *Sept. 2017 2012-2025*

- Chen, Y.**, *see* Liu, Z., *Aug. 2017 1667-1680*
- Chen, Y.**, Liu, Y., Zhang, M., and Ma, S., User Satisfaction Prediction with Mouse Movement Information in Heterogeneous Search Environment; *Nov. 2017 2470-2483*
- Cheng, B.**, Zhao, S., Li, C., and Chen, J., A Web Services Discovery Approach Based on Mining Underlying Interface Semantics; *May 2017 950-962*
- Cheng, G.**, Shao, F., and Qu, Y., An Empirical Evaluation of Techniques for Ranking Semantic Associations; *Nov. 2017 2388-2401*
- Cheng, P.**, *see* Hai, Z., *June 2017 1172-1185*
- Cheng, R.**, *see* He, Z., *Feb. 2017 286-299*
- Cheng, R.**, *see* Hu, J., *Nov. 2017 2455-2469*
- Cheng, S.**, Cai, Z., Li, J., and Gao, H., Extracting Kernel Dataset from Big Sensory Data in Wireless Sensor Networks; *April 2017 813-827*
- Cheng, X.**, Zhu, S., Su, S., and Chen, G., A Multi-Objective Optimization Approach for Question Routing in Community Question Answering Services; *Sept. 2017 1779-1792*
- Cheng, Z.**, *see* Zhu, L., *Feb. 2017 472-486*
- Cheung, D.W.**, *see* Liu, Y., *Sept. 2017 1957-1970*
- Cho, H.**, *see* Yeo, J., *May 2017 1073-1086*
- Choi, B.**, *see* Lin, X., *July 2017 1452-1465*
- Choi, B.**, *see* Bhowmick, S.S., *Aug. 2017 1765-1778*
- Chow, C.**, *see* Zhang, J., *April 2017 798-812*
- Chowdary, V.M.**, *see* Das, M., *April 2017 842-855*
- Chu, L.**, *see* Wang, Z., *Nov. 2017 2374-2387*
- Chua, H.E.**, *see* Bhowmick, S.S., *Aug. 2017 1765-1778*
- Chua, T.**, *see* Wei, X., *Feb. 2017 344-358*
- Chua, T.**, *see* Lin, H., *Sept. 2017 1820-1833*
- Chua, T.**, *see* Akbari, M., *Oct. 2017 2360-2373*
- Ciucanu, R.**, *see* Bagan, G., *April 2017 856-869*
- Civek, B.C.**, and Kozat, S.S., Efficient Implementation of Newton-Raphson Methods for Sequential Data Prediction; *Dec. 2017 2786-2791*
- Conforti, R.**, Rosa, M.L., and Hofstede, A.H.t., Filtering Out Infrequent Behavior from Business Process Event Logs; *Feb. 2017 300-314*
- Cong, G.**, *see* Guo, L., *March 2017 627-641*
- Cong, G.**, *see* Hai, Z., *June 2017 1172-1185*
- Cook, D.J.**, *see* Minor, B.D., *Dec. 2017 2744-2757*
- Cudre-Mauroux, P.**, *see* Wylot, M., *Aug. 2017 1751-1764*
- Cui, B.**, *see* Shao, Y., *Oct. 2017 2210-2222*
- Culpepper, J.S.**, *see* Li, J., *Aug. 2017 1653-1666*

D

- Dadhwal, V.K.**, *see* Das, M., *April 2017 842-855*
- Das, M.**, Ghosh, S.K., Gupta, P., Chowdary, V.M., Nagaraja, R., and Dadhwal, V.K., FORWARD: A Model for Forecasting Reservoir WAtER Dynamics Using Spatial Bayesian Network (SpaBN); *April 2017 842-855*
- De Raedt, L.**, *see* Le Van, T., *Aug. 2017 1737-1750*
- Deng, H.**, *see* Wang, Y., *Nov. 2017 2442-2454*
- Deng, S.**, *see* Gu, H., *Oct. 2017 2236-2248*
- Dong, D.**, *see* Ma, X., *May 2017 1045-1058*
- Doppa, J.R.**, *see* Minor, B.D., *Dec. 2017 2744-2757*
- Dou, Z.**, *see* Jiang, Z., *Feb. 2017 315-329*
- Doulkeridis, C.**, *see* Georgoulas, K., *Jan. 2017 200-213*
- Du, B.**, *see* Zhao, N., *Nov. 2017 2498-2509*
- Du, B.**, *see* Wang, H., *Oct. 2017 2263-2274*
- Du, J.**, *see* Wu, L., *June 2017 1240-1253*
- Duan, L.**, Ma, S., Aggarwal, C., Ma, T., and Huai, J., An Ensemble Approach to Link Prediction; *Nov. 2017 2402-2416*
- Duan, X.**, *see* Wu, F., *Oct. 2017 2304-2317*
- Dumas, M.**, *see* Maaradji, A., *Oct. 2017 2140-2154*
- Dupre, D.T.**, *see* Spiotta, M., *Nov. 2017 2567-2580*
- Duzgun, H.S.**, *see* Batu, B.B., *Dec. 2017 2629-2642*
- Dyreson, C.**, *see* Bhowmick, S.S., *Aug. 2017 1765-1778*

E

- Eckert, M.**, *see* Li, X., *April 2017 912-920*
- Ehrlich, K.**, *see* Li, L., *March 2017 613-626*
- Eick, C.F.**, *see* Amalman, P.K., *Sept. 2017 2040-2052*
- Ester, M.**, *see* Liu, Y., *Sept. 2017 1957-1970*

F

- Faghmous, J.H.**, *see* Karpatne, A., *Oct. 2017 2318-2331*
- Fan, Q.**, Li, Y., Zhang, D., and Tan, K., Discovering Newsworthy Themes from Sequenced Data: A Step Towards Computational Journalism; *July 2017 1398-1411*
- Fan, W.**, *see* Mu, Y., *Feb. 2017 458-471*
- Fan, Z.**, *see* Lin, X., *Oct. 2017 2290-2303*
- Fang, B.**, Jia, Y., Li, X., Li, A., and Wu, X., Big Search in Cyberspace; *Sept. 2017 1793-1805*
- Fang, Q.**, *see* Huang, Q., *Dec. 2017 2772-2785*
- Fang, Y.**, *see* Hu, J., *Nov. 2017 2455-2469*
- Feng, J.**, *see* Ta, N., *April 2017 870-883*
- Feng, J.**, *see* Hao, S., *April 2017 727-742*
- Feng, J.**, *see* Huang, Q., *Dec. 2017 2772-2785*
- Feng, L.**, *see* Lin, H., *Sept. 2017 1820-1833*
- Feng, L.**, *see* Jin, L., *July 2017 1508-1521*
- Feng, X.**, *see* Yan, S., *Oct. 2017 2086-2099*
- Feng, Z.**, *see* He, Z., *Feb. 2017 286-299*
- Fletcher, G.H.L.**, *see* Bagan, G., *April 2017 856-869*
- Frasincar, F.**, *see* Vandic, D., *May 2017 1004-1016*
- Fu, L.**, *see* Wang, B., *Oct. 2017 2168-2181*
- Fu, W.**, *see* Wang, M., *May 2017 1101-1114*
- Fu, Y.**, *see* Liu, H., *May 2017 1129-1143*

G

- Ganguly, A.**, *see* Karpatne, A., *Oct. 2017 2318-2331*
- Gao, H.**, *see* Cheng, S., *April 2017 813-827*
- Gao, H.**, *see* Han, X., *June 2017 1199-1211*
- Gao, M.**, *see* He, X., *Jan. 2017 57-71*
- Gao, X.**, *see* Yang, P., *Nov. 2017 2510-2521*
- Gao, Y.**, *see* Chen, G., *March 2017 656-669*
- Gao, Y.**, *see* Chen, L., *March 2017 556-571*
- Gao, Y.**, *see* Song, S., *Aug. 2017 1695-1708*
- Gao, Y.**, *see* Chen, G., *Nov. 2017 2601-2614*
- Gao, Z.**, *see* Nie, L., *June 2017 1186-1198*
- Ge, Y.**, *see* Liu, C., *March 2017 586-598*
- Ge, Y.**, *see* Wu, L., *June 2017 1240-1253*
- Ge, Y.**, *see* Hong, R., *June 2017 1343-1356*
- Gehrke, J.**, *see* Lehner, W., *March 2017 497-498*
- Georgoulas, K.**, Vlachou, A., Doulkeridis, C., and Kotidis, Y., User-Centric Similarity Search; *Jan. 2017 200-213*
- Ghosh, S.K.**, *see* Das, M., *April 2017 842-855*
- Gionis, A.**, Mathioudakis, M., and Ukkonen, A., Bump Hunting in the Dark: Local Discrepancy Maximization on Graphs; *March 2017 529-542*
- Gong, Z.**, *see* Lu, J., *March 2017 572-585*
- Gopalakrishnan, V.**, *see* Xun, G., *Jan. 2017 38-56*
- Groth, P.**, *see* Wylot, M., *Aug. 2017 1751-1764*
- Gu, B.**, Li, Z., Zhang, X., Liu, A., Liu, G., Zheng, K., Zhao, L., and Zhou, X., The Interaction Between Schema Matching and Record Matching in Data Integration; *Jan. 2017 186-199*
- Gu, H.**, Wang, X., Chen, X., Deng, S., and Shi, J., Manifold Learning by Curved Cosine Mapping; *Oct. 2017 2236-2248*
- Guan, J.**, *see* Li, W., *Oct. 2017 2182-2196*
- Gui, H.**, Liu, J., Tao, F., Jiang, M., Norick, B., Kaplan, L., and Han, J., Embedding Learning with Events in Heterogeneous Information Networks; *Nov. 2017 2428-2441*
- Gunopulos, D.**, *see* Valkanas, G., *Sept. 2017 1971-1984*
- Guo, L.**, Zhang, D., Cong, G., Wu, W., and Tan, K., Influence Maximization in Trajectory Databases; *March 2017 627-641*
- Guo, L.**, *see* Guo, S., *April 2017 884-897*
- Guo, L.**, *see* Wang, Q., *Dec. 2017 2724-2743*
- Guo, Q.**, *see* Wang, C., *Dec. 2017 2669-2681*
- Guo, S.**, Wang, Q., Wang, B., Wang, L., and Guo, L., SSE: Semantically Smooth Embedding for Knowledge Graphs; *April 2017 884-897*
- Gupta, P.**, *see* Das, M., *April 2017 842-855*
- Guzzo, A.**, Pugliese, A., Rullo, A., Sacca, D., and Piccolo, A., Malevolent Activity Detection with Hypergraph-Based Models; *May 2017 1115-1128*

H

- Hai, Z.**, Cong, G., Chang, K., Cheng, P., and Miao, C., Analyzing Sentiments in One Go: A Supervised Joint Topic Modeling Approach; *June 2017 1172-1185*
- Han, B.**, Liu, L., and Omiecinski, E., A Systematic Approach to Clustering Whole Trajectories of Mobile Objects in Road Networks; *May 2017 936-949*
- Han, G.**, see Yu, Z., *Aug. 2017 1577-1590*
- Han, J.**, see Gui, H., *Nov. 2017 2428-2441*
- Han, X.**, Li, J., and Gao, H., Efficient Top-k Dominating Computation on Massive Data; *June 2017 1199-1211*
- Han, Y.**, Yao, J., Lin, X., and Wang, L., GALLOP: GlobAL Feature Fused LOfation Prediction for Different Check-in Scenarios; *Sept. 2017 1874-1887*
- Hao, S.**, see Ta, N., *April 2017 870-883*
- Hao, S.**, Tang, N., Li, G., He, J., Ta, N., and Feng, J., A Novel Cost-Based Model for Data Repairing; *April 2017 727-742*
- Hao, S.**, see Wang, M., *May 2017 1101-1114*
- Hao, T.**, see Wu, Q., *July 2017 1494-1507*
- Hara, T.**, see Amagata, D., *Oct. 2017 2249-2262*
- Hauswirth, M.**, see Wylot, M., *Aug. 2017 1751-1764*
- He, C.**, see Hong, R., *June 2017 1343-1356*
- He, J.**, see Hao, S., *April 2017 727-742*
- He, J.**, see Chen, C., *Oct. 2017 2332-2346*
- He, X.**, see Song, G., *Feb. 2017 359-372*
- He, X.**, Gao, M., Kan, M., and Wang, D., BiRank: Towards Ranking on Bipartite Graphs; *Jan. 2017 57-71*
- He, Z.**, Wong, P., Kao, B., Lo, E., Cheng, R., and Feng, Z., Efficient Pattern-Based Aggregation on Sequence Data; *Feb. 2017 286-299*
- He, Z.**, see Li, J., *Aug. 2017 1653-1666*
- Heflin, J.**, see Song, D., *Jan. 2017 143-156*
- Hofstede, A.H.t.**, see Conforti, R., *Feb. 2017 300-314*
- Hoiles, W.**, Aprem, A., and Krishnamurthy, V., Engagement and Popularity Dynamics of YouTube Videos and Sensitivity to Meta-Data; *July 2017 1426-1437*
- Holzemer, M.**, see Xu, C., *Aug. 2017 1709-1722*
- Hong, R.**, see Wu, L., *June 2017 1240-1253*
- Hong, R.**, He, C., Ge, Y., Wang, M., and Wu, X., User Vitality Ranking and Prediction in Social Networking Services: A Dynamic Network Perspective; *June 2017 1343-1356*
- Hou, C.**, Nie, F., Tao, H., and Yi, D., Multi-View Unsupervised Feature Selection with Adaptive Similarity and View Weight; *Sept. 2017 1998-2011*
- Hou, C.**, see Zhuge, W., *Oct. 2017 2347-2359*
- Hsu, W.**, see Li, F., *July 2017 1522-1535*
- Hsueh, Y.**, Lin, C., and Chang, C., An Efficient Indexing Method for Skyline Computations with Partially Ordered Domains; *May 2017 963-976*
- Hu, B.**, see Liu, Y., *Sept. 2017 1957-1970*
- Hu, G.**, Shao, J., Liu, F., Wang, Y., and Shen, H.T., IF-Matching: Towards Accurate Map-Matching with Information Fusion; *Jan. 2017 114-127*
- Hu, H.**, see Lin, X., *Oct. 2017 2290-2303*
- Hu, J.**, Wu, X., Cheng, R., Luo, S., and Fang, Y., On Minimal Steiner Maximum-Connected Subgraph Queries; *Nov. 2017 2455-2469*
- Hu, W.**, see Wang, H., *Oct. 2017 2263-2274*
- Hu, X.**, see Ranganath, S., *Oct. 2017 2197-2209*
- Hu, X.**, see Akbari, M., *Oct. 2017 2360-2373*
- Hu, Y.**, Kang, C., Tang, J., Yin, D., and Chang, Y., Large-Scale Location Prediction for Web Pages; *Sept. 2017 1902-1915*
- Hua, K.A.**, see Chan, T.N., *April 2017 784-797*
- Hua, W.**, Wang, Z., Wang, H., Zheng, K., and Zhou, X., Understand Short Texts by Harvesting and Analyzing Semantic Knowledge; *March 2017 499-512*
- Hua, W.**, see Zheng, B., *Sept. 2017 1846-1859*
- Huai, J.**, see Duan, L., *Nov. 2017 2402-2416*
- Huan, J.**, see Lan, C., *Aug. 2017 1681-1694*
- Huang, H.**, see Wei, X., *Feb. 2017 344-358*
- Huang, J.X.**, see Zhou, G., *June 2017 1226-1239*
- Huang, Q.**, Feng, J., Fang, Q., and Ng, W., Two Efficient Hashing Schemes for High-Dimensional Furthest Neighbor Search; *Dec. 2017 2772-2785*
- Huang, Y.**, see Wu, F., *July 2017 1370-1383*
- Huang, Z.**, see Yang, Y., *Sept. 2017 1834-1845*
- Huang, Z.**, see Shao, Y., *Oct. 2017 2210-2222*
- Hwang, S.**, see Wen, Y., *Aug. 2017 1639-1652*
- Hwang, S.**, see Ye, J., *May 2017 1073-1086*

I

Iglesias, C.A., see Zhu, G., *Jan. 2017 72-85*

J

- Jayaram, B.**, see Kumari, S., *Feb. 2017 373-386*
- Jensen, C.S.**, see Chen, L., *March 2017 556-571*
- Jensen, C.S.**, see Shang, S., *July 2017 1549-1562*
- Jensen, S.K.**, Pedersen, T.B., and Thomsen, C., Time Series Management Systems: A Survey; *Nov. 2017 2581-2600*
- Jia, J.**, see Lin, H., *Sept. 2017 1820-1833*
- Jia, X.**, see Xun, G., *Jan. 2017 38-56*
- Jia, Y.**, see Fang, B., *Sept. 2017 1793-1805*
- Jiang, B.**, Chen, H., Yuan, B., and Yao, X., Scalable Graph-Based Semi-Supervised Learning through Sparse Bayesian Model; *Dec. 2017 2758-2771*
- Jiang, M.**, see Gui, H., *Nov. 2017 2428-2441*
- Jiang, Z.**, Dou, Z., and Wen, J., Generating Query Facets Using Knowledge Bases; *Feb. 2017 315-329*
- Jin, C.**, see Mao, J., *Dec. 2017 2696-2709*
- Jin, L.**, Feng, L., Liu, G., and Wang, C., Personal Web Revisitation by Context and Content Keywords with Relevance Feedback; *July 2017 1508-1521*
- Jung, W.**, see Roh, H., *April 2017 743-756*

K

- Kalashnikov, D.V.**, see Altwajry, H., *Feb. 2017 402-417*
- Kalnis, P.**, see Shang, S., *July 2017 1549-1562*
- Kalnis, P.**, see Abdelhamid, E., *Dec. 2017 2710-2723*
- Kalra, A.**, see Wang, C., *Sept. 2017 2012-2025*
- Kan, M.**, see He, X., *Jan. 2017 57-71*
- Kang, C.**, see Hu, Y., *Sept. 2017 1902-1915*
- Kang, U.**, see Shin, K., *Jan. 2017 100-113*
- Kao, B.**, see He, Z., *Feb. 2017 286-299*
- Kaplan, L.**, see Gui, H., *Nov. 2017 2428-2441*
- Karpadne, A.**, Atluri, G., Faghmous, J.H., Steinbach, M., Banerjee, A., Ganguly, A., Shekhar, S., Samatova, N., and Kumar, V., Theory-Guided Data Science: A New Paradigm for Scientific Discovery from Data; *Oct. 2017 2318-2331*
- Katagiri, S.**, see Ohsaki, M., *Sept. 2017 1806-1819*
- Kaul, M.**, see Xu, C., *Aug. 2017 1709-1722*
- Kaymak, U.**, see Vandić, D., *May 2017 1004-1016*
- Khandelwal, A.**, see Mithal, V., *Nov. 2017 2484-2497*
- Kotidis, Y.**, see Georgoulas, K., *Jan. 2017 200-213*
- Koubarakis, M.**, see Zervakis, L., *Feb. 2017 418-432*
- Koutrika, G.**, see Papadimitriou, D., *Sept. 2017 1860-1873*
- Kozat, S.S.**, see Civek, B.C., *Dec. 2017 2786-2791*
- Krishnamurthy, V.**, see Hoiles, W., *July 2017 1426-1437*
- Ku, W.**, see Chen, H., *Feb. 2017 433-445*
- Kuang, Z.**, see Yu, Z., *Aug. 2017 1577-1590*
- Kumar, V.**, see Mithal, V., *Nov. 2017 2484-2497*
- Kumar, V.**, see Karpadne, A., *Oct. 2017 2318-2331*
- Kumari, S.**, and Jayaram, B., Measuring Concentration of Distances—An Effective and Efficient Empirical Index; *Feb. 2017 373-386*

L

- Labioud, L.**, see Allab, K., *Jan. 2017 2-16*
- Lan, C.**, Yang, Y., Li, X., Luo, B., and Huan, J., Learning Social Circles in Ego-Networks Based on Multi-View Network Structure; *Aug. 2017 1681-1694*
- Lappas, T.**, see Valkanas, G., *Sept. 2017 1971-1984*
- Lau, R.Y.K.**, see Li, Y., *July 2017 1438-1451*
- Lauw, H.W.**, see Tkachenko, M., *April 2017 771-783*
- Lawless, S.**, see Zhou, D., *July 2017 1536-1548*
- Le, T.**, see Li, J., *Feb. 2017 257-271*
- Le Van, T.**, Nijssen, S., van Leeuwen, M., and De Raedt, L., Semiring Rank Matrix Factorization; *Aug. 2017 1737-1750*
- Lee, M.L.**, see Li, F., *July 2017 1522-1535*

