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| fp0024 | Scenic Routes Now: Efficiently Solving the Time-Dependent Arc Orienteering Problem | Ying Lu (University of Southern California); Gregor Josse (LMU Munich); Tobias Emrich (LMU Munich); Ugur Demiryurek (University of Southern California); Matthias Renz (George Mason University); Cyrus Shahabi (University of Southern California); Matthias Schubert (LMU Munich) |
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| fp0115 | FM-Hawkes: A Hawkes Process Based Approach for Modeling Online Activity Correlations | Sha Li (Shanghai Jiao Tong University); Xiaofeng Gao (Shanghai Jiao Tong University); Weiming Bao (Shanghai Jiao Tong University); Guihai Chen (Shanghai Jiao Tong University) |
| fp0116 | On Migratory Behavior in Video Consumption | Huan Yan (Tsinghua University); Tzu-Heng Lin (Tsinghua University); Gang Wang (Virginia Tech); Yong Li (Tsinghua University); Haitao Zheng (University of Chicago); Depeng Jin (Tsinghua University); Ben Y. Zhao (University of Chicago) |
| fp0128 | On Embedding Uncertain Graphs | Jiafeng Hu (University of Hong Kong); Reynold Cheng (University of Hong Kong); Zhipeng Huang (University of Hong Kong); Yixang Fang (University of Hong Kong); Siqiang Luo (University of Hong Kong) |
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| fp1390 | Outlier Detection in Sparse Data with Factorization Machines | Mengxiao Zhu (Beihang University & Beijing Advanced Innovation Center for Big Data and Brain Computing); Charu C. Aggarwal (IBM T. J. Watson Research Center); Shuai Ma (Beihang University & Beijing Advanced Innovation Center for Big Data and Brain Computing); Hui Zhang (Beihang University & Beijing Advanced Innovation Center for Big Data and Brain Computing); Jinpeng Huai (Beihang University & Beijing Advanced Innovation Center for Big Data and Brain Computing) |
| fp1402 | Linking News across Multiple Streams for Timeliness Analysis | Ida Mele (Universita' della Svizzera italiana (USI)); Seyed Ali Bahrainian (Universita' della Svizzera italiana (USI)); Fabio Crestani (Universita' della Svizzera italiana (USI)) |
| fp1417 | A Neural Candidate-Selector Architecture for Automatic Structured Clinical Text Annotation | Gaurav Singh (University College London); Iain J. Marshall (Kings College London); James Thomas (University College London); John Shawe-Taylor (University College London); Byron C. Wallace (Northeastern University) |
| fp1419 | Privacy-Preserving Collaborative Deep Learning with Application to Human Activity Recognition | Lingjuan Lyu (University of Melbourne); Xuanli He (University of Melbourne); Yee Wei Law (University of South Australia); Marimuthu Palaniswami (University of Melbourne) |
| fp1427 | To Be Connected, or Not to Be Connected: That is the Minimum Inefficiency Subgraph Problem | Natali Ruchansky (University of Southern California); Francesco Bonchi (ISI Foundation); David Garcia-Soriano (Universidad Pompeu Fabra); Francesco Gullo (UniCredit); Nicolas Kourtellis (Telefonica Research) |
| fp1433 | Relaxing Graph Pattern Matching With Explanations | Jia Li (Beihang University); Yang Cao (University of Edinburgh & Beihang University); Shuai Ma (Beihang University) |
| fp1436 | Core Decomposition and Densest Subgraph in Multilayer Networks | Edoardo Galimberti (ISI Foundation & University of Turin); Francesco Bonchi (ISI Foundation); Francesco Gullo (UniCredit) |
| fp1464 | Selective Value Coupling Learning for Detecting Outliers in High-Dimensional Categorical Data | Guansong Pang (University of Technology Sydney); Hongzuo Xu (National University of Defense Technology); Longbing Cao (University of Technology Sydney); Wentao Zhao (National University of Defense Technology) |

| fp1465 | iFACT: An Interactive Framework to Assess Claims from Tweets | Wee Yong Lim (National University of Singapore);  Mong Li Lee (National University of Singapore);  Wynne Hsu (National University of Singapore) |
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| fp1472 | Spatiotemporal Event Forecasting from Incomplete Hyper-local Price Data | Xuchao  Zhang (Virginia Tech);  Liang  Zhao (George Mason University);  Arnold P. Boedihardjo (U. S. Army Corps of Engineers);  Chang-Tien  Lu (Virginia Tech);  Naren Ramakrishnan (Virginia Tech) |
