Conference Track

Tuesday, November 7th

	Session 1A: Multimedia		Venue
10:30-12:00	1987	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)	Ocean 3
	1324	Construction of a National Scale ENF Map using Online Multimedia Data -- Hyunsoo Kim (Korea University); Youngbae Jeon (Korea University); Ji Won Yoon (Korea University)	
	394	Dual Learning for Cross-domain Image Captioning -- Wei Zhao (Chinese Academy of Sciences & University of Chinese Academy of Sciences); Wei Xu (Tencent); Min Yang (Chinese Academy of Sciences & Tencent AI Lab); Jianbo Ye (Pennsylvania State University); Zhou Zhao (Zhejiang University); Yabing Feng (Tencent); Yu Qiao (Chinese Academy of Sciences)	
	12	A New Approach to Compute CNNs for Extremely Large Images -- Sai Wu (Zhejiang University); Mengdan Zhang (Zhejiang University); Gang Chen (Zhejiang University); Ke Chen (Zhejiang University)	

	Session 1B: IR evaluation		
10:30-12:00	1728	Active Sampling for Large-scale Information Retrieval Evaluation -- Dan Li (University of Amsterdam); Evangelos Kanoulas (University of Amsterdam)	Pacific 1
	2187	Intent Based Relevance Estimation from Click Logs -- Prakash Mandayam Comar (amazon.com); Srinivasan H. Sengamedu (amazon.com)	
	1517	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)	
	174	Sensitive and Scalable Online Evaluation with Theoretical Guarantees -- Harrie Oosterhuis (University of Amsterdam); Maarten de Rijke (University of Amsterdam)	

	Session 1C: Sentiment		
10:30-12:00	180	Users Are Known by the Company They Keep: Topic Models for Viewpoint Discovery in Social Networks -- Thibaut Thonet (IRIT, Université de Toulouse, CNRS); Guillaume Cabanac (IRIT, Université de Toulouse, CNRS); Mohand Boughanem (IRIT, Université de Toulouse, CNRS); Karen Pinel-Sauvagnat (IRIT, Université de Toulouse, CNRS)	Ocean 4
	2086	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)	
	557	Dyadic Memory Networks for Aspect-based Sentiment Analysis -- Yi Tay (Nanyang Technological University); Anh Tuan Luu (Agency for Science and Technology Research (A*Star) Singapore); Siu Cheung Hui (Nanyang Technological University)	

	317	Modeling Language Discrepancy for Cross-Lingual Sentiment Analysis -- Qiang Chen (Tencent); Chenliang Li (Wuhan University); Wenjie Li (The Hong Kong Polytechnic University)	
10:30-12:00	**Session 1D: Network Embedding 1**		
	285	Multi-view Clustering with Graph Embedding for Connectome Analysis -- Guixiang Ma (University of Illinois at Chicago); Lifang He (University of Illinois at Chicago); Chun-Ta Lu (University of Illinois at Chicago); Weixiang Shao (Google Inc); Philip S Yu (University of Illinois at Chicago & Fudan University); Alex D Leow (University of Illinois at Chicago); Ann B Ragin (Northwestern University)	Ocean 5
	236	Attributed Signed Network Embedding -- Suhang Wang (Arizona State University); Charu Aggarwal (IBM T. J. Watson Research Center); Jiliang Tang (Michigan State University); Huan Liu (Arizona State University)	
	203	Enhancing the Network Embedding Quality with Structural Similarity -- Tianshu Lyu (Peking University); Yuan Zhang (Peking University); Yan Zhang (Peking University)	
	128	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)	
10:30-12:00	**Session 1E: Web/App data**		
	1956	A Large Scale Prediction Engine for App Install Clicks and Conversions -- Narayan Bhamidipati (Yahoo Research); Ravi Kant (Yahoo Research); Shaunak Mishra (Yahoo Research)	Pacific 3
	1656	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)	
	141	UFeed: Refining Web Data Integration Based on User Feedback -- Ahmed El-Roby (University of Waterloo); Ashraf Aboulnaga (Qatar Computing Research Institute)	
	37	Extracting Records from the Web Using a Signal Processing Approach -- Roberto Panerai Velloso (Universidade Federal de Santa Catarina - UFSC); Carina F. Dorneles (Universidade Federal de Santa Catarina - UFSC)	
10:30-12:00	**Session 1F: Graph data**		
	1542	A Scalable Graph-Coarsening Based Index for Dynamic Graph Databases -- Akshay Kansal (Boise State University); Francesca Spezzano (Boise State University)	Pacific 2
	1249	Natural Language Question/Answering: Let Users Talk With The Knowledge Graph -- Weiguo Zheng (Chinese University of Hong Kong); Hong Cheng (Chinese University of Hong Kong); Lei Zou (Peking University); Jeffrey Xu Yu (Chinese University of Hong Kong); Kangfei Zhao (Chinese University of Hong Kong)	
	914	Keyword Search on RDF Graphs - A Query Graph Assembly Approach -- Shuo Han (Peking University); Lei Zou (Peking University); Jeffery Xu Yu (Chinese University of Hong Kong); Dongyan Zhao (Peking University)	
	1592	Region Representation Learning via Mobility Flow -- Hongjian Wang (Pennsylvania State University); Zhenhui Li (Pennsylvania State University)	