- Lehner, W.**, Gehrke, J., and Shim, K., Special Section on the International Conference on Data Engineering 2015; *March 2017 497-498*
- Lei, K.**, see Shao, Y., *Oct. 2017 2210-2222*
- Lemay, A.**, see Bagan, G., *April 2017 856-869*
- Li, A.**, see Fang, B., *Sept. 2017 1793-1805*
- Li, B.**, Vorobeychik, Y., Li, M., and Malin, B., Scalable Iterative Classification for Sanitizing Large-Scale Datasets; *March 2017 698-711*
- Li, C.**, see Ta, N., *April 2017 870-883*
- Li, C.**, see Cheng, B., *May 2017 950-962*
- Li, D.**, Zhang, S., Sun, X., Zhou, H., Li, S., and Li, X., Modeling Information Diffusion over Social Networks for Temporal Dynamic Prediction; *Sept. 2017 1985-1997*
- Li, F.**, Lee, M.L., and Hsu, W., Profiling Entities over Time in the Presence of Unreliable Sources; *July 2017 1522-1535*
- Li, G.**, see Ta, N., *April 2017 870-883*
- Li, G.**, see Hao, S., *April 2017 727-742*
- Li, G.**, see Zheng, B., *Sept. 2017 1846-1859*
- Li, G.**, see Zhu, T., *Aug. 2017 1619-1638*
- Li, H.**, see Wu, W., *Feb. 2017 446-457*
- Li, H.**, see Yu, C., *April 2017 712-726*
- Li, J.**, Ma, S., Le, T., Liu, L., and Liu, J., Causal Decision Trees; *Feb. 2017 257-271*
- Li, J.**, see Cheng, S., *April 2017 813-827*
- Li, J.**, see Han, X., *June 2017 1199-1211*
- Li, J.**, Sellis, T., Culpepper, J.S., He, Z., Liu, C., and Wang, J., Geo-Social Influence Spanning Maximization; *Aug. 2017 1653-1666*
- Li, J.**, see Zhu, R., *Nov. 2017 2522-2536*
- Li, L.**, Tong, H., Cao, N., Ehrlich, K., Lin, Y., and Buchler, N., Enhancing Team Composition in Professional Networks: Problem Definitions and Fast Solutions; *March 2017 613-626*
- Li, L.**, see Bai, J., *Dec. 2017 2655-2668*
- Li, M.**, see Li, B., *March 2017 698-711*
- Li, Q.**, see Bai, J., *Dec. 2017 2655-2668*
- Li, S.**, see Li, D., *Sept. 2017 1985-1997*
- Li, W.**, see Chang, L., *Feb. 2017 387-401*
- Li, W.**, Cao, J., Guan, J., Yiu, M.L., and Zhou, S., Efficient Retrieval of Bounded-Cost Informative Routes; *Oct. 2017 2182-2196*
- Li, X.**, see Lin, W., *March 2017 513-528*
- Li, X.**, see Chen, L., *March 2017 556-571*
- Li, X.**, Martinez, J., Eckert, M., and Rubio, G., Uncertainty Quantification in Mathematics-Embedded Ontologies Using Stochastic Reduced Order Model; *April 2017 912-920*
- Li, X.**, see Fang, B., *Sept. 2017 1793-1805*
- Li, X.**, see Li, D., *Sept. 2017 1985-1997*
- Li, X.**, Pi, T., Zhang, Z., Zhao, X., Wang, M., and Yu, P.S., Learning Bregman Distance Functions for Structural Learning to Rank; *Sept. 2017 1916-1927*
- Li, X.**, see Li, X., *Sept. 2017 1916-1927*
- Li, X.**, see Yang, Y., *Sept. 2017 1834-1845*
- Li, X.**, see Lan, C., *Aug. 2017 1681-1694*
- Li, Y.**, see Song, G., *Feb. 2017 359-372*
- Li, Y.**, see Yang, B., *Sept. 2017 2026-2039*
- Li, Y.**, see Wu, L., *July 2017 1480-1493*
- Li, Y.**, see Fan, Q., *July 2017 1398-1411*
- Li, Y.**, Zhang, L., Xu, Y., Yao, Y., Lau, R.Y.K., and Wu, Y., Enhancing Binary Classification by Modeling Uncertain Boundary in Three-Way Decisions; *July 2017 1438-1451*
- Li, Y.**, see Shi, C., *Jan. 2017 17-37*
- Li, Y.**, see U, L.H., *May 2017 991-1003*
- Li, Y.**, see Luo, Z., *Oct. 2017 2125-2139*
- Li, Y.**, see Vinzamuri, B., *Oct. 2017 2111-2124*
- Li, Z.**, see Gu, B., *Jan. 2017 186-199*
- Li, Z.**, Nie, F., Chang, X., and Yang, Y., Beyond Trace Ratio: Weighted Harmonic Mean of Trace Ratios for Multiclass Discriminant Analysis; *Oct. 2017 2100-2110*
- Liakata, M.**, see Zubiaga, A., *Sept. 2017 2053-2066*
- Lian, X.**, see Yuan, Y., *June 2017 1212-1225*
- Liang, J.**, Xiao, Y., Wang, H., Zhang, Y., and Wang, W., Probase+: Inferring Missing Links in Conceptual Taxonomies; *June 2017 1281-1295*
- Liang, W.**, see Xu, W., *May 2017 1017-1030*
- Lin, C.**, see Hsueh, Y., *May 2017 963-976*
- Lin, H.**, Jia, J., Qiu, J., Zhang, Y., Shen, G., Xie, L., Tang, J., Feng, L., and Chua, T., Detecting Stress Based on Social Interactions in Social Networks; *Sept. 2017 1820-1833*
- Lin, K.**, see Yan, S., *Oct. 2017 2086-2099*
- Lin, W.**, Xiao, X., Xie, X., and Li, X., Network Motif Discovery: A GPU Approach; *March 2017 513-528*
- Lin, X.**, see Wang, X., *Feb. 2017 243-256*
- Lin, X.**, see Wang, X., *March 2017 599-612*
- Lin, X.**, see Lu, J., *March 2017 572-585*
- Lin, X.**, New EIC Editorial; *March 2017 495-496*
- Lin, X.**, see Han, Y., *Sept. 2017 1874-1887*
- Lin, X.**, Peng, Y., Choi, B., and Xu, J., Human-Powered Data Cleaning for Probabilistic Reachability Queries on Uncertain Graphs; *July 2017 1452-1465*
- Lin, X.**, see Pei, J., *Jan. 2017 1*
- Lin, X.**, Xu, J., Hu, H., and Fan, Z., Reducing Uncertainty of Probabilistic Top-k Ranking via Pairwise Crowdsourcing; *Oct. 2017 2290-2303*
- Lin, Y.**, see Li, L., *March 2017 613-626*
- Link, S.**, see Brown, P., *March 2017 670-682*
- Liu, A.**, see Gu, B., *Jan. 2017 186-199*
- Liu, C.**, Xiong, H., Papadimitriou, S., Ge, Y., and Xiao, K., A Proactive Workflow Model for Healthcare Operation and Management; *March 2017 586-598*
- Liu, C.**, see Wang, J., *Sept. 2017 1928-1942*
- Liu, C.**, see Li, J., *Aug. 2017 1653-1666*
- Liu, C.**, see Xu, W., *May 2017 1017-1030*
- Liu, F.**, see Hu, G., *Jan. 2017 114-127*
- Liu, F.**, see Aiello, L.M., *Dec. 2017 2682-2695*
- Liu, G.**, see Jin, L., *July 2017 1508-1521*
- Liu, G.**, see Gu, B., *Jan. 2017 186-199*
- Liu, H.**, Wu, J., Liu, T., Tao, D., and Fu, Y., Spectral Ensemble Clustering via Weighted K-Means: Theoretical and Practical Evidence; *May 2017 1129-1143*
- Liu, H.**, see Wang, M., *May 2017 1101-1114*
- Liu, H.**, see Ranganath, S., *Oct. 2017 2197-2209*
- Liu, J.**, see Li, J., *Feb. 2017 257-271*
- Liu, J.**, see Zhou, D., *July 2017 1536-1548*
- Liu, J.**, see Yu, Z., *Aug. 2017 1577-1590*
- Liu, J.**, see Gui, H., *Nov. 2017 2428-2441*
- Liu, L.**, see Li, J., *Feb. 2017 257-271*
- Liu, L.**, see Han, B., *May 2017 936-949*
- Liu, L.**, see Luo, Z., *Oct. 2017 2125-2139*
- Liu, Q.**, Wu, S., and Wang, L., Multi-Behavioral Sequential Prediction with Recurrent Log-Bilinear Model; *June 2017 1254-1267*
- Liu, Q.**, see Wu, L., *June 2017 1240-1253*
- Liu, R.**, see Mior, M.J., *Oct. 2017 2275-2289*
- Liu, S.**, and Wang, S., Trajectory Community Discovery and Recommendation by Multi-Source Diffusion Modeling; *April 2017 898-911*
- Liu, T.**, see Liu, H., *May 2017 1129-1143*
- Liu, W.**, see Mu, Y., *Feb. 2017 458-471*
- Liu, X.**, see Mu, Y., *Feb. 2017 458-471*
- Liu, X.**, see Yang, B., *Sept. 2017 2026-2039*
- Liu, Y.**, Ester, M., Qian, Y., Hu, B., and Cheung, D.W., Microscopic and Macroscopic Spatio-Temporal Topic Models for Check-in Data; *Sept. 2017 1957-1970*
- Liu, Y.**, see Chen, Y., *Nov. 2017 2470-2483*
- Liu, Z.**, Wang, C., and Chen, Y., Keyword Search on Temporal Graphs; *Aug. 2017 1667-1680*
- Liu, Z.**, see Shao, Y., *Oct. 2017 2210-2222*
- Lo, E.**, see He, Z., *Feb. 2017 286-299*
- Lu, A.**, see Wu, L., *July 2017 1480-1493*
- Lu, C.**, see Zhao, L., *May 2017 1059-1072*
- Lu, J.**, Gong, Z., and Lin, X., A Novel and Fast SimRank Algorithm; *March 2017 572-585*
- Lu, J.**, see Xu, J., *June 2017 1296-1309*
- Lu, J.**, see Xuan, J., *July 2017 1357-1369*
- Lu, J.**, see Yao, Y., *Aug. 2017 1723-1736*
- Lu, W.**, see Zhuang, Y., *May 2017 977-990*
- Luo, B.**, see Lan, C., *Aug. 2017 1681-1694*
- Luo, L.**, see Xu, J., *June 2017 1268-1280*
- Luo, R.**, see Xu, Y., *June 2017 1158-1171*
- Luo, S.**, see Hu, J., *Nov. 2017 2455-2469*
- Luo, X.**, see Xuan, J., *July 2017 1357-1369*
- Luo, Y.**, see Song, D., *Jan. 2017 143-156*
- Luo, Z.**, Liu, L., Yin, J., Li, Y., and Wu, Z., Deep Learning of Graphs with Ngram Convolutional Neural Networks; *Oct. 2017 2125-2139*

M

- Ma, S.**, see Li, J., *Feb. 2017 257-271*
Ma, S., see Duan, L., *Nov. 2017 2402-2416*
Ma, S., see Chen, Y., *Nov. 2017 2470-2483*
Ma, T., see Duan, L., *Nov. 2017 2402-2416*
Ma, X., and Dong, D., Evolutionary Nonnegative Matrix Factorization Algorithms for Community Detection in Dynamic Networks; *May 2017 1045-1058*
Maaradj, A., Dumas, M., Rosa, M.L., and Ostovar, A., Detecting Sudden and Gradual Drifts in Business Processes from Execution Traces; *Oct. 2017 2140-2154*
Mahmood, A., Small, M., Al-Maadeed, S.A., and Rajpoot, N., Using Geodesic Space Density Gradients for Network Community Detection; *April 2017 921-935*
Malensek, M., see Buddhika, T., *Nov. 2017 2552-2566*
Malin, B., see Li, B., *March 2017 698-711*
Mamoulis, N., see Terrovitis, M., *July 2017 1466-1479*
Mao, J., Wang, T., Jin, C., and Zhou, A., Feature Grouping-Based Outlier Detection Upon Streaming Trajectories; *Dec. 2017 2696-2709*
Mao, X., see Wei, X., *Feb. 2017 344-358*
Mao, Z., see Wang, Q., *Dec. 2017 2724-2743*
Markl, V., see Xu, C., *Aug. 2017 1709-1722*
Martinez, A.M., see Chen, S., *Jan. 2017 172-185*
Martinez, J., see Li, X., *April 2017 912-920*
Mathioudakis, M., see Gionis, A., *March 2017 529-542*
Matsuda, K., see Ohsaki, M., *Sept. 2017 1806-1819*
Mehrotra, S., see Altwaijry, H., *Feb. 2017 402-417*
Meng, R., Chen, L., Tong, Y., and Zhang, C., Knowledge Base Semantic Integration Using Crowdsourcing; *May 2017 1087-1100*
Meng, X., see Wang, C., *Dec. 2017 2669-2681*
Miao, C., see Hai, Z., *June 2017 1172-1185*
Min, H., see Xu, Y., *June 2017 1158-1171*
Min, J., see Park, Y., *May 2017 1031-1044*
Minor, B.D., Doppa, J.R., and Cook, D.J., Learning Activity Predictors from Sensor Data: Algorithms, Evaluation, and Applications; *Dec. 2017 2744-2757*
Mior, M.J., Salem, K., Aboulnaga, A., and Liu, R., NoSE: Schema Design for NoSQL Applications; *Oct. 2017 2275-2289*
Mistry, S., see Neiat, A.G., *July 2017 1384-1397*
Mithal, V., Nayak, G., Khandelwal, A., Kumar, V., Oza, N.C., and Nemani, R., RAPT: Rare Class Prediction in Absence of True Labels; *Nov. 2017 2484-2497*
Moon, I., see Shin, S., *Feb. 2017 330-343*
Mouratidis, K., see U, L.H., *May 2017 991-1003*
Mu, X., Ting, K.M., and Zhou, Z., Classification Under Streaming Emerging New Classes: A Solution Using Completely-Random Trees; *Aug. 2017 1605-1618*
Mu, Y., Liu, W., Liu, X., and Fan, W., Stochastic Gradient Made Stable: A Manifold Propagation Approach for Large-Scale Optimization; *Feb. 2017 458-471*
Mukherjee, A.P., Xu, P., and Tirthapura, S., Enumeration of Maximal Cliques from an Uncertain Graph; *March 2017 543-555*
Murthy, C.A., Bridging Feature Selection and Extraction: Compound Feature Generation; *April 2017 757-770*
Mylopoulos, J., see Papadimitriou, D., *Sept. 2017 1860-1873*

N

- Nadif, M.**, see Ailem, M., *July 2017 1563-1576*
Nadif, M., see Allab, K., *Jan. 2017 2-16*
Nagaraja, R., see Das, M., *April 2017 842-855*
Nayak, G., see Mithal, V., *Nov. 2017 2484-2497*
Neiat, A.G., Bouguettaya, A., Sellis, T., and Mistry, S., Crowdsourced Coverage as a Service: Two-Level Composition of Sensor Cloud Services; *July 2017 1384-1397*
Nemani, R., see Mithal, V., *Nov. 2017 2484-2497*
Nemati, S., see Xu, H., *Jan. 2017 157-171*
Ng, W., see Huang, Q., *Dec. 2017 2772-2785*
Nie, F., see Hou, C., *Sept. 2017 1998-2011*
Nie, F., see Li, Z., *Oct. 2017 2100-2110*
Nie, F., see Zhuge, W., *Oct. 2017 2347-2359*
Nie, L., see Wei, X., *Feb. 2017 344-358*

- Nie, L.**, Wei, X., Zhang, D., Wang, X., Gao, Z., and Yang, Y., Data-Driven Answer Selection in Community QA Systems; *June 2017 1186-1198*
Nijssen, S., see Le Van, T., *Aug. 2017 1737-1750*
Norick, B., see Gui, H., *Nov. 2017 2428-2441*
Nutanong, S., see Yu, C., *April 2017 712-726*

O

- Ohsaki, M.**, Wang, P., Matsuda, K., Katagiri, S., Watanabe, H., and Ralescu, A., Confusion-Matrix-Based Kernel Logistic Regression for Imbalanced Data Classification; *Sept. 2017 1806-1819*
Omicieski, E., see Han, B., *May 2017 936-949*
Osindero, S., see Aiello, L.M., *Dec. 2017 2682-2695*
Ostovar, A., see Maaradj, A., *Oct. 2017 2140-2154*
Ouyang, H., see Wang, Y., *Nov. 2017 2442-2454*
Oza, N.C., see Mithal, V., *Nov. 2017 2484-2497*

P

- Pallickara, S.**, see Buddhika, T., *Nov. 2017 2552-2566*
Pallickara, S.L., see Buddhika, T., *Nov. 2017 2552-2566*
Pan, S.J., see Xu, Y., *June 2017 1158-1171*
Pandey, P.K., and Adhikari, B., A Parametric Model Approach for Structural Reconstruction of Scale-Free Networks; *Oct. 2017 2072-2085*
Papadimitriou, D., Koutrika, G., Velegrakis, Y., and Mylopoulos, J., Finding Related Forum Posts through Content Similarity over Intention-Based Segmentation; *Sept. 2017 1860-1873*
Papadimitriou, S., see Liu, C., *March 2017 586-598*
Park, J., see Yeo, J., *May 2017 1073-1086*
Park, S., see Roh, H., *April 2017 743-756*
Park, Y., Min, J., and Shim, K., Efficient Processing of Skyline Queries Using MapReduce; *May 2017 1031-1044*
Pedersen, T.B., see Jensen, S.K., *Nov. 2017 2581-2600*
Pei, J., and Lin, X., Editorial; *Jan. 2017 1*
Pei, J., see Yang, Y., *Nov. 2017 2615-2628*
Pei, J., see Wang, Z., *Nov. 2017 2374-2387*
Peng, W., see Wen, Y., *Aug. 2017 1639-1652*
Peng, Y., see Lin, X., *July 2017 1452-1465*
Pi, T., see Li, X., *Sept. 2017 1916-1927*
Piccolo, A., see Guzzo, A., *May 2017 1115-1128*
Piovesan, L., see Terenziani, P., *Sept. 2017 2067-2071*
Poulis, G., see Terrovitis, M., *July 2017 1466-1479*
Procter, R., see Zubiaga, A., *Sept. 2017 2053-2066*
Pugliese, A., see Guzzo, A., *May 2017 1115-1128*

Q

- Qahtan, A.**, Wang, S., and Zhang, X., KDE-Track: An Efficient Dynamic Density Estimator for Data Streams; *March 2017 642-655*
Qian, Y., see Liu, Y., *Sept. 2017 1957-1970*
Qian, Y., see Xu, H., *Oct. 2017 2223-2235*
Qin, B., and Yu, J.X., Efficient Sensitivity Analysis for Inequality Queries in Probabilistic Databases; *Jan. 2017 86-99*
Qin, L., see Chang, L., *Feb. 2017 387-401*
Qiu, J., see Lin, H., *Sept. 2017 1820-1833*
Qiu, Z., see Wang, H., *Oct. 2017 2263-2274*
Qu, Y., see Cheng, G., *Nov. 2017 2388-2401*

R

- Rahman, M.**, Carbanar, B., and Chau, D.H., Search Rank Fraud and Malware Detection in Google Play; *June 2017 1329-1342*
Rahman, M., see Rahman, M., *June 2017 1329-1342*
Rajpoot, N., see Mahmood, A., *April 2017 921-935*
Ralescu, A., see Ohsaki, M., *Sept. 2017 1806-1819*
Ramakrishnan, N., see Zhao, L., *May 2017 1059-1072*
Ranganath, S., Wang, S., Hu, X., Tang, J., and Liu, H., Facilitating Time Critical Information Seeking in Social Media; *Oct. 2017 2197-2209*
Reddy, C.K., see Vinzamuri, B., *Oct. 2017 2111-2124*

Redi, M., *see* Aiello, L.M., *Dec. 2017 2682-2695*
Rezvani, M., *see* Xu, W., *May 2017 1017-1030*
Roh, H., Shin, M., Jung, W., and Park, S., Advanced Block Nested Loop Join for Extending SSD Lifetime; *April 2017 743-756*
Role, F., *see* Ailem, M., *July 2017 1563-1576*
Rosa, M.L., *see* Conforti, R., *Feb. 2017 300-314*
Rosa, M.L., *see* Maaradji, A., *Oct. 2017 2140-2154*
Rubio, G., *see* Li, X., *April 2017 912-920*
Rullo, A., *see* Guzzo, A., *May 2017 1115-1128*

S

Sacca, D., *see* Guzzo, A., *May 2017 1115-1128*
Sadoghi, M., *see* Abdelhamid, E., *Dec. 2017 2710-2723*
Sael, L., *see* Shin, K., *Jan. 2017 100-113*
Salem, K., *see* Mior, M.J., *Oct. 2017 2275-2289*
Samatova, N., *see* Karpatne, A., *Oct. 2017 2318-2331*
Schifanella, R., *see* Aiello, L.M., *Dec. 2017 2682-2695*
Sellis, T., *see* Neiat, A.G., *July 2017 1384-1397*
Sellis, T., *see* Li, J., *Aug. 2017 1653-1666*
Seneviratne, A., *see* Surian, D., *Aug. 2017 1591-1604*
Seneviratne, S., *see* Surian, D., *Aug. 2017 1591-1604*
Shang, S., Chen, L., Jensen, C.S., Wen, J., and Kalnis, P., Searching Trajectories by Regions of Interest; *July 2017 1549-1562*
Shao, F., *see* Cheng, G., *Nov. 2017 2388-2401*
Shao, J., *see* Hu, G., *Jan. 2017 114-127*
Shao, Y., Lei, K., Chen, L., Huang, Z., Cui, B., Liu, Z., Tong, Y., and Xu, J., Fast Parallel Path Concatenation for Graph Extraction; *Oct. 2017 2210-2222*
Shekhar, S., *see* Karpatne, A., *Oct. 2017 2318-2331*
Shen, F., *see* Yang, Y., *Sept. 2017 1834-1845*
Shen, G., *see* Lin, H., *Sept. 2017 1820-1833*
Shen, H.T., *see* Yang, Y., *Sept. 2017 1834-1845*
Shen, H.T., *see* Hu, G., *Jan. 2017 114-127*
Shen, J., *see* Zhu, L., *Feb. 2017 472-486*
Shi, C., Li, Y., Zhang, J., Sun, Y., and Yu, P.S., A Survey of Heterogeneous Information Network Analysis; *Jan. 2017 17-37*
Shi, J., *see* Gu, H., *Oct. 2017 2236-2248*
Shim, K., *see* Lehner, W., *March 2017 497-498*
Shim, K., *see* Park, Y., *May 2017 1031-1044*
Shin, K., Sael, L., and Kang, U., Fully Scalable Methods for Distributed Tensor Factorization; *Jan. 2017 100-113*
Shin, M., *see* Roh, H., *April 2017 743-756*
Shin, S., and Moon, I., Guided HTM: Hierarchical Topic Model with Dirichlet Forest Priors; *Feb. 2017 330-343*
Skidopoulos, S., *see* Zervakis, L., *Feb. 2017 418-432*
Skidopoulos, S., *see* Terrovitis, M., *July 2017 1466-1479*
Small, M., *see* Mahmood, A., *April 2017 921-935*
Song, D., Luo, Y., and Heflin, J., Linking Heterogeneous Data in the Semantic Web Using Scalable and Domain-Independent Candidate Selection; *Jan. 2017 143-156*
Song, G., Li, Y., Chen, X., He, X., and Tang, J., Influential Node Tracking on Dynamic Social Network: An Interchange Greedy Approach; *Feb. 2017 359-372*
Song, H., *see* Xu, Y., *June 2017 1158-1171*
Song, J., Xiao, J., Wu, F., Wu, H., Zhang, T., Zhang, Z.M., and Zhu, W., Hierarchical Contextual Attention Recurrent Neural Network for Map Query Suggestion; *Sept. 2017 1888-1901*
Song, L., *see* Wang, B., *Oct. 2017 2168-2181*
Song, S., Gao, Y., Wang, C., Zhu, X., Wang, J., and Yu, P.S., Matching Heterogeneous Events with Patterns; *Aug. 2017 1695-1708*
Soto, J., *see* Xu, C., *Aug. 2017 1709-1722*
Spiotta, M., Terenziani, P., and Dupre, D.T., Temporal Conformance Analysis and Explanation of Clinical Guidelines Execution: An Answer Set Programming Approach; *Nov. 2017 2567-2580*
Steinbach, M., *see* Karpatne, A., *Oct. 2017 2318-2331*
Su, H., *see* Zheng, B., *Sept. 2017 1846-1859*
Su, J., Zhu, Q., Wei, H., and Yu, J.X., Reachability Querying: Can It Be Even Faster?; *March 2017 683-697*
Su, S., *see* Cheng, X., *Sept. 2017 1779-1792*
Sun, M., *see* Chen, H., *Feb. 2017 433-445*
Sun, Q., *see* Zhao, L., *May 2017 1059-1072*
Sun, X., *see* Li, D., *Sept. 2017 1985-1997*
Sun, Y., *see* Yuan, Y., *June 2017 1212-1225*
Sun, Y., *see* Shi, C., *Jan. 2017 17-37*

Surian, D., Seneviratne, S., Seneviratne, A., and Chawla, S., App Miscategorization Detection: A Case Study on Google Play; *Aug. 2017 1591-1604*
Svetlichnaya, S., *see* Aiello, L.M., *Dec. 2017 2682-2695*

T

Ta, N., Li, G., Xie, Y., Li, C., Hao, S., and Feng, J., Signature-Based Trajectory Similarity Join; *April 2017 870-883*
Ta, N., *see* Hao, S., *April 2017 727-742*
Tan, K., *see* Guo, L., *March 2017 627-641*
Tan, K., *see* Fan, Q., *July 2017 1398-1411*
Tan, M., *see* Wu, Q., *July 2017 1494-1507*
Tan, P., *see* Xu, J., *June 2017 1268-1280*
Tang, C., *see* Zhang, M., *Oct. 2017 2155-2167*
Tang, J., *see* Song, G., *Feb. 2017 359-372*
Tang, J., *see* Lin, H., *Sept. 2017 1820-1833*
Tang, J., *see* Hu, Y., *Sept. 2017 1902-1915*
Tang, J., *see* Ranganath, S., *Oct. 2017 2197-2209*
Tang, K., *see* Zhong, J., *Dec. 2017 2643-2654*
Tang, L., *see* Chen, H., *Feb. 2017 433-445*
Tang, N., *see* Hao, S., *April 2017 727-742*
Tang, S., *see* Wu, F., *Oct. 2017 2304-2317*
Tao, D., *see* Liu, H., *May 2017 1129-1143*
Tao, D., *see* Zhao, N., *Nov. 2017 2498-2509*
Tao, F., *see* Gui, H., *Nov. 2017 2428-2441*
Tao, H., *see* Hou, C., *Sept. 2017 1998-2011*
Tao, X., *see* Xu, J., *June 2017 1296-1309*
Temizel, T.T., *see* Batu, B.B., *Dec. 2017 2629-2642*
Terenziani, P., Andolina, A., and Piovesan, L., Managing Temporal Constraints with Preferences: Representation, Reasoning, and Querying; *Sept. 2017 2067-2071*
Terenziani, P., *see* Spiotta, M., *Nov. 2017 2567-2580*
Terrovitis, M., Poulis, G., Mamoulis, N., and Skidopoulos, S., Local Suppression and Splitting Techniques for Privacy Preserving Publication of Trajectories; *July 2017 1466-1479*
Thomsen, C., *see* Jensen, S.K., *Nov. 2017 2581-2600*
Ting, K.M., *see* Mu, X., *Aug. 2017 1605-1618*
Tirthapura, S., *see* Mukherjee, A.P., *March 2017 543-555*
Tkachenko, M., and Lauw, H.W., Comparative Relation Generative Model; *April 2017 771-783*
Tonello, N., *see* Catena, M., *July 2017 1412-1425*
Tong, H., *see* Li, L., *March 2017 613-626*
Tong, H., *see* Xu, J., *June 2017 1296-1309*
Tong, H., *see* Yao, Y., *Aug. 2017 1723-1736*
Tong, H., *see* Chen, C., *Oct. 2017 2332-2346*
Tong, Y., *see* Meng, R., *May 2017 1087-1100*
Tong, Y., *see* Shao, Y., *Oct. 2017 2210-2222*
Tryfonopoulos, C., *see* Zervakis, L., *Feb. 2017 418-432*
Tsakalidis, A., *see* Zubiaga, A., *Sept. 2017 2053-2066*
Tsang, I.W., *see* Wang, H., *Jan. 2017 128-142*