| fp1481 | LARM: A Lifetime Aware Regression Model for Predicting YouTube Video Popularity | Changsha  Ma (State University of New York at Buffalo);  Zhisheng  Yan (Georgia State University);  Chang Wen Chen (State University of New York at Buffalo) |
| fp1500 | From Fingerprint to Footprint: Revealing Physical World Privacy Leakage by Cyberspace Cookie Logs | Huandong  Wang (Tsinghua University);  Chen Gao (Tsinghua University);  Yong  Li (Tsinghua University);  Zhi-Li  Zhang (University of Minnesota);  Depeng  Jin (Tsinghua University) |
| fp1514 | Unsupervised Feature Selection with Joint Clustering Analysis | Shuai  An (Nankai University);  Jun  Wang (Nankai University);  Jinmao  Wei (Nankai University);  Zhenglu  Yang (Nankai University) |
| fp1517 | A Comparison of Nuggets and Clusters for Evaluating Timeline Summaries | Gaurav  Baruah (University of Waterloo);  Richard  McCreadie (University of Glasgow);  Jimmy  Lin (University of Waterloo) |
| fp1524 | Deep Sequential Models for Task Satisfaction Prediction | Rishabh  Mehrotra (University College London);  Ahmed Hassan Awadallah (Microsoft Research);  Milad  Shokouhi (Microsoft Inc.);  Emine  Yilmaz (University College London);  Imed  Zitouni (Microsoft Inc.);  Ahmed  El Kholy (Microsoft Inc);  Madian  Khabsa (Microsoft Reearch) |
| fp1534 | Budgeted Task Scheduling for Crowdsourced Knowledge Acquisition | Tao  Han (Beihang University);  Hailong  Sun (Beihang University);  Yangqiu  Song (Hong Kong University of Science and Technology);  Zizhe  Wang (Beihang University);  Xudong  Liu (Beihang University) |
| fp1542 | A Scalable Graph-Coarsening Based Index for Dynamic Graph Databases | Akshay  Kansal (Boise State University);  Francesca  Spezzano (Boise State University) |
| fp1553 | Highly Efficient Mining of Overlapping Clusters in Signed Weighted Networks | Tuan-Anh Hoang  Hoang (Leibniz University of Hanover);  Ee-Peng Lim  Lim (Singapore Management University) |

| fp1569 | Interacting Attention-gated Recurrent Networks for Recommendation | Wenjie Pei (Delft University of Technology); Jie Yang (Delft University of Technology); Zhu Sun (Nanyang Technological University); Jie Zhang (Nanyang Technological University); Alessandro Bozzon (Delft University of Technology); David M.J. Tax (Delft University of Technology) |
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| fp1592 | Region Representation Learning via Mobility Flow | Hongjian Wang (Pennsylvania State University); Zhenhui Li (Pennsylvania State University) |
| fp1618 | SOPER: Discovering the Influence of Fashion and the Many Faces of User from Session Logs using Stick Breaking Process | Lucky Dhakad (Flipkart); Mrinal Das (Indian Institute of Technology & University of Massachusetts Amherst); Chiranjib Bhattacharyya (Indian Institute of Science); Samik Datta (Flipkart Internet ); Mihir Kale (Flipkart Internet ); Vivek Mehta (Flipkart Internet ) |
| fp1643 | Nationality Classification Using Name Embeddings | Junting Ye (Stony Brook University); Shuchu Han (NEC Labs America); Yifan Hu (Yahoo! Research); Baris Coskun (Amazon AI); Meizhu Liu (Yahoo! Research); Hong Qin (Stony Brook University); Steven Skiena (Stony Brook University) |
| fp1656 | Building Natural Language Interfaces to Web APIs | Yu Su (University of California Santa Barbara); Ahmed Hassan Awadallah (Microsoft Research); Madian Khabsa (Microsoft Research); Patrick Pantel (Microsoft Research ); Michael Gamon (Microsoft Research ); Mark Encarnacion (Microsoft Research ) |
| fp1676 | Learning to Attend, Copy, and Generate for Session-Based Query Suggestion | Mostafa Dehghani (University of Amsterdam); Sascha Rothe (Google Research); Enrique Alfonseca (Google Research); Pascal Fleury (Google Research) |
| fp1678 | Regularized and Retrofitted models for Learning Sentence Representation with Context | Tanay Kumar Saha (Indiana University Purdue University Indianapolis); Shafiq Joty (Nanyang Technological University); Naeemul Hassan (University of Mississippi ); Mohammad Al Hasan (Indiana University Purdue University Indianapolis) |
| fp1687 | Efficient Computation of Subspace Skyline over Categorical Domains | Md Farhadur Rahman (University of Texas at Arlington); Abolfazl Asudeh (University of Texas at Arlington); Nick Koudas (University of Toronto); Gautam Das (University of Texas at Arlington) |