	Session 2A: Ranking		
13:30-15:00	685	Learning Visual Features from Snapshots for Web Search -- Yixing Fan (University of Chinese Academy of Sciences & CAS Key Lab of Network Data Science and Technology); Jiafeng Guo (CAS Key Lab of Network Data Science and Technology); Yanyan Lan (CAS Key Lab of Network Data Science and Technology); Jun Xu (CAS Key Lab of Network Data Science and Technology); Liang Pang (CAS Key Lab of Network Data Science and Technology); Xueqi Cheng (CAS Key Lab of Network Data Science and Technology)	Ocean 3
	312	DeepRank: A New Deep Architecture for Relevance Ranking in Information Retrieval -- Liang Pang (Chinese Academy of Sciences & University of Chinese Academy of Sciences); Yanyan Lan (Chinese Academy of Sciences & University of Chinese Academy of Sciences); Jiafeng Guo (Chinese Academy of Sciences & University of Chinese Academy of Sciences); Jun Xu (Chinese Academy of Sciences & University of Chinese Academy of Sciences); Jingfang Xu (Sogou Inc); Xueqi Cheng (Chinese Academy of Sciences & University of Chinese Academy of Sciences)	
	2146	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)	
	176	Balancing Speed and Quality in Online Learning to Rank for Information Retrieval -- Harrie Oosterhuis (University of Amsterdam); Maarten de Rijke (University of Amsterdam)	
	Session 2B: Crowdsourcing 1		
13:30-15:00	290	Crowd-enabled Pareto-Optimal Objects Finding Employing Multi-Pairwise-Comparison Questions -- Chang Liu (Shandong University); Yinan Zhang (Shandong University); Lei Liu (Shandong University); Lizhen Cui (Shandong University); Dong Yuan (University of Sydney); Chunyan Miao (Nanyang Technological University)	Ocean 4
	166	Destination-aware Task Assignment in Spatial Crowdsourcing -- Yan Zhao (Soochow University); Yang Li (Soochow University); Yu Wang (Chinese University of Hong Kong); Han Su (University of Electronic Science and Technology of China); Kai Zheng (University of Electronic Science and Technology of China)	
	157	Crowdsourced Selection on Multi-Attribute Data -- Xueping Weng (Tsinghua University); Guoliang Li (Tsinghua University); Huiqi Hu (Tsinghua University); Jianhua Feng (Tsinghua University)	
	55	Select Your Questions Wisely: For Entity Resolution With Crowd Errors -- Vijaya Krishna Yalavarthi (Nanyang Technological University); Xiangyu Ke (Nanyang Technological University); Arijit Khan (Nanyang Technological University)	
	Session 2C: Recommendation 1		
	1278	Reply With: Proactive Recommendation of Email Attachments -- Christophe Van Gysel (University of Amsterdam); Bhaskar Mitra (Microsoft); Matteo Venanzi (Microsoft); Roy Rosemarin (Microsoft); Grzegorz Kukla (Microsoft); Piotr Grudzien (Microsoft); Nicola Cancedda (Microsoft)	

13:30-15:00	298	Learning and Transferring Social and Item Visibilities for Personalized Recommendation -- Lin Xiao (Tsinghua University); Zhang Min (Tsinghua University); Zhang Yongfeng (University of Massachusetts Amherst); Liu Yiqun (Tsinghua University); Ma Shaoping (Tsinghua University)	Ocean 5
	151	Joint Topic-Semantic-aware Social Recommendation for Online Voting -- Hongwei Wang (Shanghai Jiao Tong University & The Hong Kong Polytechnic University); Jia Wang (The Hong Kong Polytechnic University); Miao Zhao (The Hong Kong Polytechnic University); Jiannong Cao (The Hong Kong Polytechnic University); Minyi Guo (Shanghai Jiao Tong University)	
	88	Interactive Social Recommendation -- Xin Wang (Tsinghua University); Steven C.H. Hoi (Singapore Management University); Chenghao Liu (Zhejiang University); Martin Ester (Simon Fraser University)	
13:30-15:00	**Session 2D: Network Embedding 2**		Pacific 1
	1219	From Properties to Links: Deep Network Embedding on Incomplete Graphs -- Dejian Yang (Beihang University); Senzhang Wang (Nanjing University of Aeronautics and Astronautics); Chaozhuo Li (Beihang University); Xiaoming Zhang (Beihang University); Zhoujun Li (Beihang University)	
	465	Learning Community Embedding with Community Detection and Node Embedding on Graphs -- Sandro Cavallari (Nanyang Technological University); Vincent W. Zheng (Advanced Digital Sciences Center); Hongyun Cai (Advanced Digital Sciences Center); Kevin Chen-Chuan Chang (University of Illinois at Urbana-Champaign); Erik Cambria (Nanyang Technological University)	
	374	Attributed Network Embedding for Learning in a Dynamic Environment -- Jundong Li (Arizona State University); Harsh Dani (Arizona State University); Xia Hu (Texas A&M University); Jiliang Tang (Michigan State University); Yi Chang (Huawei Research America); Huan Liu (Arizona State University)	
	350	Learning Node Embeddings in Interaction Graphs -- Yao Zhang (Fudan University); Yun Xiong (Fudan University); Xiangnan Kong (Worcester Polytechnic Institute); Yangyong Zhu (Fudan University)	
13:30-15:00	**Session 2E: Skyline Queries**		Pacific 2
	1687	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)	
	824	Fast Algorithms for Pareto Optimal Group-based Skyline -- Wenhui Yu (Tsinghua University); Zheng Qin (Tsinghua University); Jinfei Liu (Emory University & Georgia Institute of Technology); Li Xiong (Emory University); Xu Chen (Tsinghua University); Huidi Zhang (Tsinghua University)	
	509	Probabilistic Skyline on Incomplete Data -- Kaiqi Zhang (Harbin Institute of Technology); Hong Gao (Harbin Institute of Technology); Xixian Han (Harbin Institute of Technology); Zhipeng Cai (Georgia State University); Jianzhong Li (Harbin Institute of Technology)	
	491	Communication-Efficient Distributed Skyline Computation -- Haoyu Zhang (Indiana University Bloomington); Qin Zhang (Indiana University Bloomington)	