U

U, L.H., Zhang, J., Mouratidis, K., and Li, Y., Continuous Top-k Monitoring on Document Streams; *May 2017 991-1003*
Ukkonen, A., *see* Gionis, A., *March 2017 529-542*
Ukkusuri, S.V., *see* Zhan, X., *Feb. 2017 272-285*

V

Valkanas, G., Lappas, T., and Gunopoulos, D., Mining Competitors from Large Unstructured Datasets; *Sept. 2017 1971-1984*
van Leeuwen, M., *see* Le Van, T., *Aug. 2017 1737-1750*
Vandic, D., Aanen, S., Frasinca, F., and Kaymak, U., Dynamic Facet Ordering for Faceted Product Search Engines; *May 2017 1004-1016*
Velegarakis, Y., *see* Papadimitriou, D., *Sept. 2017 1860-1873*
Vinzamuri, B., Li, Y., and Reddy, C.K., Pre-Processing Censored Survival Data Using Inverse Covariance Matrix Based Calibration; *Oct. 2017 2111-2124*
Vlachou, A., *see* Georgoulas, K., *Jan. 2017 200-213*
Vorobeychik, Y., *see* Li, B., *March 2017 698-711*
Voss, A., *see* Zubiaga, A., *Sept. 2017 2053-2066*

W

- Wang, B., *see* Guo, S., *April 2017 884-897*
- Wang, B., *see* Zhu, R., *June 2017 1310-1328*
- Wang, B., *see* Wang, J., *Sept. 2017 1928-1942*
- Wang, B., *see* Zubiaga, A., *Sept. 2017 2053-2066*
- Wang, B., *see* Wang, Q., *Dec. 2017 2724-2743*
- Wang, B., Chen, G., Fu, L., Song, L., and Wang, X., DRIMUX: Dynamic Rumor Influence Minimization with User Experience in Social Networks; *Oct. 2017 2168-2181*
- Wang, C., *see* Yu, C., *April 2017 712-726*
- Wang, C., Kalra, A., Zhou, L., Borcea, C., and Chen, Y., Probabilistic Models for Ad Viewability Prediction on the Web; *Sept. 2017 2012-2025*
- Wang, C., *see* Amalaman, P.K., *Sept. 2017 2040-2052*
- Wang, C., *see* Jin, L., *July 2017 1508-1521*
- Wang, C., *see* Liu, Z., *Aug. 2017 1667-1680*
- Wang, C., *see* Song, S., *Aug. 2017 1695-1708*
- Wang, C., Meng, X., Guo, Q., Weng, Z., and Yang, C., Automating Characterization Deployment in Distributed Data Stream Management Systems; *Dec. 2017 2669-2681*
- Wang, D., *see* He, X., *Jan. 2017 57-71*
- Wang, F., *see* Akbari, M., *Oct. 2017 2360-2373*
- Wang, G., *see* Zhu, R., *June 2017 1310-1328*
- Wang, G., *see* Yuan, Y., *June 2017 1212-1225*
- Wang, H., *see* Chen, H., *Feb. 2017 433-445*
- Wang, H., *see* Wu, W., *Feb. 2017 446-457*
- Wang, H., *see* Hua, W., *March 2017 499-512*
- Wang, H., *see* Liang, J., *June 2017 1281-1295*
- Wang, H., Zhang, P., Zhu, X., Tsang, I.W., Chen, L., Zhang, C., and Wu, X., Incremental Subgraph Feature Selection for Graph Classification; *Jan. 2017 128-142*
- Wang, H., *see* Zhuang, Y., *May 2017 977-990*
- Wang, H., *see* Yin, H., *Nov. 2017 2537-2551*
- Wang, H., Hu, W., Qiu, Z., and Du, B., Nodes' Evolution Diversity and Link Prediction in Social Networks; *Oct. 2017 2263-2274*
- Wang, J., Wei, J., Yang, Z., and Wang, S., Feature Selection by Maximizing Independent Classification Information; *April 2017 828-841*
- Wang, J., Yang, X., Wang, B., and Liu, C., LS-Join: Local Similarity Join on String Collections; *Sept. 2017 1928-1942*
- Wang, J., *see* Li, J., *Aug. 2017 1653-1666*
- Wang, J., *see* Song, S., *Aug. 2017 1695-1708*
- Wang, L., *see* Guo, S., *April 2017 884-897*
- Wang, L., *see* Liu, Q., *June 2017 1254-1267*
- Wang, L., *see* Han, Y., *Sept. 2017 1874-1887*
- Wang, L., *see* Chen, S., *Jan. 2017 172-185*
- Wang, M., *see* Wu, L., *June 2017 1240-1253*
- Wang, M., *see* Hong, R., *June 2017 1343-1356*
- Wang, M., *see* Li, X., *Sept. 2017 1916-1927*
- Wang, M., Fu, W., Hao, S., Liu, H., and Wu, X., Learning on Big Graph: Label Inference and Regularization with Anchor Hierarchy; *May 2017 1101-1114*
- Wang, P., *see* Ohsaki, M., *Sept. 2017 1806-1819*
- Wang, Q., *see* Guo, S., *April 2017 884-897*
- Wang, Q., Mao, Z., Wang, B., and Guo, L., Knowledge Graph Embedding: A Survey of Approaches and Applications; *Dec. 2017 2724-2743*
- Wang, S., *see* Qahtan, A., *March 2017 642-655*
- Wang, S., *see* Wang, J., *April 2017 828-841*
- Wang, S., *see* Liu, S., *April 2017 898-911*
- Wang, S., *see* Ranganath, S., *Oct. 2017 2197-2209*
- Wang, T., *see* Mao, J., *Dec. 2017 2696-2709*
- Wang, W., *see* Liang, J., *June 2017 1281-1295*
- Wang, W., *see* Yin, H., *Nov. 2017 2537-2551*
- Wang, W., *see* Xu, H., *Oct. 2017 2223-2235*
- Wang, X., Zhang, Y., Zhang, W., Lin, X., and Chen, C., Bring Order into the Samples: A Novel Scalable Method for Influence Maximization; *Feb. 2017 243-256*
- Wang, X., Zhang, Y., Zhang, W., and Lin, X., Efficient Distance-Aware Influence Maximization in Geo-Social Networks; *March 2017 599-612*
- Wang, X., *see* Nie, L., *June 2017 1186-1198*
- Wang, X., *see* Gu, H., *Oct. 2017 2236-2248*
- Wang, X., *see* Wang, B., *Oct. 2017 2168-2181*
- Wang, Y., *see* Hu, G., *Jan. 2017 114-127*
- Wang, Y., Ouyang, H., Deng, H., and Chang, Y., Learning Online Trends for Interactive Query Auto-Completion; *Nov. 2017 2442-2454*
- Wang, Z., *see* Hua, W., *March 2017 499-512*
- Wang, Z., *see* Yang, Y., *Nov. 2017 2615-2628*
- Wang, Z., Yang, Y., Pei, J., Chu, L., and Chen, E., Activity Maximization by Effective Information Diffusion in Social Networks; *Nov. 2017 2374-2387*
- Watanabe, H., *see* Ohsaki, M., *Sept. 2017 1806-1819*
- Webb, G.I., *see* Chen, S., *Jan. 2017 172-185*
- Wei, H., *see* Su, J., *March 2017 683-697*
- Wei, J., *see* Wang, J., *April 2017 828-841*
- Wei, X., Huang, H., Nie, L., Zhang, H., Mao, X., and Chua, T., I Know What You Want to Express: Sentence Element Inference by Incorporating External Knowledge Base; *Feb. 2017 344-358*
- Wei, X., *see* Nie, L., *June 2017 1186-1198*
- Wen, J., *see* Jiang, Z., *Feb. 2017 315-329*
- Wen, J., *see* Shang, S., *July 2017 1549-1562*
- Wen, Y., Yeo, J., Peng, W., and Hwang, S., Efficient Keyword-Aware Representative Travel Route Recommendation; *Aug. 2017 1639-1652*
- Weng, Z., *see* Wang, C., *Dec. 2017 2669-2681*
- Wong, H., *see* Yu, Z., *Aug. 2017 1577-1590*
- Wong, P., *see* He, Z., *Feb. 2017 286-299*
- Wong, T., and Yang, N., Dependency Analysis of Accuracy Estimates in k-Fold Cross Validation; *Nov. 2017 2417-2427*
- Wu, F., *see* Song, J., *Sept. 2017 1888-1901*
- Wu, F., Yuan, Z., and Huang, Y., Collaboratively Training Sentiment Classifiers for Multiple Domains; *July 2017 1370-1383*
- Wu, F., *see* Zhuang, Y., *May 2017 977-990*
- Wu, F., Duan, X., Xiao, J., Zhao, Z., Tang, S., Zhang, Y., and Zhuang, Y., Temporal Interaction and Causal Influence in Community-Based Question Answering; *Oct. 2017 2304-2317*
- Wu, H., *see* Song, J., *Sept. 2017 1888-1901*
- Wu, H., *see* Wu, Q., *July 2017 1494-1507*
- Wu, J., *see* Liu, H., *May 2017 1129-1143*
- Wu, L., Ge, Y., Liu, Q., Chen, E., Hong, R., Du, J., and Wang, M., Modeling the Evolution of Users' Preferences and Social Links in Social Networking Services; *June 2017 1240-1253*
- Wu, L., Wu, X., Lu, A., and Li, Y., On Spectral Analysis of Signed and Dispute Graphs: Application to Community Structure; *July 2017 1480-1493*
- Wu, Q., *see* Xu, Y., *June 2017 1158-1171*
- Wu, Q., Wu, H., Zhou, X., Tan, M., Xu, Y., Yan, Y., and Hao, T., Online Transfer Learning with Multiple Homogeneous or Heterogeneous Sources; *July 2017 1494-1507*
- Wu, S., *see* Liu, Q., *June 2017 1254-1267*
- Wu, W., Li, H., Wang, H., and Zhu, K.Q., Semantic Bootstrapping: A Theoretical Perspective; *Feb. 2017 446-457*
- Wu, W., *see* Guo, L., *March 2017 627-641*
- Wu, W., *see* Xu, H., *Jan. 2017 157-171*
- Wu, X., *see* Hong, R., *June 2017 1343-1356*
- Wu, X., *see* Fang, B., *Sept. 2017 1793-1805*
- Wu, X., *see* Wu, L., *July 2017 1480-1493*
- Wu, X., *see* Zhou, D., *July 2017 1536-1548*
- Wu, X., *see* Wang, H., *Jan. 2017 128-142*
- Wu, X., *see* Wang, M., *May 2017 1101-1114*
- Wu, X., *see* Hu, J., *Nov. 2017 2455-2469*
- Wu, Y., *see* Li, Y., *July 2017 1438-1451*
- Wu, Z., *see* Luo, Z., *Oct. 2017 2125-2139*
- Wylot, M., Cudre-Mauroux, P., Hauswirth, M., and Groth, P., Storing, Tracking, and Querying Provenance in Linked Data; *Aug. 2017 1751-1764*

X

- Xiao, J., *see* Song, J., *Sept. 2017 1888-1901*
- Xiao, J., *see* Zhuang, Y., *May 2017 977-990*
- Xiao, J., *see* Wu, F., *Oct. 2017 2304-2317*
- Xiao, K., *see* Liu, C., *March 2017 586-598*
- Xiao, X., *see* Lin, W., *March 2017 513-528*
- Xiao, Y., *see* Liang, J., *June 2017 1281-1295*
- Xie, L., *see* Zhu, L., *Feb. 2017 472-486*
- Xie, L., *see* Lin, H., *Sept. 2017 1820-1833*
- Xie, X., *see* Lin, W., *March 2017 513-528*
- Xie, Y., *see* Ta, N., *April 2017 870-883*
- Xiong, H., *see* Liu, C., *March 2017 586-598*
- Xiong, H., *see* Xu, Y., *June 2017 1158-1171*

- Xu, C.**, Holzemer, M., Kaul, M., Soto, J., and Markl, V., On Fault Tolerance for Distributed Iterative Dataflow Processing; *Aug. 2017 1709-1722*
- Xu, F.**, see Yao, Y., *Aug. 2017 1723-1736*
- Xu, H.**, Wu, W., Nemati, S., and Zha, H., Patient Flow Prediction via Discriminative Learning of Mutually-Correcting Processes; *Jan. 2017 157-171*
- Xu, H.**, Wang, W., and Qian, Y., Fusing Complete Monotonic Decision Trees; *Oct. 2017 2223-2235*
- Xu, J.**, see Zhang, J., *April 2017 798-812*
- Xu, J.**, Tan, P., Zhou, J., and Luo, L., Online Multi-Task Learning Framework for Ensemble Forecasting; *June 2017 1268-1280*
- Xu, J.**, Yao, Y., Tong, H., Tao, X., and Lu, J., RAPARE: A Generic Strategy for Cold-Start Rating Prediction Problem; *June 2017 1296-1309*
- Xu, J.**, see Lin, X., *July 2017 1452-1465*
- Xu, J.**, see Lin, X., *Oct. 2017 2290-2303*
- Xu, J.**, see Shao, Y., *Oct. 2017 2210-2222*
- Xu, P.**, see Mukherjee, A.P., *March 2017 543-555*
- Xu, R.Y.D.**, see Xuan, J., *July 2017 1357-1369*
- Xu, W.**, Rezvani, M., Liang, W., Yu, J.X., and Liu, C., Efficient Algorithms for the Identification of Top-*k* Structural Hole Spanners in Large Social Networks; *May 2017 1017-1030*
- Xu, Y.**, Pan, S.J., Xiong, H., Wu, Q., Luo, R., Min, H., and Song, H., A Unified Framework for Metric Transfer Learning; *June 2017 1158-1171*
- Xu, Y.**, see Li, Y., *July 2017 1438-1451*
- Xu, Y.**, see Wu, Q., *July 2017 1494-1507*
- Xuan, J.**, Lu, J., Zhang, G., Xu, R.Y.D., and Luo, X., Bayesian Nonparametric Relational Topic Model through Dependent Gamma Processes; *July 2017 1357-1369*
- Xun, G.**, Jia, X., Gopalakrishnan, V., and Zhang, A., A Survey on Context Learning; *Jan. 2017 38-56*
- Yi, X.**, see Zhan, X., *Feb. 2017 272-285*
- Yin, D.**, see Hu, Y., *Sept. 2017 1902-1915*
- Yin, H.**, Wang, W., Wang, H., Chen, L., and Zhou, X., Spatial-Aware Hierarchical Collaborative Deep Learning for POI Recommendation; *Nov. 2017 2537-2551*
- Yin, J.**, see Luo, Z., *Oct. 2017 2125-2139*
- Yiu, M.L.**, see Chan, T.N., *April 2017 784-797*
- Yiu, M.L.**, see Li, W., *Oct. 2017 2182-2196*
- You, J.**, see Yu, Z., *Aug. 2017 1577-1590*
- You, J.**, see Zhao, N., *Nov. 2017 2498-2509*
- Yu, C.**, Nutanong, S., Li, H., Wang, C., and Yuan, X., A Generic Method for Accelerating LSH-Based Similarity Join Processing; *April 2017 712-726*
- Yu, F.**, see Zhang, M., *Oct. 2017 2155-2167*
- Yu, J.X.**, see Su, J., *March 2017 683-697*
- Yu, J.X.**, see Yuan, Y., *June 2017 1212-1225*
- Yu, J.X.**, see Qin, B., *Jan. 2017 86-99*
- Yu, J.X.**, see Xu, W., *May 2017 1017-1030*
- Yu, P.S.**, see Li, X., *Sept. 2017 1916-1927*
- Yu, P.S.**, see Zhu, T., *Aug. 2017 1619-1638*
- Yu, P.S.**, see Song, S., *Aug. 2017 1695-1708*
- Yu, P.S.**, see Shi, C., *Jan. 2017 17-37*
- Yu, Z.**, Kuang, Z., Liu, J., Chen, H., Zhang, J., You, J., Wong, H., and Han, G., Adaptive Ensembling of Semi-Supervised Clustering Solutions; *Aug. 2017 1577-1590*
- Yuan, B.**, see Jiang, B., *Dec. 2017 2758-2771*
- Yuan, X.**, see Yu, C., *April 2017 712-726*
- Yuan, Y.**, Lian, X., Chen, L., Yu, J.X., Wang, G., and Sun, Y., Keyword Search over Distributed Graphs with Compressed Signature; *June 2017 1212-1225*
- Yuan, Z.**, see Wu, F., *July 2017 1370-1383*

Y

- Yan, S.**, Lin, K., Zheng, X., Zhang, W., and Feng, X., An Approach for Building Efficient and Accurate Social Recommender Systems Using Individual Relationship Networks; *Oct. 2017 2086-2099*
- Yan, Y.**, see Wu, Q., *July 2017 1494-1507*
- Yang, B.**, Liu, X., Li, Y., and Zhao, X., Stochastic Blockmodeling and Variational Bayes Learning for Signed Network Analysis; *Sept. 2017 2026-2039*
- Yang, C.**, and Chen, J., A Scalable Data Chunk Similarity Based Compression Approach for Efficient Big Sensing Data Processing on Cloud; *June 2017 1144-1157*
- Yang, C.**, see Wang, C., *Dec. 2017 2669-2681*
- Yang, K.**, see Chen, G., *March 2017 656-669*
- Yang, N.**, see Wong, T., *Nov. 2017 2417-2427*
- Yang, P.**, Zhao, P., and Gao, X., Robust Online Multi-Task Learning with Correlative and Personalized Structures; *Nov. 2017 2510-2521*
- Yang, P.**, see Zhong, J., *Dec. 2017 2643-2654*
- Yang, S.**, see Chang, L., *Feb. 2017 387-401*
- Yang, X.**, see Zhu, R., *June 2017 1310-1328*
- Yang, X.**, see Wang, J., *Sept. 2017 1928-1942*
- Yang, Y.**, see Nie, L., *June 2017 1186-1198*
- Yang, Y.**, Shen, F., Huang, Z., Shen, H.T., and Li, X., Discrete Nonnegative Spectral Clustering; *Sept. 2017 1834-1845*
- Yang, Y.**, see Lan, C., *Aug. 2017 1681-1694*
- Yang, Y.**, see Zhuang, Y., *May 2017 977-990*
- Yang, Y.**, Wang, Z., Pei, J., and Chen, E., Tracking Influential Individuals in Dynamic Networks; *Nov. 2017 2615-2628*
- Yang, Y.**, see Wang, Z., *Nov. 2017 2374-2387*
- Yang, Y.**, see Li, Z., *Oct. 2017 2100-2110*
- Yang, Z.**, see Wang, J., *April 2017 828-841*
- Yao, J.**, see Han, Y., *Sept. 2017 1874-1887*
- Yao, X.**, see Jiang, B., *Dec. 2017 2758-2771*
- Yao, Y.**, see Xu, J., *June 2017 1296-1309*
- Yao, Y.**, see Li, Y., *July 2017 1438-1451*
- Yao, Y.**, Tong, H., Xu, F., and Lu, J., Scalable Algorithms for CQA Post Voting Prediction; *Aug. 2017 1723-1736*
- Ye, J.**, see Zhao, L., *May 2017 1059-1072*
- Yeo, J.**, see Wen, Y., *Aug. 2017 1639-1652*
- Yeo, J.**, Cho, H., Park, J., and Hwang, S., Multimodal KB Harvesting for Emerging Spatial Entities; *May 2017 1073-1086*
- Yi, D.**, see Hou, C., *Sept. 2017 1998-2011*
- Yi, D.**, see Zhuge, W., *Oct. 2017 2347-2359*

Z

- Zeng, D.**, see Bai, J., *Dec. 2017 2655-2668*
- Zervakis, L.**, Tryfonopoulos, C., Skiadopoulos, S., and Koubarakis, M., Query Reorganization Algorithms for Efficient Boolean Information Filtering; *Feb. 2017 418-432*
- Zha, H.**, see Xu, H., *Jan. 2017 157-171*
- Zhan, X.**, Zheng, Y., Yi, X., and Ukusuri, S.V., Citywide Traffic Volume Estimation Using Trajectory Data; *Feb. 2017 272-285*
- Zhang, A.**, see Xun, G., *Jan. 2017 38-56*
- Zhang, C.**, see Wang, H., *Jan. 2017 128-142*
- Zhang, C.**, see Meng, R., *May 2017 1087-1100*
- Zhang, D.**, see Guo, L., *March 2017 627-641*
- Zhang, D.**, see Nie, L., *June 2017 1186-1198*
- Zhang, D.**, see Fan, Q., *July 2017 1398-1411*
- Zhang, G.**, see Xuan, J., *July 2017 1357-1369*
- Zhang, H.**, see Wei, X., *Feb. 2017 344-358*
- Zhang, J.**, Chow, C., and Xu, J., Enabling Kernel-Based Attribute-Aware Matrix Factorization for Rating Prediction; *April 2017 798-812*
- Zhang, J.**, see Yu, Z., *Aug. 2017 1577-1590*
- Zhang, J.**, see Shi, C., *Jan. 2017 17-37*
- Zhang, J.**, see U, L.H., *May 2017 991-1003*
- Zhang, L.**, see Li, Y., *July 2017 1438-1451*
- Zhang, L.**, see Zhao, N., *Nov. 2017 2498-2509*
- Zhang, M.**, see Chen, Y., *Nov. 2017 2470-2483*
- Zhang, M.**, Yu, F., and Tang, C., Disambiguation-Free Partial Label Learning; *Oct. 2017 2155-2167*
- Zhang, P.**, see Wang, H., *Jan. 2017 128-142*
- Zhang, Q.**, see Zhao, N., *Nov. 2017 2498-2509*
- Zhang, S.**, see Li, D., *Sept. 2017 1985-1997*
- Zhang, T.**, see Song, J., *Sept. 2017 1888-1901*
- Zhang, W.**, see Chang, L., *Feb. 2017 387-401*
- Zhang, W.**, see Wang, X., *Feb. 2017 243-256*
- Zhang, W.**, see Wang, X., *March 2017 599-612*
- Zhang, W.**, see Yan, S., *Oct. 2017 2086-2099*
- Zhang, X.**, see Qahtan, A., *March 2017 642-655*
- Zhang, X.**, see Gu, B., *Jan. 2017 186-199*
- Zhang, Y.**, see Wang, X., *Feb. 2017 243-256*
- Zhang, Y.**, see Wang, X., *March 2017 599-612*
- Zhang, Y.**, see Liang, J., *June 2017 1281-1295*
- Zhang, Y.**, see Lin, H., *Sept. 2017 1820-1833*