| fp1688 | Minimizing Tension in Teams | Behzad Golshan (Recruit Institute of Technology & Boston University); Evimaria Terzi (Boston University) |
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| fp1710 | Discovering Graph Temporal Association Rules | Mohammad Hossein Namaki (Washington State University); Yinghui Wu (Washington State University & Pacific Northwest National Laboratory); Qi Song (Washington State University); Peng Lin (Washington State University); Tingjian Ge (University of Massachusetts) |
| fp1728 | Active Sampling for Large-scale Information Retrieval Evaluation | Dan Li (University of Amsterdam); Evangelos Kanoulas (University of Amsterdam) |
| fp1737 | Efficient Document Filtering Using Vector Space Topic Expansion and Pattern-Mining | Julia Proskurnia (École Polytechnique Fédérale de Lausanne ); Ruslan Mavlyutov (University of Fribourg); Carlos Castillo (Universitat Pompeu Fabra); Karl Aberer (École Polytechnique Fédérale de Lausanne); Philippe Cudré-Mauroux (University of Fribourg) |
| fp1738 | Forecasting Ad-Impressions on Online Retail Websites using Non-homogeneous Hawkes Processes | Krunal Parmar (Indian Institute of Technology); Samuel Bushi (Indian Institute of Technology); Sourangshu Bhattacharya (Indian Institute of Technology); Surender Kumar (Flipkart) |
| fp1742 | HoloScope: Topology-and-Spike Aware Fraud Detection | Shenghua Liu (Institute of Computing Technology, Chinese Academy of Sciences & Carnegie Mellon University); Bryan Hooi (Carnegie Mellon University); Christos Faloutsos (Carnegie Mellon University) |
| fp1800 | Understanding and Predicting Weight Loss with Mobile Social Networking Data | Zhiwei Wang (Michigan State University); Tyler Derr (Michigan State University); Dawei Yin (JD.com); Jiliang Tang (Michigan State University) |
| fp1821 | Weakly-Guided User Stance Prediction via Joint Modeling of Content and Social Interaction | Rui Dong (Northeastern University); Yizhou Sun (University of California, Los Angeles); Lu Wang (Northeastern University); Yupeng Gu (University of California, Los Angeles); Yuan Zhong (Northeastern University) |

| fp1823 | An Attention-based Collaboration Framework for Multi-View Network Representation Learning | Meng Qu (University of Illinois at Urbana-Champaign); Jian Tang (HEC Montreal & Montreal Institute of Learning Algorithms); Jingbo Shang (University of Illinois at Urbana-Champaign); Xiang Ren (University of Illinois at Urbana-Champaign); Ming Zhang (Peking University); Jiawei Han (University of Illinois at Urbana-Champaign) |
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| fp1854 | Fine-grained Patient Similarity Measuring using Deep Metric Learning | Jiazhi Ni (Institute of Software, Chinese Academy of Sciences & University of Chinese Academy of Sciences); Jie Liu (Institute of Software, Chinese Academy of Sciences); Chenxin Zhang (Institute of Software, Chinese Academy of Sciences & University of Chinese Academy of Sciences); Dan Ye (Institute of Software, Chinese Academy of Sciences); Zhirou Ma (Institute of Software, Chinese Academy of Sciences) |
| fp1860 | Unsupervised Concept Categorization and Extraction from Scientific Document Titles | Adit Krishnan (University of Illinois at Urbana-Champaign); Aravind Sankar (University of Illinois at Urbana-Champaign); Shi Zhi (University of Illinois at Urbana-Champaign); Jiawei Han (University of Illinois at Urbana-Champaign) |
| fp1870 | Modeling Temporal-Spatial Correlations for Crime Prediction | Xiangyu Zhao (Michigan State University); Dawei Yin (JD.com ); Jiliang Tang (Michigan State University) |
| fp1885 | Returning is Believing: Optimizing Long-term User Engagement in Recommender Systems | Qingyun Wu (University of Virginia); Hongning Wang (University of Virginia); Liangjie Hong (Etsy Inc.); Yue Shi (Yahoo Research) |
| fp1901 | BL-ECD: Broad Learning based Enterprise Community Detection via Hierarchical Structure Fusion | Jiawei Zhang (Florida State University); Limeng Cui (University of Chinese Academy of Sciences); Philip S. Yu (University of Illinois at Chicago); Yuanhua Lv (Microsoft) |