		Session 2F: Social Media Analysis	
13:30-15:00	1683	Bringing Salary Transparency to the World: Computing Robust Compensation Insights via LinkedIn Salary -- Krishnaram Kenthapadi (LinkedIn Corporation); Stuart Ambler (LinkedIn Corporation); Liang Zhang (LinkedIn Corporation); Deepak Agarwal (LinkedIn Corporation)	Pacific 3
	1737	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)	
	1481	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)	
	444	Modeling Affinity based Popularity Dynamics -- Minkyoung Kim (Commonwealth Scientific and Industrial Research Organisation (CSIRO) & Stanford University); Daniel A. McFarland (Stanford University); Jure Leskovec (Stanford University)	
		Session 3A: Spatiotemporal	
15:30-17:00	24	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)	Ocean 3
	1870	Modeling Temporal-Spatial Correlations for Crime Prediction -- Xiangyu Zhao (Michigan State University); Dawei Yin (JD.com); Jiliang Tang (Michigan State University)	
	1472	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)	
	194	Exploiting Spatio-Temporal User Behaviors for User Linkage -- Wei Chen (Soochow University); Hongzhi Yin (University of Queensland); Weiqing Wang (University of Queensland); Lei Zhao (Soochow University); Wen Hua (University of Queensland); Xiaofang Zhou (University of Queensland)	
		Session 3B: Short text retrieval	
15:30-17:00	2017	Similarity-based Distant Supervision for Definition Retrieval -- Jiepu Jiang (University of Massachusetts Amherst); James Allan (University of Massachusetts Amherst)	Pacific 3
	1309	Hybrid BiLSTM-Siamese network for FAQ Assistance -- Prerna Khurana (TCS Research); Puneet Agarwal (TCS Research); Gautam Shroff (TCS Research); Lovekesh Vig (TCS Research); Ashwin Srinivasan (BITS Pilani)	
	1678	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)	

	162	Talking to Your TV: Context-Aware Voice Search with Hierarchical Recurrent Neural Networks -- Jinfeng Rao (Comcast Applied AI Research Lab & University of Maryland); Ferhan Ture (Comcast Applied AI Research Lab); Hua He (University of Maryland); Oliver Jojic (Comcast Applied AI Research Lab); Jimmy Lin (University of Waterloo)	
	Session 3C: Community Detection		
15:30-17:00	932	GPU-Accelerated Graph Clustering via Parallel Label Propagation -- Yusuke Kozawa (AIST); Toshiyuki Amagasa (University of Tsukuba); Hiroyuki Kitagawa (University of Tsukuba)	Ocean 4
	899	Temporally Like-minded User Community Identification through Neural Embeddings -- Hossein Fani (University of New Brunswick & Ryerson University); Ebrahim Bagheri (Ryerson Univestiy & Ryerson University); Weichang Du (University of New Brunswick)	
	230	Community-Based Network Alignment for Large Attributed Network -- Zheng Chen (Drexel University); Xinli Yu (Temple University); Bo Song (Drexel University); Jianliang Gao (Drexel University); Xiaohua Hu (Drexel University); Wei-Shih Yang (Temple University)	
	210	A Non-negative Symmetric Encoder-Decoder Approach for Community Detection -- Bing-Jie Sun (Chinese Academy of Sciences); Huawei Shen (Chinese Academy of Sciences); Jinhua Gao (Chinese Academy of Sciences); Wentao Ouyang (Chinese Academy of Sciences); Xueqi Cheng (Chinese Academy of Sciences)	
	Session 3D: Time Series		
15:30-17:00	1917	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)	Ocean 5
	1914	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)	
	1316	Finding Periodic Discrete Events in Noisy Streams -- Abhirup Ghosh (University of Edinburgh); Christopher Lucas (University of Edinburgh); Rik Sarkar (University of Edinburgh)	
	1302	Fast and Accurate Time Series Classification with WEASEL -- Patrick Schäfer (Humboldt University of Berlin); Ulf Leser (Humboldt University of Berlin)	
	Session 3E: Query processing		
	402	QLever: A Query Engine for Efficient SPARQL+Text Search -- Hannah Bast (University of Freiburg); Björn Buchhold (University of Freiburg)	

15:30-17:00	319	A Study of Main-Memory Hash Joins on Many-core Processor: A Case with Intel Knights Landing Architecture -- Xuntao Cheng (Nanyang Technological University); Bingsheng He (National University of Singapore); Xiaoli Du (National University of Defense Technology); Chiew Tong Lau (Nanyang Technological University)	Pacific 1
	206	PQBF: I/O-Efficient Approximate Nearest Neighbor Search by Product Quantization -- Yingfan Liu (Chinese University of Hong Kong); Hong Cheng (Chinese University of Hong Kong); Jiangtao Cui (Xidian University)	
	145	ANS-Based Index Compression -- Alistair Moffat (University of Melbourne); Matthias Petri (University of Melbourne)	