SUBJECT INDEX

Zhang, Y., see Wu, F., Oct. 2017 2304-2317
 Zhang, Z., see Li, X., Sept. 2017 1916-1927
 Zhang, Z., see Zhuang, Y., May 2017 977-990
 Zhang, Z.M., see Song, J., Sept. 2017 1888-1901
 Zhao, J., see Chen, G., Nov. 2017 2601-2614
 Zhao, L., see Gu, B., Jan. 2017 186-199
 Zhao, L., Sun, Q., Ye, J., Chen, F., Lu, C., and Ramakrishnan, N., Feature Constrained Multi-Task Learning Models for Spatiotemporal Event Forecasting; May 2017 1059-1072
 Zhao, N., Zhang, L., Du, B., Zhang, Q., You, J., and Tao, D., Robust Dual Clustering with Adaptive Manifold Regularization; Nov. 2017 2498-2509
 Zhao, P., see Yang, P., Nov. 2017 2510-2521
 Zhao, S., see Cheng, B., May 2017 950-962
 Zhao, W., see Zhou, D., July 2017 1536-1548
 Zhao, X., see Yang, B., Sept. 2017 2026-2039
 Zhao, X., see Li, X., Sept. 2017 1916-1927
 Zhao, Z., see Wu, F., Oct. 2017 2304-2317
 Zheng, B., see Chen, G., March 2017 656-669
 Zheng, B., see Zhu, R., June 2017 1310-1328
 Zheng, B., Su, H., Hua, W., Zheng, K., Zhou, X., and Li, G., Efficient Clue-Based Route Search on Road Networks; Sept. 2017 1846-1859
 Zheng, K., see Hua, W., March 2017 499-512
 Zheng, K., see Zheng, B., Sept. 2017 1846-1859
 Zheng, K., see Gu, B., Jan. 2017 186-199
 Zheng, L., and Chen, L., Maximizing Acceptance in Rejection-Aware Spatial Crowdsourcing; Sept. 2017 1943-1956
 Zheng, X., see Yan, S., Oct. 2017 2086-2099
 Zheng, Y., see Zhan, X., Feb. 2017 272-285
 Zhong, J., Yang, P., and Tang, K., A Quality-Sensitive Method for Learning from Crowds; Dec. 2017 2643-2654
 Zhou, A., see Mao, J., Dec. 2017 2696-2709
 Zhou, D., Wu, X., Zhao, W., Lawless, S., and Liu, J., Query Expansion with Enriched User Profiles for Personalized Search Utilizing Folksonomy Data; July 2017 1536-1548
 Zhou, G., and Huang, J.X., Modeling and Learning Distributed Word Representation with Metadata for Question Retrieval; June 2017 1226-1239
 Zhou, H., see Li, D., Sept. 2017 1985-1997
 Zhou, J., see Xu, J., June 2017 1268-1280
 Zhou, L., see Wang, C., Sept. 2017 2012-2025
 Zhou, S., see Li, W., Oct. 2017 2182-2196
 Zhou, W., see Zhu, T., Aug. 2017 1619-1638
 Zhou, X., see Hua, W., March 2017 499-512
 Zhou, X., see Zheng, B., Sept. 2017 1846-1859
 Zhou, X., see Wu, Q., July 2017 1494-1507
 Zhou, X., see Gu, B., Jan. 2017 186-199
 Zhou, X., see Yin, H., Nov. 2017 2537-2551
 Zhou, Z., see Mu, X., Aug. 2017 1605-1618
 Zhu, G., and Iglesias, C.A., Computing Semantic Similarity of Concepts in Knowledge Graphs; Jan. 2017 72-85
 Zhu, K.Q., see Wu, W., Feb. 2017 446-457
 Zhu, L., Shen, J., Xie, L., and Cheng, Z., Unsupervised Visual Hashing with Semantic Assistant for Content-Based Image Retrieval; Feb. 2017 472-486
 Zhu, Q., see Su, J., March 2017 683-697
 Zhu, R., Wang, B., Yang, X., Zheng, B., and Wang, G., SAP: Improving Continuous Top-K Queries Over Streaming Data; June 2017 1310-1328
 Zhu, R., Zou, Z., and Li, J., SimRank on Uncertain Graphs; Nov. 2017 2522-2536
 Zhu, S., see Cheng, X., Sept. 2017 1779-1792
 Zhu, T., Li, G., Zhou, W., and Yu, P.S., Differentially Private Data Publishing and Analysis: A Survey; Aug. 2017 1619-1638
 Zhu, W., see Song, J., Sept. 2017 1888-1901
 Zhu, X., see Song, S., Aug. 2017 1695-1708
 Zhu, X., see Wang, H., Jan. 2017 128-142
 Zhuang, Y., Wang, H., Xiao, J., Wu, F., Yang, Y., Lu, W., and Zhang, Z., Bag-of-Discriminative-Words (BoDW) Representation via Topic Modeling; May 2017 977-990
 Zhuang, Y., see Wu, F., Oct. 2017 2304-2317
 Zhuge, Y., Nie, F., Hou, C., and Yi, D., Unsupervised Single and Multiple Views Feature Extraction with Structured Graph; Oct. 2017 2347-2359
 Zou, Z., see Zhu, R., Nov. 2017 2522-2536
 Zubiaga, A., Voss, A., Procter, R., Liakata, M., Wang, B., and Tsakalidis, A., Towards Real-Time, Country-Level Location Classification of Worldwide Tweets; Sept. 2017 2053-2066

A

Activity recognition

Learning Activity Predictors from Sensor Data: Algorithms, Evaluation, and Applications. *Minor, B.D.*, +, Dec. 2017 2744-2757

Adaptation models

A Non-Parametric Algorithm for Discovering Triggering Patterns of Spatio-Temporal Event Types. *Batu, B.B.*, +, Dec. 2017 2629-2642

Advertising data processing

Influence Maximization in Trajectory Databases. *Guo, L.*, +, March 2017 627-641

Probabilistic Models for Ad Viewability Prediction on the Web. *Wang, C.*, +, Sept. 2017 2012-2025

Algorithm design and analysis

Discovering Newsworthy Themes from Sequenced Data: A Step Towards Computational Journalism. *Fan, Q.*, +, July 2017 1398-1411

Efficient Implementation of Newton-Raphson Methods for Sequential Data Prediction. *Civek, B.C.*, +, Dec. 2017 2786-2791

Scalable Graph-Based Semi-Supervised Learning through Sparse Bayesian Model. *Jiang, B.*, +, Dec. 2017 2758-2771

Android (operating system)

Search Rank Fraud and Malware Detection in Google Play. *Rahman, M.*, +, June 2017 1329-1342

Anomaly detection

Feature Grouping-Based Outlier Detection Upon Streaming Trajectories. *Mao, J.*, +, Dec. 2017 2696-2709

Approximation theory

A Novel and Fast SimRank Algorithm. *Lu, J.*, +, March 2017 572-585

Discovering Newsworthy Themes from Sequenced Data: A Step Towards Computational Journalism. *Fan, Q.*, +, July 2017 1398-1411

Robust Online Multi-Task Learning with Correlative and Personalized Structures. *Yang, P.*, +, Nov. 2017 2510-2521

Area measurement

Enhancing Binary Classification by Modeling Uncertain Boundary in Three-Way Decisions. *Li, Y.*, +, July 2017 1438-1451

B

Bayes methods

BiRank: Towards Ranking on Bipartite Graphs. *He, X.*, +, Jan. 2017 57-71

Learning Online Trends for Interactive Query Auto-Completion. *Wang, Y.*, +, Nov. 2017 2442-2454

Scalable Graph-Based Semi-Supervised Learning through Sparse Bayesian Model. *Jiang, B.*, +, Dec. 2017 2758-2771

Stochastic Blockmodeling and Variational Bayes Learning for Signed Network Analysis. *Yang, B.*, +, Sept. 2017 2026-2039

Behavioral sciences computing

Modeling Information Diffusion over Social Networks for Temporal Dynamic Prediction. *Li, D.*, +, Sept. 2017 1985-1997

Modeling the Evolution of Users' Preferences and Social Links in Social Networking Services. *Wu, L.*, +, June 2017 1240-1253

Belief networks

Bayesian Nonparametric Relational Topic Model through Dependent Gamma Processes. *Xuan, J.*, +, July 2017 1357-1369

FORWARD: A Model for Forecasting Reservoir Water Dynamics Using Spatial Bayesian Network (SpaBN). *Das, M.*, +, April 2017 842-855

Sample-Based Attribute Selective An DE for Large Data. *Chen, S.*, +, Jan. 2017 172-185

Big Data

A Scalable Data Chunk Similarity Based Compression Approach for Efficient Big Sensing Data Processing on Cloud. *Yang, C.*, +, June 2017 1144-1157

Big Search in Cyberspace. *Fang, B.*, +, Sept. 2017 1793-1805

Efficient Processing of Skyline Queries Using MapReduce. *Park, Y.*, +, May 2017 1031-1044

Filtering Out Infrequent Behavior from Business Process Event Logs. *Conforti, R.*, +, Feb. 2017 300-314

Learning on Big Graph: Label Inference and Regularization with Anchor Hierarchy. *Wang, M.*, +, May 2017 1101-1114

Mining Top-k Co-Occurrence Patterns across Multiple Streams. *Amagata, D.*, +, Oct. 2017 2249-2262

Sample-Based Attribute Selective An DE for Large Data. *Chen, S.*, +, *Jan. 2017 172-185*

Spectral Ensemble Clustering via Weighted K-Means: Theoretical and Practical Evidence. *Liu, H.*, +, *May 2017 1129-1143*

Big Data applications

Efficient Implementation of Newton-Raphson Methods for Sequential Data Prediction. *Civek, B.C.*, +, *Dec. 2017 2786-2791*

Boolean functions

Time-Aware Boolean Spatial Keyword Queries. *Chen, G.*, +, *Nov. 2017 2601-2614*

Business data processing

Detecting Sudden and Gradual Drifts in Business Processes from Execution Traces. *Maaradj, A.*, +, *Oct. 2017 2140-2154*

Filtering Out Infrequent Behavior from Business Process Event Logs. *Conforti, R.*, +, *Feb. 2017 300-314*

C

Calibration

Pre-Processing Censored Survival Data Using Inverse Covariance Matrix Based Calibration. *Vinzamuri, B.*, +, *Oct. 2017 2111-2124*

Cartography

IF-Matching: Towards Accurate Map-Matching with Information Fusion. *Hu, G.*, +, *Jan. 2017 114-127*

Checkpointing

On Fault Tolerance for Distributed Iterative Dataflow Processing. *Xu, C.*, +, *Aug. 2017 1709-1722*

Classification

Towards Real-Time, Country-Level Location Classification of Worldwide Tweets. *Zubiaga, A.*, +, *Sept. 2017 2053-2066*

Cloud computing

A Scalable Data Chunk Similarity Based Compression Approach for Efficient Big Sensing Data Processing on Cloud. *Yang, C.*, +, *June 2017 1144-1157*

Crowdsourced Coverage as a Service: Two-Level Composition of Sensor Cloud Services. *Neiat, A.G.*, +, *July 2017 1384-1397*

Clustering algorithms

On Spectral Analysis of Signed and Dispute Graphs: Application to Community Structure. *Wu, L.*, +, *July 2017 1480-1493*

Clustering methods

A Non-Parametric Algorithm for Discovering Triggering Patterns of Spatio-Temporal Event Types. *Batu, B.B.*, +, *Dec. 2017 2629-2642*

On Spectral Analysis of Signed and Dispute Graphs: Application to Community Structure. *Wu, L.*, +, *July 2017 1480-1493*

Cognition

Associated Activation-Driven Enrichment: Understanding Implicit Information from a Cognitive Perspective. *Bai, J.*, +, *Dec. 2017 2655-2668*

Personal Web Revisitation by Context and Content Keywords with Relevance Feedback. *Jin, L.*, +, *July 2017 1508-1521*

Collaborative filtering

Enabling Kernel-Based Attribute-Aware Matrix Factorization for Rating Prediction. *Zhang, J.*, +, *April 2017 798-812*

Multi-Behavioral Sequential Prediction with Recurrent Log-Bilinear Model. *Liu, Q.*, +, *June 2017 1254-1267*

Probase+: Inferring Missing Links in Conceptual Taxonomies. *Liang, J.*, +, *June 2017 1281-1295*

Spatial-Aware Hierarchical Collaborative Deep Learning for POI Recommendation. *Yin, H.*, +, *Nov. 2017 2537-2551*

Communication complexity

Keyword Search over Distributed Graphs with Compressed Signature. *Yuan, Y.*, +, *June 2017 1212-1225*

Complex networks

A Parametric Model Approach for Structural Reconstruction of Scale-Free Networks. *Pandey, P.K.*, +, *Oct. 2017 2072-2085*

Nodes' Evolution Diversity and Link Prediction in Social Networks. *Wang, H.*, +, *Oct. 2017 2263-2274*

Towards Optimal Connectivity on Multi-Layered Networks. *Chen, C.*, +, *Oct. 2017 2332-2346*

Computational complexity

A Novel and Fast SimRank Algorithm. *Lu, J.*, +, *March 2017 572-585*

Activity Maximization by Effective Information Diffusion in Social Networks. *Wang, Z.*, +, *Nov. 2017 2374-2387*

An Ensemble Approach to Link Prediction. *Duan, L.*, +, *Nov. 2017 2402-2416*

Bump Hunting in the Dark: Local Discrepancy Maximization on Graphs. *Gionis, A.*, +, *March 2017 529-542*

Efficient Algorithms for the Identification of Top- k Structural Hole Spanners in Large Social Networks. *Xu, W.*, +, *May 2017 1017-1030*

Efficient Clue-Based Route Search on Road Networks. *Zheng, B.*, +, *Sept. 2017 1846-1859*

Efficient Implementation of Newton-Raphson Methods for Sequential Data Prediction. *Civek, B.C.*, +, *Dec. 2017 2786-2791*

Efficient Sensitivity Analysis for Inequality Queries in Probabilistic Databases. *Qin, B.*, +, *Jan. 2017 86-99*

Extracting Kernel Dataset from Big Sensory Data in Wireless Sensor Networks. *Cheng, S.*, +, *April 2017 813-827*

Fast Parallel Path Concatenation for Graph Extraction. *Shao, Y.*, +, *Oct. 2017 2210-2222*

Geo-Social Influence Spanning Maximization. *Li, J.*, +, *Aug. 2017 1653-1666*

Human-Powered Data Cleaning for Probabilistic Reachability Queries on Uncertain Graphs. *Lin, X.*, +, *July 2017 1452-1465*

Influence Maximization in Trajectory Databases. *Guo, L.*, +, *March 2017 627-641*

KDE-Track: An Efficient Dynamic Density Estimator for Data Streams. *Qahtan, A.*, +, *March 2017 642-655*

Knowledge Base Semantic Integration Using Crowdsourcing. *Meng, R.*, +, *May 2017 1087-1100*

Maximizing Acceptance in Rejection-Aware Spatial Crowdsourcing. *Zheng, L.*, +, *Sept. 2017 1943-1956*

Spectral Ensemble Clustering via Weighted K-Means: Theoretical and Practical Evidence. *Liu, H.*, +, *May 2017 1129-1143*

Supervised Taxonomies—Algorithms and Applications. *Amalaman, P.K.*, +, *Sept. 2017 2040-2052*

Computational geometry

A Generic Method for Accelerating LSH-Based Similarity Join Processing. *Yu, C.*, +, *April 2017 712-726*

SSE: Semantically Smooth Embedding for Knowledge Graphs. *Guo, S.*, +, *April 2017 884-897*

Computational linguistics

Semantic Bootstrapping: A Theoretical Perspective. *Wu, W.*, +, *Feb. 2017 446-457*

Understand Short Texts by Harvesting and Analyzing Semantic Knowledge. *Hua, W.*, +, *March 2017 499-512*

Computational modeling

A Non-Parametric Algorithm for Discovering Triggering Patterns of Spatio-Temporal Event Types. *Batu, B.B.*, +, *Dec. 2017 2629-2642*

Feature Grouping-Based Outlier Detection Upon Streaming Trajectories. *Mao, J.*, +, *Dec. 2017 2696-2709*

Computer graphics

Citywide Traffic Volume Estimation Using Trajectory Data. *Zhan, X.*, +, *Feb. 2017 272-285*

Computer networks

Crowdsourced Coverage as a Service: Two-Level Composition of Sensor Cloud Services. *Neiat, A.G.*, +, *July 2017 1384-1397*

Maximizing Acceptance in Rejection-Aware Spatial Crowdsourcing. *Zheng, L.*, +, *Sept. 2017 1943-1956*

Computer security

Incremental Frequent Subgraph Mining on Large Evolving Graphs. *Abdelhamid, E.*, +, *Dec. 2017 2710-2723*

Computer vision

Beautiful and Damned. Combined Effect of Content Quality and Social Ties on User Engagement. *Aiello, L.M.*, +, *Dec. 2017 2682-2695*

Conjugate gradient methods

A Novel and Fast SimRank Algorithm. *Lu, J.*, +, *March 2017 572-585*

Constraint handling

Adaptive Ensembling of Semi-Supervised Clustering Solutions. *Yu, Z.*, +, *Aug. 2017 1577-1590*

Content management

Engagement and Popularity Dynamics of YouTube Videos and Sensitivity to Meta-Data. *Hoiles, W.*, +, *July 2017 1426-1437*

Content-based retrieval

Beautiful and Damned. Combined Effect of Content Quality and Social Ties on User Engagement. *Aiello, L.M.*, +, *Dec. 2017 2682-2695*

Learning Bregman Distance Functions for Structural Learning to Rank. *Li, X.*, +, *Sept. 2017 1916-1927*

Unsupervised Visual Hashing with Semantic Assistant for Content-Based Image Retrieval. *Zhu, L.*, +, *Feb. 2017 472-486*

Convex programming

Stochastic Gradient Made Stable: A Manifold Propagation Approach for Large-Scale Optimization. *Mu, Y.*, +, *Feb. 2017 458-471*

Convolution

Deep Learning of Graphs with Ngram Convolutional Neural Networks. Luo, Z., +, Oct. 2017 2125-2139

Covariance analysis

Pre-Processing Censored Survival Data Using Inverse Covariance Matrix Based Calibration. Vinzamuri, B., +, Oct. 2017 2111-2124

Covariance matrices

Pre-Processing Censored Survival Data Using Inverse Covariance Matrix Based Calibration. Vinzamuri, B., +, Oct. 2017 2111-2124

Credit transactions

Local Suppression and Splitting Techniques for Privacy Preserving Publication of Trajectories. Terrovitis, M., +, July 2017 1466-1479

Crowdsourcing

A Quality-Sensitive Method for Learning from Crowds. Zhong, J., +, Dec. 2017 2643-2654

Crowdsourced Coverage as a Service: Two-Level Composition of Sensor Cloud Services. Neiat, A.G., +, July 2017 1384-1397

Human-Powered Data Cleaning for Probabilistic Reachability Queries on Uncertain Graphs. Lin, X., +, July 2017 1452-1465

Knowledge Base Semantic Integration Using Crowdsourcing. Meng, R., +, May 2017 1087-1100

Maximizing Acceptance in Rejection-Aware Spatial Crowdsourcing. Zheng, L., +, Sept. 2017 1943-1956

Reducing Uncertainty of Probabilistic Top-*k* Ranking via Pairwise Crowdsourcing. Lin, X., +, Oct. 2017 2290-2303

Scalable Algorithms for CQA Post Voting Prediction. Yao, Y., +, Aug. 2017 1723-1736

Cyber-physical systems

Time Series Management Systems: A Survey. Jensen, S.K., +, Nov. 2017 2581-2600

D**Data analysis**

pSCAN: Fast and Exact Structural Graph Clustering. Chang, L., +, Feb. 2017 387-401

Big Search in Cyberspace. Fang, B., +, Sept. 2017 1793-1805

Causal Decision Trees. Li, J., +, Feb. 2017 257-271

Differentially Private Data Publishing and Analysis: A Survey. Zhu, T., +, Aug. 2017 1619-1638

Efficient Retrieval of Bounded-Cost Informative Routes. Li, W., +, Oct. 2017 2182-2196

Filtering Out Infrequent Behavior from Business Process Event Logs. Conforti, R., +, Feb. 2017 300-314

gMark: Schema-Driven Generation of Graphs and Queries. Bagan, G., +, April 2017 856-869

Incremental Subgraph Feature Selection for Graph Classification. Wang, H., +, Jan. 2017 128-142

Manifold Learning by Curved Cosine Mapping. Gu, H., +, Oct. 2017 2236-2248

Matching Heterogeneous Events with Patterns. Song, S., +, Aug. 2017 1695-1708

Measuring Concentration of Distances—An Effective and Efficient Empirical Index. Kumari, S., +, Feb. 2017 373-386

Microscopic and Macroscopic Spatio-Temporal Topic Models for Check-in Data. Liu, Y., +, Sept. 2017 1957-1970

Pre-Processing Censored Survival Data Using Inverse Covariance Matrix Based Calibration. Vinzamuri, B., +, Oct. 2017 2111-2124

RAPT: Rare Class Prediction in Absence of True Labels. Mithal, V., +, Nov. 2017 2484-2497

Special Section on the International Conference on Data Engineering 2015. Lehner, W., +, March 2017 497-498

Spectral Ensemble Clustering via Weighted K-Means: Theoretical and Practical Evidence. Liu, H., +, May 2017 1129-1143

Data compression

A Scalable Data Chunk Similarity Based Compression Approach for Efficient Big Sensing Data Processing on Cloud. Yang, C., +, June 2017 1144-1157

Data encapsulation

Embedding Learning with Events in Heterogeneous Information Networks. Gui, H., +, Nov. 2017 2428-2441

Data flow computing

On Fault Tolerance for Distributed Iterative Dataflow Processing. Xu, C., +, Aug. 2017 1709-1722

Data handling

A Scalable Data Chunk Similarity Based Compression Approach for Efficient Big Sensing Data Processing on Cloud. Yang, C., +, June 2017 1144-1157

Confusion-Matrix-Based Kernel Logistic Regression for Imbalanced Data Classification. Ohsaki, M., +, Sept. 2017 1806-1819

Efficient Processing of Skyline Queries Using MapReduce. Park, Y., +, May 2017 1031-1044

Efficient Top-*k* Dominating Computation on Massive Data. Han, X., +, June 2017 1199-1211

Fully Scalable Methods for Distributed Tensor Factorization. Shin, K., +, Jan. 2017 100-113

GALLOP: Global Feature Fused Location Prediction for Different Check-in Scenarios. Han, Y., +, Sept. 2017 1874-1887

Human-Powered Data Cleaning for Probabilistic Reachability Queries on Uncertain Graphs. Lin, X., +, July 2017 1452-1465

QDA: A Query-Driven Approach to Entity Resolution. Altwaijry, H., +, Feb. 2017 402-417

Reducing Uncertainty of Probabilistic Top-*k* Ranking via Pairwise Crowdsourcing. Lin, X., +, Oct. 2017 2290-2303

Semiring Rank Matrix Factorization. Le Van, T., +, Aug. 2017 1737-1750

Synopsis: A Distributed Sketch over Voluminous Spatiotemporal Observational Streams. Buddhika, T., +, Nov. 2017 2552-2566

Time Series Management Systems: A Survey. Jensen, S.K., +, Nov. 2017 2581-2600

Unsupervised Single and Multiple Views Feature Extraction with Structured Graph. Zhuge, W., +, Oct. 2017 2347-2359

Wellness Representation of Users in Social Media: Towards Joint Modeling of Heterogeneity and Temporality. Akbari, M., +, Oct. 2017 2360-2373

Data integration

Knowledge Base Semantic Integration Using Crowdsourcing. Meng, R., +, May 2017 1087-1100

LS-Join: Local Similarity Join on String Collections. Wang, J., +, Sept. 2017 1928-1942

Profiling Entities over Time in the Presence of Unreliable Sources. Li, F., +, July 2017 1522-1535

The Interaction Between Schema Matching and Record Matching in Data Integration. Gu, B., +, Jan. 2017 186-199

Data integrity

A Novel Cost-Based Model for Data Repairing. Hao, S., +, April 2017 727-742

Storing, Tracking, and Querying Provenance in Linked Data. Wylot, M., +, Aug. 2017 1751-1764