| fp1914 | Detecting Multiple Periods and Periodic Patterns in Event Time Sequences | Quan Yuan (University of Illinois at Urbana-Champaign); Jingbo Shang (University of Illinois at Urbana-Champaign); Xin Cao (University of New South Wales); Chao Zhang (University of Illinois at Urbana-Champaign); Xinhe Geng (University of Illinois at Urbana-Champaign); Jiawei Han (University of Illinois at Urbana-Champaign) |

| fp1917 | Fast Word Recognition for Noise channel-based Models in Scenarios with Noise Specific Domain Knowledge | Marco Cristo (Federal University of Amazonas); RaÃ-za Hanada (University of Sao Paulo); André L. Carvalho (Federal University of Amazonas); Fernando Anglada Lores (Federal University of Amazonas); Maria da Graça Campos Pimentel (University of Sao Paulo) |
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| fp1948 | Distant Meta-Path Similarities for Text-Based Heterogeneous Information Networks | Chenguang Wang (IBM Research-Almaden); Yangqiu Song (Hong Kong University of Science and Technology); Haoran Li (Peking University); Yizhou Sun (University of California, Los Angeles); Ming Zhang (Peking University); Jiawei Han (University of Illinois at Urbana-Champaign) |
| fp1987 | Jointly Modeling Static Visual Appearance and Temporal Pattern for Unsupervised Video Hashing | Chao Li (University of Queensland); Yang Yang (University of Electronic Science and Technology of China); Jiewei Cao (University of Queensland); Zi Huang (University of Queensland) |
| fp1994 | Deep Learning Based Forecasting of Critical Infrastructure Data | Zahra Zohrevand (Simon Fraser University); Uwe Glässer (Simon Fraser University); Mohammad A. Tayebi (Simon Fraser University); Hamed Yaghoubi Shahir (Simon Fraser University); Mehdi Shirmaleki (Simon Fraser University); Amir Yaghoubi Shahir (Simon Fraser University) |
| fp2017 | Similarity-based Distant Supervision for Definition Retrieval | Jiepu Jiang (University of Massachusetts Amherst); James Allan (University of Massachusetts Amherst) |
| fp2019 | Adaptive Persistence for Search Effectiveness Measures | Jiepu Jiang (University of Massachusetts Amherst); James Allan (University of Massachusetts Amherst) |
| fp2026 | Recommendation with Capacity Constraints | Konstantina Christakopoulou (University of Minnesota); Jaya Kawale (Netflix); Arindam Banerjee (University of Minnesota) |
| fp2043 | Does That Mean You're Happy? | Kyle Williams (Microsoft); Imed Zitouni (Microsoft) |
| fp2085 | A Deep Recurrent Collaborative Filtering Framework for Venue Recommendation | Jarana Manotumruksa (University of Glasgow); Craig Macdonald (University of Glasgow); Iadh Ounis (University of Glasgow) |

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| fp2086 | Aspect-level Sentiment Classification with HEAT (HiErarchical ATtention) Network | Jiajun  Cheng (National University of Defense Technology);  Shenglin  Zhao (Chinese University of Hong Kong);  Jiani  Zhang (Chinese University of Hong Kong);  Irwin  King (Chinese University of Hong Kong);  Xin  Zhang (National University of Defense Technology);  Hui  Wang (National University of Defense Technology) |
| fp2087 | Scaling Probabilistic Temporal Query Evaluation | Melisachew Wudage Chekol (University of Mannheim) |
| fp2143 | Sybil Defense in Crowdsourcing Platforms | Dong  Yuan (Tsinghua University);  Guoliang  Li (Tsinghua University);  Qi  Li (Tsinghua University);  Yudian  Zheng (University of Hong Kong) |
| fp2146 | Learning to Un-Rank: Quantifying Search Exposure for Users in Online Communities | Asia J. Biega (Max Planck Institute for Informatics);  Azin  Ghazimatin (Max Planck Institute for Informatics);  Hakan Ferhatosmanoglu (University of Warwick);  Krishna P. Gummadi (Max Planck Institute for Software Systems);  Gerhard  Weikum (Max Planck Institute for Informatics) |
| fp2150 | Taxonomy Induction Using Hypernym Subsequences | Amit  Gupta (Ecole Polytechnique Fédérale de Lausanne );  Rémi Philippe Lebret (Ecole Polytechnique Fédérale de Lausanne );  Hamza Harkous (Ecole Polytechnique Fédérale de Lausanne );  Karl  Aberer (Ecole Polytechnique Fédérale de Lausanne ) |
| fp2176 | Stream Aggregation Through Order Sampling | Nick  Duffield (Texas A&M University); Yunhong  Xu (Texas A&M University); Liangzhen  Xia (Texas A&M University); Nesreen K. Ahmed (Intel Labs);  Minlan  Yu (Yale University) |