	Session 3F: Temporal data		
15:30-17:00	556	Covering the Optimal Time Window Over Temporal Data -- Bin Cao (Zhejiang University of Technology); Chenyu Hou (Zhejiang University of Technology); Jing Fan (Zhejiang University of Technology)	Pacific 2
	2087	Scaling Probabilistic Temporal Query Evaluation -- Melisachew Wudage Chekol (University of Mannheim)	
	460	Efficient Discovery of Abnormal Event Sequences in Enterprise Security Systems -- Boxiang Dong (NEC Laboratories America & Montclair State University); Zhengzhang Chen (NEC Laboratories America); Hui (Wendy) Wang (Stevens Institute of Technology); Lu-AN Tang (NEC Laboratories America); Kai Zhang (Temple University); Ying Lin (University of Washington); Zhichun Li (NEC Laboratories America); Haifeng Chen (NEC Laboratories America)	
	338	Temporal Analog Retrieval using Transformation over Dual Hierarchical Structures -- Yating Zhang (RIKEN AIP Center/NAIST); Adam Jatowt (Kyoto University); Katsumi Tanaka (Kyoto University)	

Wednesday, November 8th

	Session 4A: Evaluation		
11:20-12:50	2043	Does That Mean You're Happy? -- Kyle Williams (Microsoft); Imed Zitouni (Microsoft)	Pacific 1
	1524	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)	
	2019	Adaptive Persistence for Search Effectiveness Measures -- Jiepu Jiang (University of Massachusetts Amherst); James Allan (University of Massachusetts Amherst)	
	193	Beyond Success Rate: Utility as a Search Quality Metric for Online Experiments -- Widad Machmouchi (Microsoft); Ahmed Hassan Awadallah (Microsoft); Imed Zitouni (Microsoft); Georg Buscher (Facebook)	

11:20-12:50	**Session 4B: News and credibility**	
	1402	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))	Pacific 2
	352	Growing Story Forest Online from Massive Breaking News -- Bang Liu (University of Alberta); Di Niu (University of Alberta); Kunfeng Lai (Tencent Inc.); Linglong Kong (University of Alberta); Yu Xu (Tencent Inc.)	
	1465	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)	
	65	CSI: A Hybrid Deep Model for Fake News Detection -- Natali Ruchansky (University of Southern California); Sungyong Seo (University of Southern California); Yan Liu (University of Southern California)	

11:20-12:50	**Session 4C: Outliers and Anomaly Detection**	
	1464	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)	Ocean 3
	1390	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)	
	986	Anomaly Detection in Dynamic Networks using Multi-view Time-Series Hypersphere Learning -- Xian Teng (University of Pittsburgh); Yu-Ru Lin (University of Pittsburgh); Xidao Wen (University of Pittsburgh)	
	532	A Fast Trajectory Outlier Detection Approach via Driving Behavior Modeling -- Hao Wu (Fudan University); Weiwei Sun (Fudan University); Baihua Zheng (Singapore Management University)	

	Session 4D: Graph Mining 1	
	1901	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)	
11:20-12:50	1553	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)	

11:20-12:50	1427	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)	Ocean 4
	1084	MGAE: Marginalized Graph Autoencoder for Graph Clustering -- Chun Wang (University of Technology Sydney); Shirui Pan (University of Technology Sydney); Guodong Long (University of Technology Sydney); Xingquan Zhu (Florida Atlantic University); Jing Jiang (University of Technology Sydney)	

11:20-12:50	**Session 4E: Online learning, Stream mining**		
	1214	BoostVHT: Boosting Distributed Streaming Decision Trees -- Theodore Vasiloudis (RISE SICS); Foteini Beligianni (Royal Institute of Technology, KTH); Gianmarco De Francisci Morales (Qatar Computing Research Institute)	Ocean 5
	2176	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)	
	131	FUSION - An Online Method for Multistream Classification -- Ahsanul Haque (University of Texas at Dallas); Zhuoyi Wang (University of Texas at Dallas); Swarup Chandra (University of Texas at Dallas); Bo Dong (University of Texas at Dallas); Latifur Khan (University of Texas at Dallas); Kevin W. Hamlen (University of Texas at Dallas)	

14:15-15:45	**Session 5A: Tensor analysis**		
	255	Maintaining Densest Subsets Efficiently in Evolving Hypergraphs -- Shuguang Hu (University of Hong Kong); Xiaowei Wu (University of Hong Kong); T-H. Hubert Chan (University of Hong Kong)	Pacific 1
	804	Coupled Sparse Matrix Factorization for Response Time Prediction in Logistics Services -- Yuqi Wang (Hong Kong Polytechnic University); Jiannong Cao (Hong Kong Polytechnic University); Lifang He (Shenzhen University); Wengen Li (Hong Kong Polytechnic University); Lichao Sun (University of Illinois at Chicago); Philip S. Yu (University of Illinois at Chicago)	
	743	Tensor Rank Estimation and Completion via CP-based Nuclear Norm -- Qiquan Shi (Hong Kong Baptist University); Haiping Lu (University of Sheffield); Yiu-ming Cheung (Hong Kong Baptist University)	
	215	Smart Infrastructure Maintenance Using Incremental Tensor Analysis -- Nguyen Lu Dang Khoa (Data61 | CSIRO); Ali Anaissi (Data61 | CSIRO); Yang Wang (Data61 | CSIRO)	