Data management

Special Section on the International Conference on Data Engineering 2015. Lehner, W., +, March 2017 497-498

Data mining

A Non-Parametric Algorithm for Discovering Triggering Patterns of Spatio-Temporal Event Types. Batu, B.B., +, Dec. 2017 2629-2642

A Survey of Heterogeneous Information Network Analysis. Shi, C., +, Jan. 2017 17-37

A Web Services Discovery Approach Based on Mining Underlying Interface Semantics. Cheng, B., +, May 2017 950-962

Bayesian Nonparametric Relational Topic Model through Dependent Gamma Processes. Xuan, J., +, July 2017 1357-1369

Classification Under Streaming Emerging New Classes: A Solution Using Completely-Random Trees. Mu, X., +, Aug. 2017 1605-1618

Comparative Relation Generative Model. Tkachenko, M., +, April 2017 771-783

Efficient Keyword-Aware Representative Travel Route Recommendation. Wen, Y., +, Aug. 2017 1639-1652

Efficient Pattern-Based Aggregation on Sequence Data. He, Z., +, Feb. 2017 286-299

Enhancing Team Composition in Professional Networks: Problem Definitions and Fast Solutions. Li, L., +, March 2017 613-626

Enumeration of Maximal Cliques from an Uncertain Graph. Mukherjee, A.P., +, March 2017 543-555

Filtering Out Infrequent Behavior from Business Process Event Logs. Conforti, R., +, Feb. 2017 300-314

Generating Query Facets Using Knowledge Bases. Jiang, Z., +, Feb. 2017 315-329

Incremental Frequent Subgraph Mining on Large Evolving Graphs. Abdelhamid, E., +, Dec. 2017 2710-2723

KDE-Track: An Efficient Dynamic Density Estimator for Data Streams. Qahtan, A., +, March 2017 642-655

- Local Suppression and Splitting Techniques for Privacy Preserving Publication of Trajectories. *Terrovitis, M.*, +, *July 2017 1466-1479*
- Mining Competitors from Large Unstructured Datasets. *Valkanas, G.*, +, *Sept. 2017 1971-1984*
- Mining Top-k Co-Occurrence Patterns across Multiple Streams. *Amagata, D.*, +, *Oct. 2017 2249-2262*
- Multi-View Unsupervised Feature Selection with Adaptive Similarity and View Weight. *Hou, C.*, +, *Sept. 2017 1998-2011*
- Robust Dual Clustering with Adaptive Manifold Regularization. *Zhao, N.*, +, *Nov. 2017 2498-2509*
- Stochastic Blockmodeling and Variational Bayes Learning for Signed Network Analysis. *Yang, B.*, +, *Sept. 2017 2026-2039*
- Theory-Guided Data Science: A New Paradigm for Scientific Discovery from Data. *Karpatne, A.*, +, *Oct. 2017 2318-2331*
- Using Geodesic Space Density Gradients for Network Community Detection. *Mahmood, A.*, +, *April 2017 921-935*
- Data models**
- Associated Activation-Driven Enrichment: Understanding Implicit Information from a Cognitive Perspective. *Bai, J.*, +, *Dec. 2017 2655-2668*
- Enhancing Binary Classification by Modeling Uncertain Boundary in Three-Way Decisions. *Li, Y.*, +, *July 2017 1438-1451*
- Fast Parallel Path Concatenation for Graph Extraction. *Shao, Y.*, +, *Oct. 2017 2210-2222*
- Scalable Graph-Based Semi-Supervised Learning through Sparse Bayesian Model. *Jiang, B.*, +, *Dec. 2017 2758-2771*
- Theory-Guided Data Science: A New Paradigm for Scientific Discovery from Data. *Karpatne, A.*, +, *Oct. 2017 2318-2331*
- Data privacy**
- Differentially Private Data Publishing and Analysis: A Survey. *Zhu, T.*, +, *Aug. 2017 1619-1638*
- Local Suppression and Splitting Techniques for Privacy Preserving Publication of Trajectories. *Terrovitis, M.*, +, *July 2017 1466-1479*
- Scalable Iterative Classification for Sanitizing Large-Scale Datasets. *Li, B.*, +, *March 2017 698-711*
- Data reduction**
- A Semi-NMF-PCA Unified Framework for Data Clustering. *Allab, K.*, +, *Jan. 2017 2-16*
- Beyond Trace Ratio: Weighted Harmonic Mean of Trace Ratios for Multi-class Discriminant Analysis. *Li, Z.*, +, *Oct. 2017 2100-2110*
- Bridging Feature Selection and Extraction: Compound Feature Generation. *Murthy, C.A.*, *April 2017 757-770*
- Manifold Learning by Curved Cosine Mapping. *Gu, H.*, +, *Oct. 2017 2236-2248*
- Data structures**
- BiRank: Towards Ranking on Bipartite Graphs. *He, X.*, +, *Jan. 2017 57-71*
- Differentially Private Data Publishing and Analysis: A Survey. *Zhu, T.*, +, *Aug. 2017 1619-1638*
- Generating Query Facets Using Knowledge Bases. *Jiang, Z.*, +, *Feb. 2017 315-329*
- Malevolent Activity Detection with Hypergraph-Based Models. *Guzzo, A.*, +, *May 2017 1115-1128*
- Reachability Querying: Can It Be Even Faster?. *Su, J.*, +, *March 2017 683-697*
- Robust Dual Clustering with Adaptive Manifold Regularization. *Zhao, N.*, +, *Nov. 2017 2498-2509*
- Two Efficient Hashing Schemes for High-Dimensional Furthest Neighbor Search. *Huang, Q.*, +, *Dec. 2017 2772-2785*
- Using Geodesic Space Density Gradients for Network Community Detection. *Mahmood, A.*, +, *April 2017 921-935*
- Data warehouses**
- Synopsis: A Distributed Sketch over Voluminous Spatiotemporal Observational Streams. *Buddhika, T.*, +, *Nov. 2017 2552-2566*
- Database indexing**
- An Efficient Indexing Method for Skyline Computations with Partially Ordered Domains. *Hsueh, Y.*, +, *May 2017 963-976*
- Database management systems**
- Efficient Pattern-Based Aggregation on Sequence Data. *He, Z.*, +, *Feb. 2017 286-299*
- gMark: Schema-Driven Generation of Graphs and Queries. *Bagan, G.*, +, *April 2017 856-869*
- Influence Maximization in Trajectory Databases. *Guo, L.*, +, *March 2017 627-641*
- Probabilistic Keys. *Brown, P.*, +, *March 2017 670-682*
- Reducing Uncertainty of Probabilistic Top-k Ranking via Pairwise Crowdsourcing. *Lin, X.*, +, *Oct. 2017 2290-2303*
- Time Series Management Systems: A Survey. *Jensen, S.K.*, +, *Nov. 2017 2581-2600*
- User-Centric Similarity Search. *Georgoulas, K.*, +, *Jan. 2017 200-213*
- Debit transactions**
- Local Suppression and Splitting Techniques for Privacy Preserving Publication of Trajectories. *Terrovitis, M.*, +, *July 2017 1466-1479*
- Decision trees**
- Causal Decision Trees. *Li, J.*, +, *Feb. 2017 257-271*
- Fusing Complete Monotonic Decision Trees. *Xu, H.*, +, *Oct. 2017 2223-2235*
- Decoding**
- Hierarchical Contextual Attention Recurrent Neural Network for Map Query Suggestion. *Song, J.*, +, *Sept. 2017 1888-1901*
- Delta-sigma modulation**
- Automating Characterization Deployment in Distributed Data Stream Management Systems. *Wang, C.*, +, *Dec. 2017 2669-2681*
- Differential geometry**
- Using Geodesic Space Density Gradients for Network Community Detection. *Mahmood, A.*, +, *April 2017 921-935*
- Digital circuits**
- Network Motif Discovery: A GPU Approach. *Lin, W.*, +, *March 2017 513-528*
- Directed graphs**
- An Efficient Indexing Method for Skyline Computations with Partially Ordered Domains. *Hsueh, Y.*, +, *May 2017 963-976*
- Reachability Querying: Can It Be Even Faster?. *Su, J.*, +, *March 2017 683-697*
- Distributed databases**
- Linking Heterogeneous Data in the Semantic Web Using Scalable and Domain-Independent Candidate Selection. *Song, D.*, +, *Jan. 2017 143-156*
- Distributed processing**
- Modeling and Learning Distributed Word Representation with Metadata for Question Retrieval. *Zhou, G.*, +, *June 2017 1226-1239*
- Divide and conquer methods**
- Causal Decision Trees. *Li, J.*, +, *Feb. 2017 257-271*
- Fast Parallel Path Concatenation for Graph Extraction. *Shao, Y.*, +, *Oct. 2017 2210-2222*
- Document handling**
- Bag-of-Discriminative-Words (BoDW) Representation via Topic Modeling. *Zhuang, Y.*, +, *May 2017 977-990*
- Continuous Top-k Monitoring on Document Streams. *U, L.H.*, +, *May 2017 991-1003*
- Dynamic programming**
- Efficient Clue-Based Route Search on Road Networks. *Zheng, B.*, +, *Sept. 2017 1846-1859*
- Efficient Sensitivity Analysis for Inequality Queries in Probabilistic Databases. *Qin, B.*, +, *Jan. 2017 86-99*
- Tracking Influential Individuals in Dynamic Networks. *Yang, Y.*, +, *Nov. 2017 2615-2628*
- Dynamic scheduling**
- Automating Characterization Deployment in Distributed Data Stream Management Systems. *Wang, C.*, +, *Dec. 2017 2669-2681*

E

Eigenvalues and eigenfunctions

On Spectral Analysis of Signed and Dispute Graphs: Application to Community Structure. *Wu, L.*, +, *July 2017 1480-1493*

Electronic commerce

Dynamic Facet Ordering for Faceted Product Search Engines. *Vandic, D.*, +, *May 2017 1004-1016*

Mining Competitors from Large Unstructured Datasets. *Valkanas, G.*, +, *Sept. 2017 1971-1984*

RA-PARE: A Generic Strategy for Cold-Start Rating Prediction Problem. *Xu, J.*, +, *June 2017 1296-1309*

Electronic health records

Patient Flow Prediction via Discriminative Learning of Mutually-Correcting Processes. *Xu, H.*, +, *Jan. 2017 157-171*

Electronic mail

Discovering Newsworthy Themes from Sequenced Data: A Step Towards Computational Journalism. *Fan, Q.*, +, *July 2017 1398-1411*

Electronic publishing

Local Suppression and Splitting Techniques for Privacy Preserving Publication of Trajectories. *Terrovitis, M.*, +, *July 2017 1466-1479*

Encoding

Hierarchical Contextual Attention Recurrent Neural Network for Map Query Suggestion. *Song, J.*, +, *Sept. 2017 1888-1901*

Energy consumption

Energy-Efficient Query Processing in Web Search Engines. *Catena, M.*, +, *July 2017 1412-1425*

Engineering profession

Discovering Newsworthy Themes from Sequenced Data: A Step Towards Computational Journalism. *Fan, Q.*, +, *July 2017 1398-1411*

Engines

Energy-Efficient Query Processing in Web Search Engines. *Catena, M.*, +, *July 2017 1412-1425*

Environmental factors

Learning Activity Predictors from Sensor Data: Algorithms, Evaluation, and Applications. *Minor, B.D.*, +, *Dec. 2017 2744-2757*

Error analysis

A Generic Method for Accelerating LSH-Based Similarity Join Processing. *Yu, C.*, +, *April 2017 712-726*

Error correction codes

Disambiguation-Free Partial Label Learning. *Zhang, M.*, +, *Oct. 2017 2155-2167*

Error detection

A Novel Cost-Based Model for Data Repairing. *Hao, S.*, +, *April 2017 727-742*

Estimation theory

KDE-Track: An Efficient Dynamic Density Estimator for Data Streams. *Qahtan, A.*, +, *March 2017 642-655*

Pre-Processing Censored Survival Data Using Inverse Covariance Matrix Based Calibration. *Vinzamuri, B.*, +, *Oct. 2017 2111-2124*

User-Centric Similarity Search. *Georgoulas, K.*, +, *Jan. 2017 200-213*

Euclidean distance

Two Efficient Hashing Schemes for High-Dimensional Furthest Neighbor Search. *Huang, Q.*, +, *Dec. 2017 2772-2785*

Evolutionary computation

Evolutionary Nonnegative Matrix Factorization Algorithms for Community Detection in Dynamic Networks. *Ma, X.*, +, *May 2017 1045-1058*

Expectation-maximization algorithms

Stochastic Blockmodeling and Variational Bayes Learning for Signed Network Analysis. *Yang, B.*, +, *Sept. 2017 2026-2039*

F**Fault tolerance**

On Fault Tolerance for Distributed Iterative Dataflow Processing. *Xu, C.*, +, *Aug. 2017 1709-1722*

Feature extraction

Beyond Trace Ratio: Weighted Harmonic Mean of Trace Ratios for Multiclass Discriminant Analysis. *Li, Z.*, +, *Oct. 2017 2100-2110*

Bridging Feature Selection and Extraction: Compound Feature Generation. *Murthy, C.A.*, *April 2017 757-770*

Deep Learning of Graphs with Ngram Convolutional Neural Networks. *Luo, Z.*, +, *Oct. 2017 2125-2139*

Feature Grouping-Based Outlier Detection Upon Streaming Trajectories. *Mao, J.*, +, *Dec. 2017 2696-2709*

GALLOP: Global Feature Fused Location Prediction for Different Check-in Scenarios. *Han, Y.*, +, *Sept. 2017 1874-1887*

Learning Activity Predictors from Sensor Data: Algorithms, Evaluation, and Applications. *Minor, B.D.*, +, *Dec. 2017 2744-2757*

Unsupervised Single and Multiple Views Feature Extraction with Structured Graph. *Zhuge, W.*, +, *Oct. 2017 2347-2359*

Feature selection

Bridging Feature Selection and Extraction: Compound Feature Generation. *Murthy, C.A.*, *April 2017 757-770*

Feature Selection by Maximizing Independent Classification Information. *Wang, J.*, +, *April 2017 828-841*

Incremental Subgraph Feature Selection for Graph Classification. *Wang, H.*, +, *Jan. 2017 128-142*

Linking Heterogeneous Data in the Semantic Web Using Scalable and Domain-Independent Candidate Selection. *Song, D.*, +, *Jan. 2017 143-156*

Multi-View Unsupervised Feature Selection with Adaptive Similarity and View Weight. *Hou, C.*, +, *Sept. 2017 1998-2011*

Patient Flow Prediction via Discriminative Learning of Mutually-Correcting Processes. *Xu, H.*, +, *Jan. 2017 157-171*

Flash memories

Advanced Block Nested Loop Join for Extending SSD Lifetime. *Roh, H.*, +, *April 2017 743-756*

Flicker

Beautiful and Damned. Combined Effect of Content Quality and Social Ties on User Engagement. *Aiello, L.M.*, +, *Dec. 2017 2682-2695*

Forecasting theory

Online Multi-Task Learning Framework for Ensemble Forecasting. *Xu, J.*, +, *June 2017 1268-1280*

Formal specification

Crowdsourced Coverage as a Service: Two-Level Composition of Sensor Cloud Services. *Neiat, A.G.*, +, *July 2017 1384-1397*

Fuzzy logic

Managing Temporal Constraints with Preferences: Representation, Reasoning, and Querying. *Terenziani, P.*, +, *Sept. 2017 2067-2071*

Fuzzy set theory

Managing Temporal Constraints with Preferences: Representation, Reasoning, and Querying. *Terenziani, P.*, +, *Sept. 2017 2067-2071*

G**Games**

Discovering Newsworthy Themes from Sequenced Data: A Step Towards Computational Journalism. *Fan, Q.*, +, *July 2017 1398-1411*

Geographic information systems

GALLOP: Global Feature Fused Location Prediction for Different Check-in Scenarios. *Han, Y.*, +, *Sept. 2017 1874-1887*

Geography

Efficient Distance-Aware Influence Maximization in Geo-Social Networks. *Wang, X.*, +, *March 2017 599-612*

Geometry

Learning Bregman Distance Functions for Structural Learning to Rank. *Li, X.*, +, *Sept. 2017 1916-1927*

Manifold Learning by Curved Cosine Mapping. *Gu, H.*, +, *Oct. 2017 2236-2248*

Geophysics computing

FORWARD: A Model for Forecasting Reservoir Water Dynamics Using Spatial Bayesian Network (SpaBN). *Das, M.*, +, *April 2017 842-855*

Global Positioning System

Citywide Traffic Volume Estimation Using Trajectory Data. *Zhan, X.*, +, *Feb. 2017 272-285*

IF-Matching: Towards Accurate Map-Matching with Information Fusion. *Hu, G.*, +, *Jan. 2017 114-127*

Gradient methods

Robust Online Multi-Task Learning with Correlative and Personalized Structures. *Yang, P.*, +, *Nov. 2017 2510-2521*

Stochastic Gradient Made Stable: A Manifold Propagation Approach for Large-Scale Optimization. *Mu, Y.*, +, *Feb. 2017 458-471*

Using Geodesic Space Density Gradients for Network Community Detection. *Mahmood, A.*, +, *April 2017 921-935*

Wellness Representation of Users in Social Media: Towards Joint Modeling of Heterogeneity and Temporality. *Akbari, M.*, +, *Oct. 2017 2360-2373*

Graph theory

pSCAN: Fast and Exact Structural Graph Clustering. *Chang, L.*, +, *Feb. 2017 387-401*

A Novel and Fast SimRank Algorithm. *Lu, J.*, +, *March 2017 572-585*

A Novel Cost-Based Model for Data Repairing. *Hao, S.*, +, *April 2017 727-742*

An Empirical Evaluation of Techniques for Ranking Semantic Associations. *Cheng, G.*, +, *Nov. 2017 2388-2401*

BiRank: Towards Ranking on Bipartite Graphs. *He, X.*, +, *Jan. 2017 57-71*

Bring Order into the Samples: A Novel Scalable Method for Influence Maximization. *Wang, X.*, +, *Feb. 2017 243-256*

Bump Hunting in the Dark: Local Discrepancy Maximization on Graphs. *Gionis, A.*, +, *March 2017 529-542*

Computing Semantic Similarity of Concepts in Knowledge Graphs. *Zhu, G.*, +, *Jan. 2017 72-85*

Deep Learning of Graphs with Ngram Convolutional Neural Networks. *Luo, Z.*, +, *Oct. 2017 2125-2139*

Detecting Stress Based on Social Interactions in Social Networks. *Lin, H.*, +, *Sept. 2017 1820-1833*

- Efficient Clue-Based Route Search on Road Networks. *Zheng, B.*, +, *Sept. 2017 1846-1859*
- Enhancing Team Composition in Professional Networks: Problem Definitions and Fast Solutions. *Li, L.*, +, *March 2017 613-626*
- Enumeration of Maximal Cliques from an Uncertain Graph. *Mukherjee, A. P.*, +, *March 2017 543-555*
- Fast Parallel Path Concatenation for Graph Extraction. *Shao, Y.*, +, *Oct. 2017 2210-2222*
- gMark: Schema-Driven Generation of Graphs and Queries. *Bagan, G.*, +, *April 2017 856-869*
- Incremental Subgraph Feature Selection for Graph Classification. *Wang, H.*, +, *Jan. 2017 128-142*
- Keyword Search on Temporal Graphs. *Liu, Z.*, +, *Aug. 2017 1667-1680*
- Keyword Search over Distributed Graphs with Compressed Signature. *Yuan, Y.*, +, *June 2017 1212-1225*
- Learning on Big Graph: Label Inference and Regularization with Anchor Hierarchy. *Wang, M.*, +, *May 2017 1101-1114*
- Malevolent Activity Detection with Hypergraph-Based Models. *Guzzo, A.*, +, *May 2017 1115-1128*
- Mining Top-k Co-Occurrence Patterns across Multiple Streams. *Amagata, D.*, +, *Oct. 2017 2249-2262*
- Multi-View Unsupervised Feature Selection with Adaptive Similarity and View Weight. *Hou, C.*, +, *Sept. 2017 1998-2011*
- Network Motif Discovery: A GPU Approach. *Lin, W.*, +, *March 2017 513-528*
- On Fault Tolerance for Distributed Iterative Dataflow Processing. *Xu, C.*, +, *Aug. 2017 1709-1722*
- On Minimal Steiner Maximum-Connected Subgraph Queries. *Hu, J.*, +, *Nov. 2017 2455-2469*
- Online Multi-Task Learning Framework for Ensemble Forecasting. *Xu, J.*, +, *June 2017 1268-1280*
- Scaling Up Markov Logic Probabilistic Inference for Social Graphs. *Chen, H.*, +, *Feb. 2017 433-445*
- SimRank on Uncertain Graphs. *Zhu, R.*, +, *Nov. 2017 2522-2536*
- SSE: Semantically Smooth Embedding for Knowledge Graphs. *Guo, S.*, +, *April 2017 884-897*
- Trajectory Community Discovery and Recommendation by Multi-Source Diffusion Modeling. *Liu, S.*, +, *April 2017 898-911*
- Unsupervised Single and Multiple Views Feature Extraction with Structured Graph. *Zhuge, W.*, +, *Oct. 2017 2347-2359*
- VISUAL: Simulation of Visual Subgraph Query Formulation to Enable Automated Performance Benchmarking. *Bhowmick, S.S.*, +, *Aug. 2017 1765-1778*
- Graphical models**
- Incremental Frequent Subgraph Mining on Large Evolving Graphs. *Abdelhamid, E.*, +, *Dec. 2017 2710-2723*
- Knowledge Graph Embedding: A Survey of Approaches and Applications. *Wang, Q.*, +, *Dec. 2017 2724-2743*
- Graphics processing units**
- Network Motif Discovery: A GPU Approach. *Lin, W.*, +, *March 2017 513-528*
- Graphs**
- Keyword Search on Temporal Graphs. *Liu, Z.*, +, *Aug. 2017 1667-1680*
- Greedy algorithms**
- Efficient Clue-Based Route Search on Road Networks. *Zheng, B.*, +, *Sept. 2017 1846-1859*
- Geo-Social Influence Spanning Maximization. *Li, J.*, +, *Aug. 2017 1653-1666*
- Influential Node Tracking on Dynamic Social Network: An Interchange Greedy Approach. *Song, G.*, +, *Feb. 2017 359-372*
- Knowledge Base Semantic Integration Using Crowdsourcing. *Meng, R.*, +, *May 2017 1087-1100*
- Maximizing Acceptance in Rejection-Aware Spatial Crowdsourcing. *Zheng, L.*, +, *Sept. 2017 1943-1956*
- The Interaction Between Schema Matching and Record Matching in Data Integration. *Gu, B.*, +, *Jan. 2017 186-199*

H

Health care

- A Proactive Workflow Model for Healthcare Operation and Management. *Liu, C.*, +, *March 2017 586-598*
- Wellness Representation of Users in Social Media: Towards Joint Modeling of Heterogeneity and Temporality. *Akbari, M.*, +, *Oct. 2017 2360-2373*

History

- Discovering Newsworthy Themes from Sequenced Data: A Step Towards Computational Journalism. *Fan, Q.*, +, *July 2017 1398-1411*

Human computer interaction

- VISUAL: Simulation of Visual Subgraph Query Formulation to Enable Automated Performance Benchmarking. *Bhowmick, S.S.*, +, *Aug. 2017 1765-1778*

Human factors

- Modeling the Evolution of Users' Preferences and Social Links in Social Networking Services. *Wu, L.*, +, *June 2017 1240-1253*

I

IEEE publishing

- 2016 Reviewers List. *Feb. 2017 487-494*

Image coding

- Unsupervised Visual Hashing with Semantic Assistant for Content-Based Image Retrieval. *Zhu, L.*, +, *Feb. 2017 472-486*

Image retrieval

- Multimodal KB Harvesting for Emerging Spatial Entities. *Yeo, J.*, +, *May 2017 1073-1086*
- Unsupervised Visual Hashing with Semantic Assistant for Content-Based Image Retrieval. *Zhu, L.*, +, *Feb. 2017 472-486*

Indexes

- Efficient Metric Indexing for Similarity Search and Similarity Joins. *Chen, L.*, +, *March 2017 556-571*
- Energy-Efficient Query Processing in Web Search Engines. *Catena, M.*, +, *July 2017 1412-1425*
- Incremental Frequent Subgraph Mining on Large Evolving Graphs. *Abdelhamid, E.*, +, *Dec. 2017 2710-2723*
- Query Reorganization Algorithms for Efficient Boolean Information Filtering. *Zervakis, L.*, +, *Feb. 2017 418-432*
- User-Centric Similarity Search. *Georgoulas, K.*, +, *Jan. 2017 200-213*

Inference mechanisms

- Causal Decision Trees. *Li, J.*, +, *Feb. 2017 257-271*
- FORWARD: A Model for Forecasting Reservoir Water Dynamics Using Spatial Bayesian Network (SpaBN). *Das, M.*, +, *April 2017 842-855*
- I Know What You Want to Express: Sentence Element Inference by Incorporating External Knowledge Base. *Wei, X.*, +, *Feb. 2017 344-358*
- Learning on Big Graph: Label Inference and Regularization with Anchor Hierarchy. *Wang, M.*, +, *May 2017 1101-1114*
- Learning Online Trends for Interactive Query Auto-Completion. *Wang, Y.*, +, *Nov. 2017 2442-2454*
- Scaling Up Markov Logic Probabilistic Inference for Social Graphs. *Chen, H.*, +, *Feb. 2017 433-445*
- Uncertainty Quantification in Mathematics-Embedded Ontologies Using Stochastic Reduced Order Model. *Li, X.*, +, *April 2017 912-920*

Information dissemination

- Activity Maximization by Effective Information Diffusion in Social Networks. *Wang, Z.*, +, *Nov. 2017 2374-2387*

Information filtering

- Continuous Top-k Monitoring on Document Streams. *U, L.H.*, +, *May 2017 991-1003*
- Efficient Algorithms for the Identification of Top-k Structural Hole Spanners in Large Social Networks. *Xu, W.*, +, *May 2017 1017-1030*
- Query Reorganization Algorithms for Efficient Boolean Information Filtering. *Zervakis, L.*, +, *Feb. 2017 418-432*
- Signature-Based Trajectory Similarity Join. *Ta, N.*, +, *April 2017 870-883*

Information networks

- A Survey of Heterogeneous Information Network Analysis. *Shi, C.*, +, *Jan. 2017 17-37*
- Computing Semantic Similarity of Concepts in Knowledge Graphs. *Zhu, G.*, +, *Jan. 2017 72-85*
- Embedding Learning with Events in Heterogeneous Information Networks. *Gui, H.*, +, *Nov. 2017 2428-2441*

Information resources

- Efficient Algorithms for the Identification of Top-k Structural Hole Spanners in Large Social Networks. *Xu, W.*, +, *May 2017 1017-1030*

Information retrieval

- Mining Competitors from Large Unstructured Datasets. *Valkanas, G.*, +, *Sept. 2017 1971-1984*

Integer programming

- NoSE: Schema Design for NoSQL Applications. *Mior, M.J.*, +, *Oct. 2017 2275-2289*

Internet

- A Web Services Discovery Approach Based on Mining Underlying Interface Semantics. *Cheng, B.*, +, *May 2017 950-962*
- Big Search in Cyberspace. *Fang, B.*, +, *Sept. 2017 1793-1805*
- Finding Related Forum Posts through Content Similarity over Intention-Based Segmentation. *Papadimitriou, D.*, +, *Sept. 2017 1860-1873*
- Fully Scalable Methods for Distributed Tensor Factorization. *Shin, K.*, +, *Jan. 2017 100-113*
- Modeling and Learning Distributed Word Representation with Metadata for Question Retrieval. *Zhou, G.*, +, *June 2017 1226-1239*
- Probabilistic Models for Ad Viewability Prediction on the Web. *Wang, C.*, +, *Sept. 2017 2012-2025*
- Scalable Algorithms for CQA Post Voting Prediction. *Yao, Y.*, +, *Aug. 2017 1723-1736*
- Time-Aware Boolean Spatial Keyword Queries. *Chen, G.*, +, *Nov. 2017 2601-2614*
- User Satisfaction Prediction with Mouse Movement Information in Heterogeneous Search Environment. *Chen, Y.*, +, *Nov. 2017 2470-2483*

Internet of Things

- Mining Top-k Co-Occurrence Patterns across Multiple Streams. *Amagata, D.*, +, *Oct. 2017 2249-2262*
- Time Series Management Systems: A Survey. *Jensen, S.K.*, +, *Nov. 2017 2581-2600*

Interpolation

- KDE-Track: An Efficient Dynamic Density Estimator for Data Streams. *Qahtan, A.*, +, *March 2017 642-655*

Invasive software

- Search Rank Fraud and Malware Detection in Google Play. *Rahman, M.*, +, *June 2017 1329-1342*

Itemsets

- Incremental Frequent Subgraph Mining on Large Evolving Graphs. *Abdelhamid, E.*, +, *Dec. 2017 2710-2723*

Iterative methods

- A Novel Cost-Based Model for Data Repairing. *Hao, S.*, +, *April 2017 727-742*
- Bridging Feature Selection and Extraction: Compound Feature Generation. *Murthy, C.A.*, *April 2017 757-770*
- Feature Constrained Multi-Task Learning Models for Spatiotemporal Event Forecasting. *Zhao, L.*, +, *May 2017 1059-1072*
- On Fault Tolerance for Distributed Iterative Dataflow Processing. *Xu, C.*, +, *Aug. 2017 1709-1722*
- Pre-Processing Censored Survival Data Using Inverse Covariance Matrix Based Calibration. *Vinzamuri, B.*, +, *Oct. 2017 2111-2124*
- Scalable Iterative Classification for Sanitizing Large-Scale Datasets. *Li, B.*, +, *March 2017 698-711*
- User Vitality Ranking and Prediction in Social Networking Services: A Dynamic Network Perspective. *Hong, R.*, +, *June 2017 1343-1356*
- Using Geodesic Space Density Gradients for Network Community Detection. *Mahmood, A.*, +, *April 2017 921-935*

K**Knowledge acquisition**

- Guided HTM: Hierarchical Topic Model with Dirichlet Forest Priors. *Shin, S.*, +, *Feb. 2017 330-343*
- Semantic Bootstrapping: A Theoretical Perspective. *Wu, W.*, +, *Feb. 2017 446-457*

Knowledge based systems

- Associated Activation-Driven Enrichment: Understanding Implicit Information from a Cognitive Perspective. *Bai, J.*, +, *Dec. 2017 2655-2668*
- Computing Semantic Similarity of Concepts in Knowledge Graphs. *Zhu, G.*, +, *Jan. 2017 72-85*
- Generating Query Facets Using Knowledge Bases. *Jiang, Z.*, +, *Feb. 2017 315-329*
- I Know What You Want to Express: Sentence Element Inference by Incorporating External Knowledge Base. *Wei, X.*, +, *Feb. 2017 344-358*
- Knowledge Base Semantic Integration Using Crowdsourcing. *Meng, R.*, +, *May 2017 1087-1100*
- Multimodal KB Harvesting for Emerging Spatial Entities. *Yeo, J.*, +, *May 2017 1073-1086*

Knowledge discovery

- Knowledge Graph Embedding: A Survey of Approaches and Applications. *Wang, Q.*, +, *Dec. 2017 2724-2743*

Knowledge engineering

- Special Section on the International Conference on Data Engineering 2015. *Lehner, W.*, +, *March 2017 497-498*

Knowledge representation

- Managing Temporal Constraints with Preferences: Representation, Reasoning, and Querying. *Terenziani, P.*, +, *Sept. 2017 2067-2071*

L**Laplace equations**

- On Spectral Analysis of Signed and Dispute Graphs: Application to Community Structure. *Wu, L.*, +, *July 2017 1480-1493*

Large-scale systems

- Towards Optimal Connectivity on Multi-Layered Networks. *Chen, C.*, +, *Oct. 2017 2332-2346*

Learning (artificial intelligence)

- A Multi-Objective Optimization Approach for Question Routing in Community Question Answering Services. *Cheng, X.*, +, *Sept. 2017 1779-1792*
- A Survey on Context Learning. *Xun, G.*, +, *Jan. 2017 38-56*
- A Unified Framework for Metric Transfer Learning. *Xu, Y.*, +, *June 2017 1158-1171*
- Adaptive Ensembling of Semi-Supervised Clustering Solutions. *Yu, Z.*, +, *Aug. 2017 1577-1590*
- Beyond Trace Ratio: Weighted Harmonic Mean of Trace Ratios for Multi-class Discriminant Analysis. *Li, Z.*, +, *Oct. 2017 2100-2110*
- Citywide Traffic Volume Estimation Using Trajectory Data. *Zhan, X.*, +, *Feb. 2017 272-285*
- Confusion-Matrix-Based Kernel Logistic Regression for Imbalanced Data Classification. *Ohsaki, M.*, +, *Sept. 2017 1806-1819*
- Data-Driven Answer Selection in Community QA Systems. *Nie, L.*, +, *June 2017 1186-1198*
- Deep Learning of Graphs with Ngram Convolutional Neural Networks. *Luo, Z.*, +, *Oct. 2017 2125-2139*
- Dependency Analysis of Accuracy Estimates in k-Fold Cross Validation. *Wong, T.*, +, *Nov. 2017 2417-2427*
- Disambiguation-Free Partial Label Learning. *Zhang, M.*, +, *Oct. 2017 2155-2167*
- Discrete Nonnegative Spectral Clustering. *Yang, Y.*, +, *Sept. 2017 1834-1845*
- Embedding Learning with Events in Heterogeneous Information Networks. *Gui, H.*, +, *Nov. 2017 2428-2441*
- Feature Constrained Multi-Task Learning Models for Spatiotemporal Event Forecasting. *Zhao, L.*, +, *May 2017 1059-1072*
- Fusing Complete Monotonic Decision Trees. *Xu, H.*, +, *Oct. 2017 2223-2235*
- Guided HTM: Hierarchical Topic Model with Dirichlet Forest Priors. *Shin, S.*, +, *Feb. 2017 330-343*
- I Know What You Want to Express: Sentence Element Inference by Incorporating External Knowledge Base. *Wei, X.*, +, *Feb. 2017 344-358*
- Incremental Subgraph Feature Selection for Graph Classification. *Wang, H.*, +, *Jan. 2017 128-142*
- Learning Bregman Distance Functions for Structural Learning to Rank. *Li, X.*, +, *Sept. 2017 1916-1927*
- Learning on Big Graph: Label Inference and Regularization with Anchor Hierarchy. *Wang, M.*, +, *May 2017 1101-1114*
- Learning Online Trends for Interactive Query Auto-Completion. *Wang, Y.*, +, *Nov. 2017 2442-2454*
- Manifold Learning by Curved Cosine Mapping. *Gu, H.*, +, *Oct. 2017 2236-2248*
- Measuring Concentration of Distances—An Effective and Efficient Empirical Index. *Kumari, S.*, +, *Feb. 2017 373-386*
- Modeling and Learning Distributed Word Representation with Metadata for Question Retrieval. *Zhou, G.*, +, *June 2017 1226-1239*
- On Fault Tolerance for Distributed Iterative Dataflow Processing. *Xu, C.*, +, *Aug. 2017 1709-1722*
- Online Multi-Task Learning Framework for Ensemble Forecasting. *Xu, J.*, +, *June 2017 1268-1280*
- Online Transfer Learning with Multiple Homogeneous or Heterogeneous Sources. *Wu, Q.*, +, *July 2017 1494-1507*
- Patient Flow Prediction via Discriminative Learning of Mutually-Correcting Processes. *Xu, H.*, +, *Jan. 2017 157-171*
- RA-PARE: A Generic Strategy for Cold-Start Rating Prediction Problem. *Xu, J.*, +, *June 2017 1296-1309*

- RAPT: Rare Class Prediction in Absence of True Labels. *Mithal, V.*, +, Nov. 2017 2484-2497
- Robust Dual Clustering with Adaptive Manifold Regularization. *Zhao, N.*, +, Nov. 2017 2498-2509
- Robust Online Multi-Task Learning with Correlative and Personalized Structures. *Yang, P.*, +, Nov. 2017 2510-2521
- Sample-Based Attribute Selective A_n DE for Large Data. *Chen, S.*, +, Jan. 2017 172-185
- Scalable Iterative Classification for Sanitizing Large-Scale Datasets. *Li, B.*, +, March 2017 698-711
- Spatial-Aware Hierarchical Collaborative Deep Learning for POI Recommendation. *Yin, H.*, +, Nov. 2017 2537-2551
- SSE: Semantically Smooth Embedding for Knowledge Graphs. *Guo, S.*, +, April 2017 884-897
- Stochastic Blockmodeling and Variational Bayes Learning for Signed Network Analysis. *Yang, B.*, +, Sept. 2017 2026-2039
- Stochastic Gradient Made Stable: A Manifold Propagation Approach for Large-Scale Optimization. *Mu, Y.*, +, Feb. 2017 458-471
- Supervised Taxonomies—Algorithms and Applications. *Amalaman, P.K.*, +, Sept. 2017 2040-2052
- Temporal Interaction and Causal Influence in Community-Based Question Answering. *Wu, F.*, +, Oct. 2017 2304-2317
- Unsupervised Single and Multiple Views Feature Extraction with Structured Graph. *Zhuge, W.*, +, Oct. 2017 2347-2359
- Wellness Representation of Users in Social Media: Towards Joint Modeling of Heterogeneity and Temporality. *Akbari, M.*, +, Oct. 2017 2360-2373
- Learning systems**
- A Quality-Sensitive Method for Learning from Crowds. *Zhong, J.*, +, Dec. 2017 2643-2654
- Automating Characterization Deployment in Distributed Data Stream Management Systems. *Wang, C.*, +, Dec. 2017 2669-2681
- Linked Data**
- Linking Heterogeneous Data in the Semantic Web Using Scalable and Domain-Independent Candidate Selection. *Song, D.*, +, Jan. 2017 143-156
- Scaling Up Markov Logic Probabilistic Inference for Social Graphs. *Chen, H.*, +, Feb. 2017 433-445
- Storing, Tracking, and Querying Provenance in Linked Data. *Wylot, M.*, +, Aug. 2017 1751-1764
- Logic programming**
- Temporal Conformance Analysis and Explanation of Clinical Guidelines Execution: An Answer Set Programming Approach. *Spiotta, M.*, +, Nov. 2017 2567-2580
- M**
- Manifolds**
- Scalable Graph-Based Semi-Supervised Learning through Sparse Bayesian Model. *Jiang, B.*, +, Dec. 2017 2758-2771
- Market research**
- Geo-Social Influence Spanning Maximization. *Li, J.*, +, Aug. 2017 1653-1666
- Knowledge Graph Embedding: A Survey of Approaches and Applications. *Wang, Q.*, +, Dec. 2017 2724-2743
- User-Centric Similarity Search. *Georgoulas, K.*, +, Jan. 2017 200-213
- Marketing data processing**
- Mining Competitors from Large Unstructured Datasets. *Valkanas, G.*, +, Sept. 2017 1971-1984
- Markov processes**
- Analyzing Sentiments in One Go: A Supervised Joint Topic Modeling Approach. *Hai, Z.*, +, June 2017 1172-1185
- Bayesian Nonparametric Relational Topic Model through Dependent Gamma Processes. *Xuan, J.*, +, July 2017 1357-1369
- Scaling Up Markov Logic Probabilistic Inference for Social Graphs. *Chen, H.*, +, Feb. 2017 433-445
- SimRank on Uncertain Graphs. *Zhu, R.*, +, Nov. 2017 2522-2536
- Mathematics computing**
- SimRank on Uncertain Graphs. *Zhu, R.*, +, Nov. 2017 2522-2536
- Uncertainty Quantification in Mathematics-Embedded Ontologies Using Stochastic Reduced Order Model. *Li, X.*, +, April 2017 912-920
- Matrix algebra**
- Beyond Trace Ratio: Weighted Harmonic Mean of Trace Ratios for Multiclass Discriminant Analysis. *Li, Z.*, +, Oct. 2017 2100-2110
- Confusion-Matrix-Based Kernel Logistic Regression for Imbalanced Data Classification. *Ohsaki, M.*, +, Sept. 2017 1806-1819
- Efficient Sub-Window Nearest Neighbor Search on Matrix. *Chan, T.N.*, +, April 2017 784-797
- Enabling Kernel-Based Attribute-Aware Matrix Factorization for Rating Prediction. *Zhang, J.*, +, April 2017 798-812
- Evolutionary Nonnegative Matrix Factorization Algorithms for Community Detection in Dynamic Networks. *Ma, X.*, +, May 2017 1045-1058
- Learning on Big Graph: Label Inference and Regularization with Anchor Hierarchy. *Wang, M.*, +, May 2017 1101-1114
- Learning Social Circles in Ego-Networks Based on Multi-View Network Structure. *Lan, C.*, +, Aug. 2017 1681-1694
- Robust Online Multi-Task Learning with Correlative and Personalized Structures. *Yang, P.*, +, Nov. 2017 2510-2521
- Spectral Ensemble Clustering via Weighted K-Means: Theoretical and Practical Evidence. *Liu, H.*, +, May 2017 1129-1143
- Unsupervised Single and Multiple Views Feature Extraction with Structured Graph. *Zhuge, W.*, +, Oct. 2017 2347-2359
- Matrix decomposition**
- A Semi-NMF-PCA Unified Framework for Data Clustering. *Allab, K.*, +, Jan. 2017 2-16
- An Approach for Building Efficient and Accurate Social Recommender Systems Using Individual Relationship Networks. *Yan, S.*, +, Oct. 2017 2086-2099
- Fully Scalable Methods for Distributed Tensor Factorization. *Shin, K.*, +, Jan. 2017 100-113
- Knowledge Graph Embedding: A Survey of Approaches and Applications. *Wang, Q.*, +, Dec. 2017 2724-2743
- Robust Dual Clustering with Adaptive Manifold Regularization. *Zhao, N.*, +, Nov. 2017 2498-2509
- Semiring Rank Matrix Factorization. *Le Van, T.*, +, Aug. 2017 1737-1750
- Matrix multiplication**
- A Novel and Fast SimRank Algorithm. *Lu, J.*, +, March 2017 572-585
- Maximum likelihood estimation**
- DRIMUX: Dynamic Rumor Influence Minimization with User Experience in Social Networks. *Wang, B.*, +, Oct. 2017 2168-2181
- The Interaction Between Schema Matching and Record Matching in Data Integration. *Gu, B.*, +, Jan. 2017 186-199
- Measurement**
- Learning Activity Predictors from Sensor Data: Algorithms, Evaluation, and Applications. *Minor, B.D.*, +, Dec. 2017 2744-2757
- Media streaming**
- Automating Characterization Deployment in Distributed Data Stream Management Systems. *Wang, C.*, +, Dec. 2017 2669-2681
- Medical information systems**
- Pre-Processing Censored Survival Data Using Inverse Covariance Matrix Based Calibration. *Vinzamuri, B.*, +, Oct. 2017 2111-2124
- Temporal Conformance Analysis and Explanation of Clinical Guidelines Execution: An Answer Set Programming Approach. *Spiotta, M.*, +, Nov. 2017 2567-2580
- Wellness Representation of Users in Social Media: Towards Joint Modelling of Heterogeneity and Temporality. *Akbari, M.*, +, Oct. 2017 2360-2373
- Meetings**
- Special Section on the International Conference on Data Engineering 2015. *Lehner, W.*, +, March 2017 497-498
- Memory management**
- Incremental Frequent Subgraph Mining on Large Evolving Graphs. *Abdelhamid, E.*, +, Dec. 2017 2710-2723
- Meta data**
- Engagement and Popularity Dynamics of YouTube Videos and Sensitivity to Meta-Data. *Hoiles, W.*, +, July 2017 1426-1437
- Modeling and Learning Distributed Word Representation with Metadata for Question Retrieval. *Zhou, G.*, +, June 2017 1226-1239
- Microprocessor chips**
- Network Motif Discovery: A GPU Approach. *Lin, W.*, +, March 2017 513-528
- Minimization**
- Multi-View Unsupervised Feature Selection with Adaptive Similarity and View Weight. *Hou, C.*, +, Sept. 2017 1998-2011
- Mixture models**
- Sparse Poisson Latent Block Model for Document Clustering. *Ailem, M.*, +, July 2017 1563-1576
- Mobile computing**
- A Systematic Approach to Clustering Whole Trajectories of Mobile Objects in Road Networks. *Han, B.*, +, May 2017 936-949
- App Miscategorization Detection: A Case Study on Google Play. *Surian, D.*, +, Aug. 2017 1591-1604

- Geo-Social Influence Spanning Maximization. *Li, J.*, +, *Aug. 2017 1653-1666*
- Influence Maximization in Trajectory Databases. *Guo, L.*, +, *March 2017 627-641*
- Large-Scale Location Prediction for Web Pages. *Hu, Y.*, +, *Sept. 2017 1902-1915*
- Maximizing Acceptance in Rejection-Aware Spatial Crowdsourcing. *Zheng, L.*, +, *Sept. 2017 1943-1956*
- Time-Aware Boolean Spatial Keyword Queries. *Chen, G.*, +, *Nov. 2017 2601-2614*

Monte Carlo methods

- Analyzing Sentiments in One Go: A Supervised Joint Topic Modeling Approach. *Hai, Z.*, +, *June 2017 1172-1185*

Multi-agent systems

- Modeling Information Diffusion over Social Networks for Temporal Dynamic Prediction. *Li, D.*, +, *Sept. 2017 1985-1997*

N**Natural language processing**

- I Know What You Want to Express: Sentence Element Inference by Incorporating External Knowledge Base. *Wei, X.*, +, *Feb. 2017 344-358*
- Temporal Interaction and Causal Influence in Community-Based Question Answering. *Wu, F.*, +, *Oct. 2017 2304-2317*

Near-field communication

- Local Suppression and Splitting Techniques for Privacy Preserving Publication of Trajectories. *Terrovitis, M.*, +, *July 2017 1466-1479*

Nearest neighbor searches

- Two Efficient Hashing Schemes for High-Dimensional Furthest Neighbor Search. *Huang, Q.*, +, *Dec. 2017 2772-2785*

Network theory (graphs)

- A Parametric Model Approach for Structural Reconstruction of Scale-Free Networks. *Pandey, P.K.*, +, *Oct. 2017 2072-2085*
- An Ensemble Approach to Link Prediction. *Duan, L.*, +, *Nov. 2017 2402-2416*
- Bring Order into the Samples: A Novel Scalable Method for Influence Maximization. *Wang, X.*, +, *Feb. 2017 243-256*
- Efficient Retrieval of Bounded-Cost Informative Routes. *Li, W.*, +, *Oct. 2017 2182-2196*
- Evolutionary Nonnegative Matrix Factorization Algorithms for Community Detection in Dynamic Networks. *Ma, X.*, +, *May 2017 1045-1058*
- Nodes' Evolution Diversity and Link Prediction in Social Networks. *Wang, H.*, +, *Oct. 2017 2263-2274*
- On Minimal Steiner Maximum-Connected Subgraph Queries. *Hu, J.*, +, *Nov. 2017 2455-2469*
- Towards Optimal Connectivity on Multi-Layered Networks. *Chen, C.*, +, *Oct. 2017 2332-2346*
- Tracking Influential Individuals in Dynamic Networks. *Yang, Y.*, +, *Nov. 2017 2615-2628*

Neural networks

- A Survey on Context Learning. *Xun, G.*, +, *Jan. 2017 38-56*
- Deep Learning of Graphs with Ngram Convolutional Neural Networks. *Luo, Z.*, +, *Oct. 2017 2125-2139*
- Detecting Stress Based on Social Interactions in Social Networks. *Lin, H.*, +, *Sept. 2017 1820-1833*

Newton method

- Efficient Implementation of Newton-Raphson Methods for Sequential Data Prediction. *Civek, B.C.*, +, *Dec. 2017 2786-2791*