	Session 5B: Application driven mining		
	1629	Collaborative Filtering as a Case-Study for Model Parallelism on Bulk Synchronous Systems -- Ariyam Das (University of California, Los Angeles); Ishan Upadhyaya (University of California, Los Angeles); Xiangrui Meng (Databricks); Ameet Talwalkar (University of California, Los Angeles)	

14:15-15:45	993	Modeling Student Learning Styles in MOOCs -- Yuling Shi (Wuhan University); Zhiyong Peng (Wuhan University); Hongning Wang (University of Virginia)	Pacific 2
	495	Tracking Knowledge Proficiency of Students with Educational Priors -- Yuying Chen (University of Science and Technology of China); Qi Liu (University of Science and Technology of China); Zhenya Huang (University of Science and Technology of China); Le Wu (Hefei University of Technology); Enhong Chen (University of Science and Technology of China); Runze Wu (University of Science and Technology of China); Yu Su (Anhui University); Guoping Hu (iFLYTEK Research)	
	103	Spreadsheet Property Detection With Rule-assisted Active Learning -- Zhe Chen (Two Sigma Investments LP); Sasha Dadiomov (Microsoft Corporation); Richard Wesley (Tableau Software); Gang Xiao (Tableau Software); Daniel Cory (Tableau Software); Michael Cafarella (University of Michigan); Jock Mackinlay (Tableau Software)	
14:15-15:45	**Session 5C: Deep Learning 1**		
	609	Learning Knowledge Embeddings by Combining Limit-based Scoring Loss -- Xiaofei Zhou (Institute of Information Engineering, CAS & University of Chinese Academy of Sciences); Qiannan Zhu (Institute of Information Engineering, CAS & University of Chinese Academy of Sciences); Ping Liu (Institute of Information Engineering, CAS & University of Chinese Academy of Sciences); Li Guo (Institute of Information Engineering, CAS & University of Chinese Academy of Sciences)	Ocean 3 & 4
	767	Length Adaptive Recurrent Model for Text Classification -- Zhengjie Huang (Sun Yat-sen University); Zi Ye (Sun Yat-sen University); Shuangyin Li (iPIN); Rong Pan (Sun Yat-sen University)	
	566	Multi-Task Neural Network for Non-discrete Attribute Prediction in Knowledge Graphs -- Yi Tay (Nanyang Technological University); Luu Anh Tuan (Institute for Infocomm Research); Minh C Phan (Nanyang Technological University); Siu Cheung Hui (Nanyang Technological University)	
	403	Movie Fill in the Blank with Adaptive Temporal Attention and Description Update -- Jie Chen (University of Electronic Science and Technology of China); Jie Shao (University of Electronic Science and Technology of China); Fumin Shen (University of Electronic Science and Technology of China); Chengkun He (University of Electronic Science and Technology of China); Lianli Gao (University of Electronic Science and Technology of China); Heng Tao Shen (University of Electronic Science and Technology of China)	
16:15-17:45	**Session 6A: Crowdsourcing 2**		
	1872	Crowdsourcing Cybersecurity: Cyber Attack Detection using Social Media -- Rupinder Paul Khandpur (Virginia Tech); Taoran Ji (Virginia Tech); Steve Jan (Virginia Tech); Gang Wang (Virginia Tech); Chang-Tien Lu (Virginia Tech); Naren Ramakrishnan (Virginia Tech)	Ocean 3
	1534	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)	

	1181	Hyper Questions: Unsupervised Targeting of a Few Experts in Crowdsourcing -- Jiyi Li (Kyoto University); Yukino Baba (Kyoto University); Hisashi Kashima (Kyoto University & RIKEN Center for AIP)	
	927	Modeling Menu Bundle Designs of Crowdfunding Projects -- Yusan Lin (Pennsylvania State University); Peifeng Yin (IBM Almaden Research); Wang-Chien Lee (Pennsylvania State University)	
Session 6B: User behavior and targeting			
16:15-17:45	1738	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)	Ocean 4
	407	Volume Ranking and Sequential Selection in Programmatic Display Advertising -- Yuxuan Song (Shanghai Jiao Tong University); Kan Ren (Shanghai Jiao Tong University); Han Cai (Shanghai Jiao Tong University); Weinan Zhang (Shanghai Jiao Tong University); Yong Yu (Shanghai Jiao Tong University)	
	116	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)	
	115	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)	
Session 6C: Deep Learning 2			
16:15-17:45	1994	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)	Ocean 5
	1190	Augmented Variational Autoencoders for Collaborative Filtering with Auxiliary Information -- Wonsung Lee (Korea Advanced Institute of Science and Technology); Kyungwoo Song (Korea Advanced Institute of Science and Technology); Il-Chul Moon (Korea Advanced Institute of Science and Technology)	
	1195	DeepHawkes: Bridging the Gap between Prediction and Understanding of Information Cascades -- Qi Cao (Institute of Computing Technology, Chinese Academy of Sciences); Huawei Shen (Institute of Computing Technology, Chinese Academy of Sciences); Keting Cen (Institute of Computing Technology, Chinese Academy of Sciences); Wentao Ouyang (Institute of Computing Technology, Chinese Academy of Sciences); Xueqi Cheng (Institute of Computing Technology, Chinese Academy of Sciences)	

| | 953 | CNN-IETS: A CNN-based Probabilistic Approach for Information Extraction by Text Segmentation -- Meng Hu (Soochow University); Zhixu Li (Soochow University); Yongxin Shen (Soochow University); An Liu (Soochow University); Guanfeng Liu (Soochow University); Kai Zheng (University of Electronic Science and Technology of China); Lei Zhao (Soochow University) | |