Niobium

- Enhancing Binary Classification by Modeling Uncertain Boundary in Three-Way Decisions. *Li, Y.*, +, *July 2017 1438-1451*

Noise measurement

- A Quality-Sensitive Method for Learning from Crowds. *Zhong, J.*, +, *Dec. 2017 2643-2654*

Nonlinear dynamical systems

- Online Multi-Task Learning Framework for Ensemble Forecasting. *Xu, J.*, +, *June 2017 1268-1280*

O**Object recognition**

- Two Efficient Hashing Schemes for High-Dimensional Furthest Neighbor Search. *Huang, Q.*, +, *Dec. 2017 2772-2785*

Online front-ends

- Dynamic Facet Ordering for Faceted Product Search Engines. *Vandic, D.*, +, *May 2017 1004-1016*

Ontologies (artificial intelligence)

- Linking Heterogeneous Data in the Semantic Web Using Scalable and Domain-Independent Candidate Selection. *Song, D.*, +, *Jan. 2017 143-156*
- Uncertainty Quantification in Mathematics-Embedded Ontologies Using Stochastic Reduced Order Model. *Li, X.*, +, *April 2017 912-920*

Optimization

- pSCAN: Fast and Exact Structural Graph Clustering. *Chang, L.*, +, *Feb. 2017 387-401*
- A Multi-Objective Optimization Approach for Question Routing in Community Question Answering Services. *Cheng, X.*, +, *Sept. 2017 1779-1792*
- A Novel Cost-Based Model for Data Repairing. *Hao, S.*, +, *April 2017 727-742*
- A Quality-Sensitive Method for Learning from Crowds. *Zhong, J.*, +, *Dec. 2017 2643-2654*
- Activity Maximization by Effective Information Diffusion in Social Networks. *Wang, Z.*, +, *Nov. 2017 2374-2387*
- Beyond Trace Ratio: Weighted Harmonic Mean of Trace Ratios for Multi-class Discriminant Analysis. *Li, Z.*, +, *Oct. 2017 2100-2110*
- Bring Order into the Samples: A Novel Scalable Method for Influence Maximization. *Wang, X.*, +, *Feb. 2017 243-256*
- Bump Hunting in the Dark: Local Discrepancy Maximization on Graphs. *Gionis, A.*, +, *March 2017 529-542*
- Confusion-Matrix-Based Kernel Logistic Regression for Imbalanced Data Classification. *Ohsaki, M.*, +, *Sept. 2017 1806-1819*
- Discrete Nonnegative Spectral Clustering. *Yang, Y.*, +, *Sept. 2017 1834-1845*
- Efficient Algorithms for the Identification of Top-*k* Structural Hole Spanners in Large Social Networks. *Xu, W.*, +, *May 2017 1017-1030*
- Efficient Distance-Aware Influence Maximization in Geo-Social Networks. *Wang, X.*, +, *March 2017 599-612*
- Geo-Social Influence Spanning Maximization. *Li, J.*, +, *Aug. 2017 1653-1666*
- Human-Powered Data Cleaning for Probabilistic Reachability Queries on Uncertain Graphs. *Lin, X.*, +, *July 2017 1452-1465*
- Influence Maximization in Trajectory Databases. *Guo, L.*, +, *March 2017 627-641*
- Influential Node Tracking on Dynamic Social Network: An Interchange Greedy Approach. *Song, G.*, +, *Feb. 2017 359-372*
- Learning on Big Graph: Label Inference and Regularization with Anchor Hierarchy. *Wang, M.*, +, *May 2017 1101-1114*
- Maximizing Acceptance in Rejection-Aware Spatial Crowdsourcing. *Zheng, L.*, +, *Sept. 2017 1943-1956*
- Robust Dual Clustering with Adaptive Manifold Regularization. *Zhao, N.*, +, *Nov. 2017 2498-2509*
- Towards Optimal Connectivity on Multi-Layered Networks. *Chen, C.*, +, *Oct. 2017 2332-2346*

Organizational aspects

- Facilitating Time Critical Information Seeking in Social Media. *Ranganath, S.*, +, *Oct. 2017 2197-2209*

P**Parallel processing**

- Efficient Processing of Skyline Queries Using MapReduce. *Park, Y.*, +, *May 2017 1031-1044*
- Metric Similarity Joins Using MapReduce. *Chen, G.*, +, *March 2017 656-669*

Parallel programming

- A Scalable Data Chunk Similarity Based Compression Approach for Efficient Big Sensing Data Processing on Cloud. *Yang, C.*, +, *June 2017 1144-1157*

Parameter estimation

- Analyzing Sentiments in One Go: A Supervised Joint Topic Modeling Approach. *Hai, Z.*, +, *June 2017 1172-1185*

Partitioning algorithms

- On Spectral Analysis of Signed and Dispute Graphs: Application to Community Structure. *Wu, L.*, +, *July 2017 1480-1493*

Pattern classification

- Bag-of-Discriminative-Words (BoDW) Representation via Topic Modeling. *Zhuang, Y.*, +, *May 2017 977-990*

Causal Decision Trees. *Li, J.*, +, *Feb. 2017 257-271*

Classification Under Streaming Emerging New Classes: A Solution Using Completely-Random Trees. *Mu, X.*, +, *Aug. 2017 1605-1618*

Collaboratively Training Sentiment Classifiers for Multiple Domains. *Wu, F.*, +, *July 2017 1370-1383*

Confusion-Matrix-Based Kernel Logistic Regression for Imbalanced Data Classification. *Ohsaki, M.*, +, *Sept. 2017 1806-1819*

Dependency Analysis of Accuracy Estimates in k-Fold Cross Validation. *Wong, T.*, +, *Nov. 2017 2417-2427*

Disambiguation-Free Partial Label Learning. *Zhang, M.*, +, *Oct. 2017 2155-2167*

Feature Selection by Maximizing Independent Classification Information. *Wang, J.*, +, *April 2017 828-841*

Fusing Complete Monotonic Decision Trees. *Xu, H.*, +, *Oct. 2017 2223-2235*

Incremental Subgraph Feature Selection for Graph Classification. *Wang, H.*, +, *Jan. 2017 128-142*

Learning Bregman Distance Functions for Structural Learning to Rank. *Li, X.*, +, *Sept. 2017 1916-1927*

Learning on Big Graph: Label Inference and Regularization with Anchor Hierarchy. *Wang, M.*, +, *May 2017 1101-1114*

RAPT: Rare Class Prediction in Absence of True Labels. *Mithal, V.*, +, *Nov. 2017 2484-2497*

Scalable Iterative Classification for Sanitizing Large-Scale Datasets. *Li, B.*, +, *March 2017 698-711*

Supervised Taxonomies—Algorithms and Applications. *Amalaman, P.K.*, +, *Sept. 2017 2040-2052*

Temporal Interaction and Causal Influence in Community-Based Question Answering. *Wu, F.*, +, *Oct. 2017 2304-2317*

Pattern clustering

pSCAN: Fast and Exact Structural Graph Clustering. *Chang, L.*, +, *Feb. 2017 387-401*

A Novel and Fast SimRank Algorithm. *Lu, J.*, +, *March 2017 572-585*

A Semi-NMF-PCA Unified Framework for Data Clustering. *Allab, K.*, +, *Jan. 2017 2-16*

A Systematic Approach to Clustering Whole Trajectories of Mobile Objects in Road Networks. *Han, B.*, +, *May 2017 936-949*

A Web Services Discovery Approach Based on Mining Underlying Interface Semantics. *Cheng, B.*, +, *May 2017 950-962*

Adaptive Ensembling of Semi-Supervised Clustering Solutions. *Yu, Z.*, +, *Aug. 2017 1577-1590*

Discrete Nonnegative Spectral Clustering. *Yang, Y.*, +, *Sept. 2017 1834-1845*

Evolutionary Nonnegative Matrix Factorization Algorithms for Community Detection in Dynamic Networks. *Ma, X.*, +, *May 2017 1045-1058*

Finding Related Forum Posts through Content Similarity over Intention-Based Segmentation. *Papadimitriou, D.*, +, *Sept. 2017 1860-1873*

Guided HTM: Hierarchical Topic Model with Dirichlet Forest Priors. *Shin, S.*, +, *Feb. 2017 330-343*

Learning Social Circles in Ego-Networks Based on Multi-View Network Structure. *Lan, C.*, +, *Aug. 2017 1681-1694*

Metric Similarity Joins Using MapReduce. *Chen, G.*, +, *March 2017 656-669*

Robust Dual Clustering with Adaptive Manifold Regularization. *Zhao, N.*, +, *Nov. 2017 2498-2509*

Sparse Poisson Latent Block Model for Document Clustering. *Ailem, M.*, +, *July 2017 1563-1576*

Spectral Ensemble Clustering via Weighted K-Means: Theoretical and Practical Evidence. *Liu, H.*, +, *May 2017 1129-1143*

Supervised Taxonomies—Algorithms and Applications. *Amalaman, P.K.*, +, *Sept. 2017 2040-2052*

Trajectory Community Discovery and Recommendation by Multi-Source Diffusion Modeling. *Liu, S.*, +, *April 2017 898-911*

Unsupervised Single and Multiple Views Feature Extraction with Structured Graph. *Zhuge, W.*, +, *Oct. 2017 2347-2359*

Pattern matching

Efficient Keyword-Aware Representative Travel Route Recommendation. *Wen, Y.*, +, *Aug. 2017 1639-1652*

Linking Heterogeneous Data in the Semantic Web Using Scalable and Domain-Independent Candidate Selection. *Song, D.*, +, *Jan. 2017 143-156*

Matching Heterogeneous Events with Patterns. *Song, S.*, +, *Aug. 2017 1695-1708*

Profiling Entities over Time in the Presence of Unreliable Sources. *Li, F.*, +, *July 2017 1522-1535*

The Interaction Between Schema Matching and Record Matching in Data Integration. *Gu, B.*, +, *Jan. 2017 186-199*

Pattern recognition

Efficient Pattern-Based Aggregation on Sequence Data. *He, Z.*, +, *Feb. 2017 286-299*

Manifold Learning by Curved Cosine Mapping. *Gu, H.*, +, *Oct. 2017 2236-2248*

Prediction algorithms

Efficient Implementation of Newton-Raphson Methods for Sequential Data Prediction. *Civek, B.C.*, +, *Dec. 2017 2786-2791*

Learning Activity Predictors from Sensor Data: Algorithms, Evaluation, and Applications. *Minor, B.D.*, +, *Dec. 2017 2744-2757*

Scalable Graph-Based Semi-Supervised Learning through Sparse Bayesian Model. *Jiang, B.*, +, *Dec. 2017 2758-2771*

Predictive models

Automating Characterization Deployment in Distributed Data Stream Management Systems. *Wang, C.*, +, *Dec. 2017 2669-2681*

Principal component analysis

A Semi-NMF-PCA Unified Framework for Data Clustering. *Allab, K.*, +, *Jan. 2017 2-16*

Probabilistic logic

Managing Temporal Constraints with Preferences: Representation, Reasoning, and Querying. *Terenziani, P.*, +, *Sept. 2017 2067-2071*

Scaling Up Markov Logic Probabilistic Inference for Social Graphs. *Chen, H.*, +, *Feb. 2017 433-445*

Probability

A Web Services Discovery Approach Based on Mining Underlying Interface Semantics. *Cheng, B.*, +, *May 2017 950-962*

Analyzing Sentiments in One Go: A Supervised Joint Topic Modeling Approach. *Hai, Z.*, +, *June 2017 1172-1185*

Confusion-Matrix-Based Kernel Logistic Regression for Imbalanced Data Classification. *Ohsaki, M.*, +, *Sept. 2017 1806-1819*

Efficient Sensitivity Analysis for Inequality Queries in Probabilistic Databases. *Qin, B.*, +, *Jan. 2017 86-99*

Human-Powered Data Cleaning for Probabilistic Reachability Queries on Uncertain Graphs. *Lin, X.*, +, *July 2017 1452-1465*

Probabilistic Keys. *Brown, P.*, +, *March 2017 670-682*

Probabilistic Models for Ad Viewability Prediction on the Web. *Wang, C.*, +, *Sept. 2017 2012-2025*

Reachability Querying: Can It Be Even Faster?. *Su, J.*, +, *March 2017 683-697*

Reducing Uncertainty of Probabilistic Top-k Ranking via Pairwise Crowdsourcing. *Lin, X.*, +, *Oct. 2017 2290-2303*

Production

Beautiful and Damned. Combined Effect of Content Quality and Social Ties on User Engagement. *Aiello, L.M.*, +, *Dec. 2017 2682-2695*

Professional communication

Enhancing Team Composition in Professional Networks: Problem Definitions and Fast Solutions. *Li, L.*, +, *March 2017 613-626*

Proposals

Feature Grouping-Based Outlier Detection Upon Streaming Trajectories. *Mao, J.*, +, *Dec. 2017 2696-2709*

Psychology

Associated Activation-Driven Enrichment: Understanding Implicit Information from a Cognitive Perspective. *Bai, J.*, +, *Dec. 2017 2655-2668*

Detecting Stress Based on Social Interactions in Social Networks. *Lin, H.*, +, *Sept. 2017 1820-1833*

Public transportation

Feature Grouping-Based Outlier Detection Upon Streaming Trajectories. *Mao, J.*, +, *Dec. 2017 2696-2709*

Publishing

Differentially Private Data Publishing and Analysis: A Survey. *Zhu, T.*, +, *Aug. 2017 1619-1638*

Q

Quadrees

Efficient Processing of Skyline Queries Using MapReduce. *Park, Y.*, +, *May 2017 1031-1044*

Quality of service

Crowdsourced Coverage as a Service: Two-Level Composition of Sensor Cloud Services. *Neiat, A.G.*, +, *July 2017 1384-1397*

Query formulation

Large-Scale Location Prediction for Web Pages. *Hu, Y.*, +, *Sept. 2017 1902-1915*

Searching Trajectories by Regions of Interest. *Shang, S.*, +, *July 2017 1549-1562*

- VISUAL: Simulation of Visual Subgraph Query Formulation to Enable Automated Performance Benchmarking. *Bhowmick, S.S.*, +, *Aug. 2017 1765-1778*
- Query languages**
- gMark: Schema-Driven Generation of Graphs and Queries. *Bagan, G.*, +, *April 2017 856-869*
- Query processing**
- A Generic Method for Accelerating LSH-Based Similarity Join Processing. *Yu, C.*, +, *April 2017 712-726*
- An Efficient Indexing Method for Skyline Computations with Partially Ordered Domains. *Hsueh, Y.*, +, *May 2017 963-976*
- Automating Characterization Deployment in Distributed Data Stream Management Systems. *Wang, C.*, +, *Dec. 2017 2669-2681*
- BiRank: Towards Ranking on Bipartite Graphs. *He, X.*, +, *Jan. 2017 57-71*
- Continuous Top-k Monitoring on Document Streams. *U, L.H.*, +, *May 2017 991-1003*
- Differentially Private Data Publishing and Analysis: A Survey. *Zhu, T.*, +, *Aug. 2017 1619-1638*
- Discovering Newsworthy Themes from Sequenced Data: A Step Towards Computational Journalism. *Fan, Q.*, +, *July 2017 1398-1411*
- Dynamic Facet Ordering for Faceted Product Search Engines. *Vandic, D.*, +, *May 2017 1004-1016*
- Efficient Clue-Based Route Search on Road Networks. *Zheng, B.*, +, *Sept. 2017 1846-1859*
- Efficient Metric Indexing for Similarity Search and Similarity Joins. *Chen, L.*, +, *March 2017 556-571*
- Efficient Pattern-Based Aggregation on Sequence Data. *He, Z.*, +, *Feb. 2017 286-299*
- Efficient Processing of Skyline Queries Using MapReduce. *Park, Y.*, +, *May 2017 1031-1044*
- Efficient Retrieval of Bounded-Cost Informative Routes. *Li, W.*, +, *Oct. 2017 2182-2196*
- Efficient Sensitivity Analysis for Inequality Queries in Probabilistic Databases. *Qin, B.*, +, *Jan. 2017 86-99*
- Efficient Sub-Window Nearest Neighbor Search on Matrix. *Chan, T.N.*, +, *April 2017 784-797*
- Efficient Top-k Dominating Computation on Massive Data. *Han, X.*, +, *June 2017 1199-1211*
- Energy-Efficient Query Processing in Web Search Engines. *Catena, M.*, +, *July 2017 1412-1425*
- Feature Constrained Multi-Task Learning Models for Spatiotemporal Event Forecasting. *Zhao, L.*, +, *May 2017 1059-1072*
- Generating Query Facets Using Knowledge Bases. *Jiang, Z.*, +, *Feb. 2017 315-329*
- gMark: Schema-Driven Generation of Graphs and Queries. *Bagan, G.*, +, *April 2017 856-869*
- Hierarchical Contextual Attention Recurrent Neural Network for Map Query Suggestion. *Song, J.*, +, *Sept. 2017 1888-1901*
- Human-Powered Data Cleaning for Probabilistic Reachability Queries on Uncertain Graphs. *Lin, X.*, +, *July 2017 1452-1465*
- Keyword Search on Temporal Graphs. *Liu, Z.*, +, *Aug. 2017 1667-1680*
- Keyword Search over Distributed Graphs with Compressed Signature. *Yuan, Y.*, +, *June 2017 1212-1225*
- Knowledge Base Semantic Integration Using Crowdsourcing. *Meng, R.*, +, *May 2017 1087-1100*
- Learning Online Trends for Interactive Query Auto-Completion. *Wang, Y.*, +, *Nov. 2017 2442-2454*
- Local Suppression and Splitting Techniques for Privacy Preserving Publication of Trajectories. *Terrovitis, M.*, +, *July 2017 1466-1479*
- Managing Temporal Constraints with Preferences: Representation, Reasoning, and Querying. *Terenziani, P.*, +, *Sept. 2017 2067-2071*
- On Minimal Steiner Maximum-Connected Subgraph Queries. *Hu, J.*, +, *Nov. 2017 2455-2469*
- QDA: A Query-Driven Approach to Entity Resolution. *Altwaijry, H.*, +, *Feb. 2017 402-417*
- Query Expansion with Enriched User Profiles for Personalized Search Utilizing Folksonomy Data. *Zhou, D.*, +, *July 2017 1536-1548*
- Query Reorganization Algorithms for Efficient Boolean Information Filtering. *Zervakis, L.*, +, *Feb. 2017 418-432*
- Reachability Querying: Can It Be Even Faster?. *Su, J.*, +, *March 2017 683-697*
- Reducing Uncertainty of Probabilistic Top-k Ranking via Pairwise Crowdsourcing. *Lin, X.*, +, *Oct. 2017 2290-2303*
- SAP: Improving Continuous Top-K Queries Over Streaming Data. *Zhu, R.*, +, *June 2017 1310-1328*
- Searching Trajectories by Regions of Interest. *Shang, S.*, +, *July 2017 1549-1562*
- Storing, Tracking, and Querying Provenance in Linked Data. *Wylot, M.*, +, *Aug. 2017 1751-1764*
- Synopsis: A Distributed Sketch over Voluminous Spatiotemporal Observational Streams. *Buddhika, T.*, +, *Nov. 2017 2552-2566*
- Time Series Management Systems: A Survey. *Jensen, S.K.*, +, *Nov. 2017 2581-2600*
- Time-Aware Boolean Spatial Keyword Queries. *Chen, G.*, +, *Nov. 2017 2601-2614*
- Two Efficient Hashing Schemes for High-Dimensional Furthest Neighbor Search. *Huang, Q.*, +, *Dec. 2017 2772-2785*
- User Satisfaction Prediction with Mouse Movement Information in Heterogeneous Search Environment. *Chen, Y.*, +, *Nov. 2017 2470-2483*
- User-Centric Similarity Search. *Georgoulas, K.*, +, *Jan. 2017 200-213*
- Question answering (information retrieval)**
- A Multi-Objective Optimization Approach for Question Routing in Community Question Answering Services. *Cheng, X.*, +, *Sept. 2017 1779-1792*
- Data-Driven Answer Selection in Community QA Systems. *Nie, L.*, +, *June 2017 1186-1198*
- I Know What You Want to Express: Sentence Element Inference by Incorporating External Knowledge Base. *Wei, X.*, +, *Feb. 2017 344-358*
- Modeling and Learning Distributed Word Representation with Metadata for Question Retrieval. *Zhou, G.*, +, *June 2017 1226-1239*
- Scalable Algorithms for CQA Post Voting Prediction. *Yao, Y.*, +, *Aug. 2017 1723-1736*
- Temporal Interaction and Causal Influence in Community-Based Question Answering. *Wu, F.*, +, *Oct. 2017 2304-2317*
- R**
- Radiofrequency identification**
- Local Suppression and Splitting Techniques for Privacy Preserving Publication of Trajectories. *Terrovitis, M.*, +, *July 2017 1466-1479*
- Random processes**
- Classification Under Streaming Emerging New Classes: A Solution Using Completely-Random Trees. *Mu, X.*, +, *Aug. 2017 1605-1618*
- SimRank on Uncertain Graphs. *Zhu, R.*, +, *Nov. 2017 2522-2536*
- Randomized algorithms**
- Activity Maximization by Effective Information Diffusion in Social Networks. *Wang, Z.*, +, *Nov. 2017 2374-2387*
- Reachability analysis**
- Human-Powered Data Cleaning for Probabilistic Reachability Queries on Uncertain Graphs. *Lin, X.*, +, *July 2017 1452-1465*
- Reachability Querying: Can It Be Even Faster?. *Su, J.*, +, *March 2017 683-697*
- Real-time systems**
- Automating Characterization Deployment in Distributed Data Stream Management Systems. *Wang, C.*, +, *Dec. 2017 2669-2681*
- Towards Real-Time, Country-Level Location Classification of Worldwide Tweets. *Zubiaga, A.*, +, *Sept. 2017 2053-2066*
- Recommender systems**
- An Approach for Building Efficient and Accurate Social Recommender Systems Using Individual Relationship Networks. *Yan, S.*, +, *Oct. 2017 2086-2099*
- BiRank: Towards Ranking on Bipartite Graphs. *He, X.*, +, *Jan. 2017 57-71*
- Efficient Keyword-Aware Representative Travel Route Recommendation. *Wen, Y.*, +, *Aug. 2017 1639-1652*
- Enabling Kernel-Based Attribute-Aware Matrix Factorization for Rating Prediction. *Zhang, J.*, +, *April 2017 798-812*
- Fully Scalable Methods for Distributed Tensor Factorization. *Shin, K.*, +, *Jan. 2017 100-113*
- Microscopic and Macroscopic Spatio-Temporal Topic Models for Check-in Data. *Liu, Y.*, +, *Sept. 2017 1957-1970*
- RA-PARE: A Generic Strategy for Cold-Start Rating Prediction Problem. *Xu, J.*, +, *June 2017 1296-1309*
- Spatial-Aware Hierarchical Collaborative Deep Learning for POI Recommendation. *Yin, H.*, +, *Nov. 2017 2537-2551*
- Trajectory Community Discovery and Recommendation by Multi-Source Diffusion Modeling. *Liu, S.*, +, *April 2017 898-911*
- Recurrent neural networks**
- Hierarchical Contextual Attention Recurrent Neural Network for Map Query Suggestion. *Song, J.*, +, *Sept. 2017 1888-1901*
- Multi-Behavioral Sequential Prediction with Recurrent Log-Bilinear Model. *Liu, Q.*, +, *June 2017 1254-1267*

Regression analysis

Classification. *Ohsaki, M.*, +, *Sept. 2017 1806-1819*

Relational databases

NoSE: Schema Design for NoSQL Applications. *Mior, M.J.*, +, *Oct. 2017 2275-2289*

Relevance feedback

Personal Web Revisitation by Context and Content Keywords with Relevance Feedback. *Jin, L.*, +, *July 2017 1508-1521*

Reliability

A Quality-Sensitive Method for Learning from Crowds. *Zhong, J.*, +, *Dec. 2017 2643-2654*

Reservoirs

FORWARD: A Model for FOrcasting Reservoir WAtER Dynamics Using Spatial Bayesian Network (SpaBN). *Das, M.*, +, *April 2017 842-855*

Resource allocation

Efficient Processing of Skyline Queries Using MapReduce. *Park, Y.*, +, *May 2017 1031-1044*

Metric Similarity Joins Using MapReduce. *Chen, G.*, +, *March 2017 656-669*

Retail data processing

Dynamic Facet Ordering for Faceted Product Search Engines. *Vandic, D.*, +, *May 2017 1004-1016*

S**Sampling methods**

Bring Order into the Samples: A Novel Scalable Method for Influence Maximization. *Wang, X.*, +, *Feb. 2017 243-256*

Metric Similarity Joins Using MapReduce. *Chen, G.*, +, *March 2017 656-669*

Scheduling

Managing Temporal Constraints with Preferences: Representation, Reasoning, and Querying. *Terenziani, P.*, +, *Sept. 2017 2067-2071*

Search engines

Big Search in Cyberspace. *Fang, B.*, +, *Sept. 2017 1793-1805*

Dynamic Facet Ordering for Faceted Product Search Engines. *Vandic, D.*, +, *May 2017 1004-1016*

Hierarchical Contextual Attention Recurrent Neural Network for Map Query Suggestion. *Song, J.*, +, *Sept. 2017 1888-1901*

Large-Scale Location Prediction for Web Pages. *Hu, Y.*, +, *Sept. 2017 1902-1915*

Learning Online Trends for Interactive Query Auto-Completion. *Wang, Y.*, +, *Nov. 2017 2442-2454*

Personal Web Revisitation by Context and Content Keywords with Relevance Feedback. *Jin, L.*, +, *July 2017 1508-1521*

User Satisfaction Prediction with Mouse Movement Information in Heterogeneous Search Environment. *Chen, Y.*, +, *Nov. 2017 2470-2483*

Search problems

Efficient Sub-Window Nearest Neighbor Search on Matrix. *Chan, T.N.*, +, *April 2017 784-797*

Keyword Search over Distributed Graphs with Compressed Signature. *Yuan, Y.*, +, *June 2017 1212-1225*

Two Efficient Hashing Schemes for High-Dimensional Furthest Neighbor Search. *Huang, Q.*, +, *Dec. 2017 2772-2785*

User Satisfaction Prediction with Mouse Movement Information in Heterogeneous Search Environment. *Chen, Y.*, +, *Nov. 2017 2470-2483*

User-Centric Similarity Search. *Georgoulas, K.*, +, *Jan. 2017 200-213*

Security of data

Malevolent Activity Detection with Hypergraph-Based Models. *Guzzo, A.*, +, *May 2017 1115-1128*

Semantic networks

Computing Semantic Similarity of Concepts in Knowledge Graphs. *Zhu, G.*, +, *Jan. 2017 72-85*

Semantic Web

A Survey on Context Learning. *Xun, G.*, +, *Jan. 2017 38-56*

An Empirical Evaluation of Techniques for Ranking Semantic Associations. *Cheng, G.*, +, *Nov. 2017 2388-2401*

Computing Semantic Similarity of Concepts in Knowledge Graphs. *Zhu, G.*, +, *Jan. 2017 72-85*

Knowledge Base Semantic Integration Using Crowdsourcing. *Meng, R.*, +, *May 2017 1087-1100*

Linking Heterogeneous Data in the Semantic Web Using Scalable and Domain-Independent Candidate Selection. *Song, D.*, +, *Jan. 2017 143-156*

Semantics

Associated Activation-Driven Enrichment: Understanding Implicit Information from a Cognitive Perspective. *Bai, J.*, +, *Dec. 2017 2655-2668*

Knowledge Graph Embedding: A Survey of Approaches and Applications. *Wang, Q.*, +, *Dec. 2017 2724-2743*

Special Section on the International Conference on Data Engineering 2015. *Lehner, W.*, +, *March 2017 497-498*

Semisupervised learning

Scalable Graph-Based Semi-Supervised Learning through Sparse Bayesian Model. *Jiang, B.*, +, *Dec. 2017 2758-2771*

Sensor fusion

Crowdsourced Coverage as a Service: Two-Level Composition of Sensor Cloud Services. *Neiat, A.G.*, +, *July 2017 1384-1397*

IF-Matching: Towards Accurate Map-Matching with Information Fusion. *Hu, G.*, +, *Jan. 2017 114-127*

Sentiment analysis

Analyzing Sentiments in One Go: A Supervised Joint Topic Modeling Approach. *Hai, Z.*, +, *June 2017 1172-1185*

Collaboratively Training Sentiment Classifiers for Multiple Domains. *Wu, F.*, +, *July 2017 1370-1383*

Servers

Energy-Efficient Query Processing in Web Search Engines. *Catena, M.*, +, *July 2017 1412-1425*

Set theory

A Generic Method for Accelerating LSH-Based Similarity Join Processing. *Yu, C.*, +, *April 2017 712-726*

A Novel Cost-Based Model for Data Repairing. *Hao, S.*, +, *April 2017 727-742*

Extracting Kernel Dataset from Big Sensory Data in Wireless Sensor Networks. *Cheng, S.*, +, *April 2017 813-827*

Scalable Iterative Classification for Sanitizing Large-Scale Datasets. *Li, B.*, +, *March 2017 698-711*

Smart cards

Local Suppression and Splitting Techniques for Privacy Preserving Publication of Trajectories. *Terrovitis, M.*, +, *July 2017 1466-1479*

Smart homes

Learning Activity Predictors from Sensor Data: Algorithms, Evaluation, and Applications. *Minor, B.D.*, +, *Dec. 2017 2744-2757*

Social aspects of automation

Detecting Stress Based on Social Interactions in Social Networks. *Lin, H.*, +, *Sept. 2017 1820-1833*

Social network services

Activity Maximization by Effective Information Diffusion in Social Networks. *Wang, Z.*, +, *Nov. 2017 2374-2387*

An Approach for Building Efficient and Accurate Social Recommender Systems Using Individual Relationship Networks. *Yan, S.*, +, *Oct. 2017 2086-2099*

Beautiful and Damned. Combined Effect of Content Quality and Social Ties on User Engagement. *Aiello, L.M.*, +, *Dec. 2017 2682-2695*

Continuous Top-k Monitoring on Document Streams. *U, L.H.*, +, *May 2017 991-1003*

Deep Learning of Graphs with Ngram Convolutional Neural Networks. *Luo, Z.*, +, *Oct. 2017 2125-2139*

Detecting Stress Based on Social Interactions in Social Networks. *Lin, H.*, +, *Sept. 2017 1820-1833*

DRIMUX: Dynamic Rumor Influence Minimization with User Experience in Social Networks. *Wang, B.*, +, *Oct. 2017 2168-2181*

Efficient Algorithms for the Identification of Top-k Structural Hole Spanners in Large Social Networks. *Xu, W.*, +, *May 2017 1017-1030*

Efficient Distance-Aware Influence Maximization in Geo-Social Networks. *Wang, X.*, +, *March 2017 599-612*

Engagement and Popularity Dynamics of YouTube Videos and Sensitivity to Meta-Data. *Hoiles, W.*, +, *July 2017 1426-1437*

Facilitating Time Critical Information Seeking in Social Media. *Ranganath, S.*, +, *Oct. 2017 2197-2209*

Feature Constrained Multi-Task Learning Models for Spatiotemporal Event Forecasting. *Zhao, L.*, +, *May 2017 1059-1072*

Geo-Social Influence Spanning Maximization. *Li, J.*, +, *Aug. 2017 1653-1666*

Influential Node Tracking on Dynamic Social Network: An Interchange Greedy Approach. *Song, G.*, +, *Feb. 2017 359-372*

Learning Social Circles in Ego-Networks Based on Multi-View Network Structure. *Lan, C.*, +, *Aug. 2017 1681-1694*

Microscopic and Macroscopic Spatio-Temporal Topic Models for Check-in Data. *Liu, Y.*, +, *Sept. 2017 1957-1970*

Modeling Information Diffusion over Social Networks for Temporal Dynamic Prediction. *Li, D.*, +, *Sept. 2017 1985-1997*

- Modeling the Evolution of Users' Preferences and Social Links in Social Networking Services. *Wu, L., +, June 2017 1240-1253*
- Multimodal KB Harvesting for Emerging Spatial Entities. *Yeo, J., +, May 2017 1073-1086*
- Nodes' Evolution Diversity and Link Prediction in Social Networks. *Wang, H., +, Oct. 2017 2263-2274*
- On Spectral Analysis of Signed and Dispute Graphs: Application to Community Structure. *Wu, L., +, July 2017 1480-1493*
- Scaling Up Markov Logic Probabilistic Inference for Social Graphs. *Chen, H., +, Feb. 2017 433-445*
- Stochastic Blockmodeling and Variational Bayes Learning for Signed Network Analysis. *Yang, B., +, Sept. 2017 2026-2039*
- Towards Real-Time, Country-Level Location Classification of Worldwide Tweets. *Zubiaga, A., +, Sept. 2017 2053-2066*
- Trajectory Community Discovery and Recommendation by Multi-Source Diffusion Modeling. *Liu, S., +, April 2017 898-911*
- User Vitality Ranking and Prediction in Social Networking Services: A Dynamic Network Perspective. *Hong, R., +, June 2017 1343-1356*
- Using Geodesic Space Density Gradients for Network Community Detection. *Mahmood, A., +, April 2017 921-935*
- Wellness Representation of Users in Social Media: Towards Joint Modelling of Heterogeneity and Temporality. *Akbari, M., +, Oct. 2017 2360-2373*
- Social sciences**
- Bring Order into the Samples: A Novel Scalable Method for Influence Maximization. *Wang, X., +, Feb. 2017 243-256*
- Enhancing Team Composition in Professional Networks: Problem Definitions and Fast Solutions. *Li, L., +, March 2017 613-626*
- Software metrics**
- Metric Similarity Joins Using MapReduce. *Chen, G., +, March 2017 656-669*
- Software reliability**
- Metric Similarity Joins Using MapReduce. *Chen, G., +, March 2017 656-669*
- Space-time codes**
- A Non-Parametric Algorithm for Discovering Triggering Patterns of Spatio-Temporal Event Types. *Batu, B.B., +, Dec. 2017 2629-2642*
- Sparse matrices**
- Semiring Rank Matrix Factorization. *Le Van, T., +, Aug. 2017 1737-1750*
- Spatiotemporal phenomena**
- FORWARD: A Model for FOrcasting Reservoir WAtER Dynamics Using Spatial Bayesian Network (SpaBN). *Das, M., +, April 2017 842-855*
- Special issues and sections**
- Special Section on the International Conference on Data Engineering 2015. *Lehner, W., +, March 2017 497-498*
- Spectral analysis**
- On Spectral Analysis of Signed and Dispute Graphs: Application to Community Structure. *Wu, L., +, July 2017 1480-1493*
- Speech processing**
- Understand Short Texts by Harvesting and Analyzing Semantic Knowledge. *Hua, W., +, March 2017 499-512*
- Speech recognition**
- Deep Learning of Graphs with Ngram Convolutional Neural Networks. *Luo, Z., +, Oct. 2017 2125-2139*
- SQL**
- QDA: A Query-Driven Approach to Entity Resolution. *Altwaijry, H., +, Feb. 2017 402-417*
- Standards**
- Enhancing Binary Classification by Modeling Uncertain Boundary in Three-Way Decisions. *Li, Y., +, July 2017 1438-1451*
- Statistical analysis**
- Bag-of-Discriminative-Words (BoDW) Representation via Topic Modeling. *Zhuang, Y., +, May 2017 977-990*
- Beyond Trace Ratio: Weighted Harmonic Mean of Trace Ratios for Multiclass Discriminant Analysis. *Li, Z., +, Oct. 2017 2100-2110*
- Dependency Analysis of Accuracy Estimates in k-Fold Cross Validation. *Wong, T., +, Nov. 2017 2417-2427*
- Knowledge Graph Embedding: A Survey of Approaches and Applications. *Wang, Q., +, Dec. 2017 2724-2743*
- Pre-Processing Censored Survival Data Using Inverse Covariance Matrix Based Calibration. *Vinzamuri, B., +, Oct. 2017 2111-2124*
- Temporal Interaction and Causal Influence in Community-Based Question Answering. *Wu, F., +, Oct. 2017 2304-2317*
- Uncertainty Quantification in Mathematics-Embedded Ontologies Using Stochastic Reduced Order Model. *Li, X., +, April 2017 912-920*
- Statistical distributions**
- Guided HTM: Hierarchical Topic Model with Dirichlet Forest Priors. *Shin, S., +, Feb. 2017 330-343*
- Sparse Poisson Latent Block Model for Document Clustering. *Ailem, M., +, July 2017 1563-1576*
- Statistical testing**
- Causal Decision Trees. *Li, J., +, Feb. 2017 257-271*
- Stochastic processes**
- A Non-Parametric Algorithm for Discovering Triggering Patterns of Spatio-Temporal Event Types. *Batu, B.B., +, Dec. 2017 2629-2642*
- Sparse Poisson Latent Block Model for Document Clustering. *Ailem, M., +, July 2017 1563-1576*
- Stochastic Blockmodeling and Variational Bayes Learning for Signed Network Analysis. *Yang, B., +, Sept. 2017 2026-2039*
- Uncertainty Quantification in Mathematics-Embedded Ontologies Using Stochastic Reduced Order Model. *Li, X., +, April 2017 912-920*
- Wellness Representation of Users in Social Media: Towards Joint Modelling of Heterogeneity and Temporality. *Akbari, M., +, Oct. 2017 2360-2373*
- Storage management**
- Efficient Metric Indexing for Similarity Search and Similarity Joins. *Chen, L., +, March 2017 556-571*
- Synopsis: A Distributed Sketch over Voluminous Spatiotemporal Observational Streams. *Buddhika, T., +, Nov. 2017 2552-2566*
- String matching**
- A Novel Cost-Based Model for Data Repairing. *Hao, S., +, April 2017 727-742*
- LS-Join: Local Similarity Join on String Collections. *Wang, J., +, Sept. 2017 1928-1942*
- Supervised learning**
- A Quality-Sensitive Method for Learning from Crowds. *Zhong, J., +, Dec. 2017 2643-2654*
- Support vector machines**
- A Quality-Sensitive Method for Learning from Crowds. *Zhong, J., +, Dec. 2017 2643-2654*
- Enhancing Binary Classification by Modeling Uncertain Boundary in Three-Way Decisions. *Li, Y., +, July 2017 1438-1451*
- Learning Bregman Distance Functions for Structural Learning to Rank. *Li, X., +, Sept. 2017 1916-1927*
- Systematics**
- Knowledge Graph Embedding: A Survey of Approaches and Applications. *Wang, Q., +, Dec. 2017 2724-2743*

T

Team working

Enhancing Team Composition in Professional Networks: Problem Definitions and Fast Solutions. *Li, L., +, March 2017 613-626*

Temporal databases

Synopsis: A Distributed Sketch over Voluminous Spatiotemporal Observational Streams. *Buddhika, T., +, Nov. 2017 2552-2566*

Temporal logic

Managing Temporal Constraints with Preferences: Representation, Reasoning, and Querying. *Terenziani, P., +, Sept. 2017 2067-2071*

Temporal reasoning

Managing Temporal Constraints with Preferences: Representation, Reasoning, and Querying. *Terenziani, P., +, Sept. 2017 2067-2071*

Tensors

Fully Scalable Methods for Distributed Tensor Factorization. *Shin, K., +, Jan. 2017 100-113*

SSE: Semantically Smooth Embedding for Knowledge Graphs. *Guo, S., +, April 2017 884-897*

Text analysis

A Web Services Discovery Approach Based on Mining Underlying Interface Semantics. *Cheng, B., +, May 2017 950-962*

An Empirical Evaluation of Techniques for Ranking Semantic Associations. *Cheng, G., +, Nov. 2017 2388-2401*

Associated Activation-Driven Enrichment: Understanding Implicit Information from a Cognitive Perspective. *Bai, J., +, Dec. 2017 2655-2668*

Bayesian Nonparametric Relational Topic Model through Dependent Gamma Processes. *Xuan, J., +, July 2017 1357-1369*

Efficient Keyword-Aware Representative Travel Route Recommendation. *Wen, Y., +, Aug. 2017 1639-1652*

Finding Related Forum Posts through Content Similarity over Intention-Based Segmentation. *Papadimitriou, D., +, Sept. 2017 1860-1873*

Modeling and Learning Distributed Word Representation with Metadata for Question Retrieval. *Zhou, G., +, June 2017 1226-1239*

Multimodal KB Harvesting for Emerging Spatial Entities. *Yeo, J., +, May 2017 1073-1086*

Probase+: Inferring Missing Links in Conceptual Taxonomies. *Liang, J., +, June 2017 1281-1295*

Query Expansion with Enriched User Profiles for Personalized Search Utilizing Folksonomy Data. *Zhou, D.*, +, *July 2017 1536-1548*
 Sparse Poisson Latent Block Model for Document Clustering. *Ailem, M.*, +, *July 2017 1563-1576*
 Understand Short Texts by Harvesting and Analyzing Semantic Knowledge. *Hua, W.*, +, *March 2017 499-512*

Text mining

Associated Activation-Driven Enrichment: Understanding Implicit Information from a Cognitive Perspective. *Bai, J.*, +, *Dec. 2017 2655-2668*

Time factors

Energy-Efficient Query Processing in Web Search Engines. *Catena, M.*, +, *July 2017 1412-1425*

Time series

Online Multi-Task Learning Framework for Ensemble Forecasting. *Xu, J.*, +, *June 2017 1268-1280*
 Time Series Management Systems: A Survey. *Jensen, S.K.*, +, *Nov. 2017 2581-2600*

Traffic engineering computing

A Systematic Approach to Clustering Whole Trajectories of Mobile Objects in Road Networks. *Han, B.*, +, *May 2017 936-949*
 Signature-Based Trajectory Similarity Join. *Ta, N.*, +, *April 2017 870-883*

Traffic information systems

Citywide Traffic Volume Estimation Using Trajectory Data. *Zhan, X.*, +, *Feb. 2017 272-285*
 Efficient Clue-Based Route Search on Road Networks. *Zheng, B.*, +, *Sept. 2017 1846-1859*

Training

Enhancing Binary Classification by Modeling Uncertain Boundary in Three-Way Decisions. *Li, Y.*, +, *July 2017 1438-1451*
 Learning Activity Predictors from Sensor Data: Algorithms, Evaluation, and Applications. *Minor, B.D.*, +, *Dec. 2017 2744-2757*
 Scalable Graph-Based Semi-Supervised Learning through Sparse Bayesian Model. *Jiang, B.*, +, *Dec. 2017 2758-2771*

Trajectory

Feature Grouping-Based Outlier Detection Upon Streaming Trajectories. *Mao, J.*, +, *Dec. 2017 2696-2709*

Travel industry

Efficient Keyword-Aware Representative Travel Route Recommendation. *Wen, Y.*, +, *Aug. 2017 1639-1652*

Tree data structures

Efficient Clue-Based Route Search on Road Networks. *Zheng, B.*, +, *Sept. 2017 1846-1859*
 Metric Similarity Joins Using MapReduce. *Chen, G.*, +, *March 2017 656-669*
 Time-Aware Boolean Spatial Keyword Queries. *Chen, G.*, +, *Nov. 2017 2601-2614*

Tree searching

An Efficient Indexing Method for Skyline Computations with Partially Ordered Domains. *Hsueh, Y.*, +, *May 2017 963-976*
 Efficient Clue-Based Route Search on Road Networks. *Zheng, B.*, +, *Sept. 2017 1846-1859*
 Geo-Social Influence Spanning Maximization. *Li, J.*, +, *Aug. 2017 1653-1666*

Trees (mathematics)

An Efficient Indexing Method for Skyline Computations with Partially Ordered Domains. *Hsueh, Y.*, +, *May 2017 963-976*
 Classification Under Streaming Emerging New Classes: A Solution Using Completely-Random Trees. *Mu, X.*, +, *Aug. 2017 1605-1618*
 Crowdsourced Coverage as a Service: Two-Level Composition of Sensor Cloud Services. *Neiat, A.G.*, +, *July 2017 1384-1397*
 Efficient Metric Indexing for Similarity Search and Similarity Joins. *Chen, L.*, +, *March 2017 556-571*
 Efficient Sensitivity Analysis for Inequality Queries in Probabilistic Databases. *Qin, B.*, +, *Jan. 2017 86-99*
 Knowledge Base Semantic Integration Using Crowdsourcing. *Meng, R.*, +, *May 2017 1087-1100*

U

Ubiquitous computing

Big Search in Cyberspace. *Fang, B.*, +, *Sept. 2017 1793-1805*

Scalable Iterative Classification for Sanitizing Large-Scale Datasets. *Li, B.*, +, *March 2017 698-711*

Uncertainty

Enhancing Binary Classification by Modeling Uncertain Boundary in Three-Way Decisions. *Li, Y.*, +, *July 2017 1438-1451*
 Uncertainty Quantification in Mathematics-Embedded Ontologies Using Stochastic Reduced Order Model. *Li, X.*, +, *April 2017 912-920*

Unsupervised learning

Classification Under Streaming Emerging New Classes: A Solution Using Completely-Random Trees. *Mu, X.*, +, *Aug. 2017 1605-1618*
 Linking Heterogeneous Data in the Semantic Web Using Scalable and Domain-Independent Candidate Selection. *Song, D.*, +, *Jan. 2017 143-156*
 Multi-View Unsupervised Feature Selection with Adaptive Similarity and View Weight. *Hou, C.*, +, *Sept. 2017 1998-2011*
 Unsupervised Visual Hashing with Semantic Assistant for Content-Based Image Retrieval. *Zhu, L.*, +, *Feb. 2017 472-486*

User modeling

Modeling the Evolution of Users' Preferences and Social Links in Social Networking Services. *Wu, L.*, +, *June 2017 1240-1253*

V

Vectors

BiRank: Towards Ranking on Bipartite Graphs. *He, X.*, +, *Jan. 2017 57-71*
 Manifold Learning by Curved Cosine Mapping. *Gu, H.*, +, *Oct. 2017 2236-2248*
 Modeling and Learning Distributed Word Representation with Metadata for Question Retrieval. *Zhou, G.*, +, *June 2017 1226-1239*

Video signal processing

Engagement and Popularity Dynamics of YouTube Videos and Sensitivity to Meta-Data. *Hoiles, W.*, +, *July 2017 1426-1437*

Visualization

Beautiful and Damned. Combined Effect of Content Quality and Social Ties on User Engagement. *Aiello, L.M.*, +, *Dec. 2017 2682-2695*

W

Web search

Energy-Efficient Query Processing in Web Search Engines. *Catena, M.*, +, *July 2017 1412-1425*

Web services

Matching Heterogeneous Events with Patterns. *Song, S.*, +, *Aug. 2017 1695-1708*

Web sites

Large-Scale Location Prediction for Web Pages. *Hu, Y.*, +, *Sept. 2017 1902-1915*
 Personal Web Revisitation by Context and Content Keywords with Relevance Feedback. *Jin, L.*, +, *July 2017 1508-1521*
 RA-PARE: A Generic Strategy for Cold-Start Rating Prediction Problem. *Xu, J.*, +, *June 2017 1296-1309*
 Search Rank Fraud and Malware Detection in Google Play. *Rahman, M.*, +, *June 2017 1329-1342*
 Temporal Interaction and Causal Influence in Community-Based Question Answering. *Wu, F.*, +, *Oct. 2017 2304-2317*

Wireless sensor networks

Crowdsourced Coverage as a Service: Two-Level Composition of Sensor Cloud Services. *Neiat, A.G.*, +, *July 2017 1384-1397*
 Extracting Kernel Dataset from Big Sensory Data in Wireless Sensor Networks. *Cheng, S.*, +, *April 2017 813-827*

Word processing

Modeling and Learning Distributed Word Representation with Metadata for Question Retrieval. *Zhou, G.*, +, *June 2017 1226-1239*

Workflow management software

A Proactive Workflow Model for Healthcare Operation and Management. *Liu, C.*, +, *March 2017 586-598*