Thursday, November 9th

	Session 7A: Health Analytics 1		
10:45-12:15	1119	A Personalized Predictive Framework for Multivariate Clinical Time Series via Adaptive Model Selection -- Zitao Liu (Pinterest); Milos Hauskrecht (University of Pittsburgh)	Pacific 1
	458	DiagTree: Diagnostic Tree for Differential Diagnosis -- Yejin Kim (POSTECH); Jingyun Choi (POSTECH); Yosep Chong (St. Mary Hospital); Xiaoqian Jiang (University of California, San Diego); Hwanjo Yu (POSTECH)	
	1854	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)	
	494	Differentially Private Regression for Discrete-Time Survival Analysis -- Thông T. Nguyên (Nanyang Technological University); Siu Cheung Hui (Nanyang Technological University)	

	Session 7B: Privacy Preserving Data Mining		
10:45-12:15	1500	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)	Ocean 1
	1419	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)	
	1178	Privacy Aware Temporal Profiling of Emails in Distributed Setup -- Sutapa Mondal (TCS Research); Manish Shukla (TCS Research); Sachin Lodha (TCS Research)	
	14	Name Disambiguation in Anonymized Graphs using Network Embedding -- Baichuan Zhang (Purdue University); Mohammad Al Hasan (Indiana University Purdue University Indianapolis)	

	Session 7C: Social Networks 1		
	1821	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)	

10:45-12:15	862	Social Media for Opioid Addiction Epidemiology: Automatic Detection of Opioid Addicts from Twitter and Case Studies -- Yujie Fan (West Virginia University); Yiming Zhang (West Virginia University); Yanfang Ye (West Virginia University); Xin Li (West Virginia University); Wanhong Zheng (West Virginia University)	Pacific 2
	1800	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)	
	245	Tweet Geolocation: Leveraging Location, User and Peer Signals -- Wen-Haw Chong (Singapore Management University); Ee-Peng Lim (Singapore Management University)	

	Session 7D: Application driven analysis		
10:45-12:15	621	A Two-step Information Accumulation Strategy for Learning from Highly Imbalanced Data -- Bin Liu (Tsinghua University); Min Zhang (Tsinghua University); Weizhi Ma (Tsinghua University); Xin Li (Tsinghua University); Yiqun Liu (Tsinghua University); Shaoping Ma (Tsinghua University)	Pacific 3
	895	Understanding Database Performance Inefficiencies in Real-world Web Applications -- Cong Yan (University of Washington); Alvin Cheung (University of Washington); Junwen Yang (University of Chicago); Shan Lu (University of Chicago)	
	1169	Data Driven Chiller Plant Energy Optimization with Domain Knowledge -- Hoang Dung Vu (Kaer Pte. Ltd.); Kok Soon Chai (Kaer Pte. Ltd.); Bryan Keating (University of Illinois at Urbana-Champaign & Advanced Digital Sciences Center); Nurislam Tursynbek (Nazarbayev University & Advanced Digital Sciences Center); Boyan Xu (Guangdong University of Technology & Advanced Digital Sciences Center); Kaige Yang (University College London & Advanced Digital Sciences Center); Xiaoyan Yang (Advanced Digital Sciences Center); Zhenjie Zhang (Advanced Digital Sciences Center)	
	220	Partitioning Orders in Online Shopping Services -- Sreenivas Gollapudi (Google); Ravi Kumar (Google); Debmalya Panigrahy (Duke University); Rina Panigrahy (Google)	

	Session 7E: Text Mining		
10:45-12:15	2150	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)	Ocean 2
	1860	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)	
	909	MIKE: Keyphrase Extraction by Integrating Multidimensional Information -- Yuxiang Zhang (Civil Aviation University of China); Yaocheng Chang (Civil Aviation University of China); Xiaoqing Liu (Civil Aviation University of China); Sujatha Das Gollapalli (A*STAR); Xiaoli Li (A*STAR); Chunjing Xiao (Civil Aviation University of China)	

	535	QALink: Enriching Text Documents with Relevant Q&A Site Contents -- Yixuan Tang (National University of Singapore); Weilong Huang (National University of Singapore); Qi Liu (National University of Singapore); Anthony K.H. Tung (National University of Singapore); Xiaoli Wang (Xiamen University); Jisong Yang (National University of Singapore); Beibei Zhang (Hong Kong Polytechnic University & National University of Singapore)	
Session 7F: Efficient Learning			
10:45-12:15	853	Sequence Modeling with Hierarchical Deep Generative Models with Dual Memory -- Yanan Zheng (Tsinghua University); Lijie Wen (Tsinghua University); Jianmin Wang (Tsinghua University); Jun Yan (Microsoft Research Asia); Lei Ji (Microsoft Research Asia)	Ocean 3
	822	Active Learning for Large-Scale Entity Resolution -- Kun Qian (IBM Research - Almaden); Lucian Popa (IBM Research - Almaden); Prithviraj Sen (IBM Research - Almaden)	
	304	Indexable Bayesian Personalized Ranking for Efficient Top-k Recommendation -- Dung D. Le (Singapore Management University); Hady W. Lauw (Singapore Management University)	
	1868	Latency Reduction via Decision Tree Based Query Construction -- Aman Grover (Linkedin Corporation); Dhruv Arya (Linkedin); Ganesh Venkataraman (Airbnb)	
Session 7G: Recommendation 2			
10:45-12:15	1237	Broad Learning based Multi-Source Collaborative Recommendation -- Junxing Zhu (National University of Defense Technology); Jiawei Zhang (Florida State University); Lifang He (Shenzhen University); Quanyuan Wu (National University of Defense Technology); Bin Zhou (National University of Defense Technology); Chenwei Zhang (University of Illinois at Chicago); Philip S. Yu (University of Illinois at Chicago & Tsinghua University)	Ocean 4
	476	Neural Attentive Session-based Recommendation -- Jing Li (Shandong University); Pengjie Ren (Shandong University); Zhumin Chen (Shandong University); Zhaochun Ren (JD.com); Tao Lian (Shandong University); Jun Ma (Shandong University)	
	2085	A Deep Recurrent Collaborative Filtering Framework for Venue Recommendation -- Jarana Manotumruksa (University of Glasgow); Craig Macdonald (University of Glasgow); Iadh Ounis (University of Glasgow)	
	2026	Recommendation with Capacity Constraints -- Konstantina Christakopoulou (University of Minnesota); Jaya Kawale (Netflix); Arindam Banerjee (University of Minnesota)	
Session 8A: Recommendation 3			
13:45-15:15	161	Joint Representation Learning for Top-N Recommendation with Heterogeneous Information Sources -- Yongfeng Zhang (University of Massachusetts Amherst); Qingyao Ai (University of Massachusetts Amherst); Xu Chen (Tsinghua University); W. Bruce Croft (University of Massachusetts Amherst)	Ocean 1
	1569	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)	

	1366	A Personalised Ranking Framework with Multiple Sampling Criteria for Venue Recommendation -- Jarana Manotumruksa (University of Glasgow); Craig Macdonald (University of Glasgow); Iadh Ounis (University of Glasgow)	
	625	BayDNN: Friend Recommendation with Bayesian Personalized Ranking Deep Neural Network -- Daizong Ding (Fudan University); Mi Zhang (Fudan University); Shao-Yuan Li (Nanjing University); Jie Tang (Tsinghua University); Xiaotie Chen (Fudan University); Zhi-Hua Zhou (Nanjing University)	
13:45-15:15	**Session 8B: Text analysis**		Ocean 2
	660	A Topic Model Based on Poisson Decomposition -- Haixin Jiang (University of Chinese Academy of Sciences & Fudan University); Rui Zhou (Swinburne University of Technology); Limeng Zhang (University of Chinese Academy of Sciences & Fudan University); Hua Wang (Victoria University); Yanchun Zhang (Victoria University & Fudan University)	
	1359	A Matrix-Vector Recurrent Unit Model for Capturing Compositional Semantics in Phrase Embeddings -- Rui Wang (University of Western Australia); Wei Liu (University of Western Australia); Chris McDonald (University of Western Australia)	
	74	Words are Malleable: Computing Semantic Shifts in Political and Media Discourse -- Hosein Azarbonyad (University of Amsterdam); Mostafa Dehghani (University of Amsterdam); Kaspar Beelen (University of Amsterdam); Alexandra Arkut (University of Amsterdam); Maarten Marx (University of Amsterdam); Jaap Kamps (University of Amsterdam)	
	1417	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)	
13:45-15:15	**Session 8C: Adversarial IR**		Pacific 1
	2143	Sybil Defense in Crowdsourcing Platforms -- Dong Yuan (Tsinghua University); Guoliang Li (Tsinghua University); Qi Li (Tsinghua University); Yudian Zheng (University of Hong Kong)	
	1742	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)	
	849	Building a Dossier on the Cheap: Integrating Distributed Personal Data Resources Under Cost Constraints -- Imrul Chowdhury Anindya (University of Texas at Dallas); Harichandan Roy (University of Texas at Dallas); Murat Kantarcioglu (University of Texas at Dallas); Bradley Malin (Vanderbilt University)	
	127	DeMalC: A Feature-rich Machine Learning Framework for Malicious Call Detection -- Yuhong Li (Alibaba Group); Dongmei Hou (Alibaba Group); Aimin Pan (Alibaba Group); Zhiguo Gong (University of Macau)	

	Session 8D: Health Analytics 2/ Top-k		
13:45-15:15	605	FA*IR: A Fair Top-k Ranking Algorithm -- Meike Zehlike (Technische Universität Berlin); Francesco Bonchi (ISI Foundation); Carlos Castillo (Universitat Pompeu Fabra); Sara Hajian (NTENT); Mohamed Megahed (Technische Universität Berlin); Ricardo Baeza-Yates (Universitat Pompeu Fabra)	Ocean 3
	707	Capturing Feature-Level Irregularity in Disease Progression Modeling -- Kaiping Zheng (National University of Singapore); Wei Wang (National University of Singapore); Jinyang Gao (National University of Singapore); Kee Yuan Ngiam (National University Health System); Beng Chin Ooi (National University of Singapore); Wei Luen James Yip (National University Health System)	
	764	Health Forum Thread Recommendation Using an Interest Aware Topic Model -- Kishaloy Halder (National University of Singapore); Min-Yen Kan (National University of Singapore); Kazunari Sugiyama (National University of Singapore)	
	1371	Exploiting Electronic Health Records to Mine Drug Effects on Laboratory Test Results -- Mohamed Ghalwash (IBM T. J. Watson Research Center); Ying Li (IBM T. J. Watson Research Center); Ping Zhang (IBM T. J. Watson Research Center); Jianying Hu (IBM T. J. Watson Research Center)	
	Session 8E: Social Networks 2		
13:45-15:15	1950	HotSpots: Failure Cascades on Heterogeneous Critical Infrastructure Networks -- Liangzhe Chen (Virginia Tech); Xinfeng Xu (Virginia Tech); Sangkeun Lee (Oak Ridge National Lab); Sisi Duan (Oak Ridge National Lab); Alfonso G. Tarditi (Oak Ridge National Lab); Supriya Chinthavali (Oak Ridge National Lab); B. Aditya Prakash (Virginia Tech)	Pacific 2
	1618	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)	
	1114	Semi-Supervised Event-related Tweet Identification with Dynamic Keyword Generation -- Xin Zheng (Nanyang Technological University & SAP Innovation Center Network Singapore); Aixin Sun (Nanyang Technological University); Sibo Wang (University of Queensland); Jialong Han (Tencent AI Lab)	
	1948	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)	
	Session 8F: Feature/Entity Selection		
	1514	Unsupervised Feature Selection with Joint Clustering Analysis -- Shuai An (Nankai University); Jun Wang (Nankai University); Jinmao Wei (Nankai University); Zhenglu Yang (Nankai University)	

13:45-15:15	1025	Multi-Label Feature Selection using Correlation Information -- Ali Braytee (University of Technology Sydney); Wei Liu (University of Technology Sydney); Daniel R. Catchpoole (Children's Hospital at Westmead); Paul J. Kennedy (University of Technology Sydney)	Pacific 3
	716	Content Recommendation by Noise Contrastive Transfer Learning of Feature Representation -- Yiyang Li (Shanghai Jiao Tong University); Guanyu Tao (ULU Technologies Inc.); Weinan Zhang (Shanghai Jiao Tong University); Yong Yu (Shanghai Jiao Tong University); Jun Wang (University College London)	
	961	NeuPL: Attention-based Semantic Matching and Pair-Linking for Entity Disambiguation -- Minh C. Phan (Nanyang Technological University); Aixin Sun (Nanyang Technological University); Yi Tay (Nanyang Technological University); Jialong Han (Nanyang Technological University); Chenliang Li (Wuhan University)	
13:45-15:15	**Session 8G: Graph Mining 2**		
	1433	Relaxing Graph Pattern Matching With Explanations -- Jia Li (Beihang University); Yang Cao (University of Edinburgh & Beihang University); Shuai Ma (Beihang University)	Ocean 4
	1344	Active Network Alignment: A Matching-Based Approach -- Eric Malmi (Aalto University); Aristides Gionis (Aalto University); Evimaria Terzi (Boston University)	
	1710	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)	
	1688	Minimizing Tension in Teams -- Behzad Golshan (Recruit Institute of Technology & Boston University); Evimaria Terzi (Boston University)	
15:45-17:15	**Session 9A: Queries**		
	1173	Interactive Spatial Keyword Querying with Semantics -- Jiabao Sun (Soochow University); Jiajie Xu (Soochow University); Kai Zheng (University of Electronic Science and Technology of China); Chengfei Liu (Swinbourne University of Technology)	Pacific 3
	2024	From Query-By-Keyword to Query-By-Example: LinkedIn Talent Search Approach - Viet Ha-Thuc (LinkedIn, Inc); Yan Yan (LinkedIn, Inc); Xianren Wu (LinkedIn, Inc); Vijay Dialani (LinkedIn, Inc); Abhishek Gupta (LinkedIn, Inc); Shakti Sinha (LinkedIn, Inc)	
	1676	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)	
	835	Deep Context Modeling for Web Query Entity Disambiguation -- Zhen Liao (Facebook); Xinying Song (Microsoft Research); Yelong Shen (Microsoft Research); Saekoo Lee (Google); Jianfeng Gao (Microsoft Research); Ciya Liao (Microsoft Research)	

	Session 9B: Representation learning		
15:45-17:15	1823	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)	Ocean 1
	943	Representation Learning of Large-Scale Knowledge Graphs via Entity Feature Combinations -- Zhen Tan (National University of Defense Technology); Xiang Zhao (National University of Defense Technology); Wei Wang (University of New South Wales)	
	929	Learning Edge Representations via Low-Rank Asymmetric Projections -- Sami Abu-El-Haija (Google Research); Bryan Perozzi (Google Research); Rami Al-Rfou (Google Research)	
	881	HIN2Vec: Explore Meta-paths in Heterogeneous Information Networks for Representation Learning -- Tao-yang Fu (Pennsylvania State University); Wang-Chien Lee (Pennsylvania State University); Zhen Lei (Pennsylvania State University)	
	Session 9C: Graph Mining 3		
15:45-17:15	1436	Core Decomposition and Densest Subgraph in Multilayer Networks -- Edoardo Galimberti (ISI Foundation & University of Turin); Francesco Bonchi (ISI Foundation); Francesco Gullo (UniCredit)	Ocean 2
	1070	Fully Dynamic Algorithm for Top-K Densest Subgraphs -- Muhammad Anis Uddin Nasir (Royal Institute of Technology); Aristides Gionis (Aalto University); Gianmarco De Francisci Morales (Qatar Computing Research Institute); Sarunas Girdzijauskas (Royal Institute of Technology)	
	514	Minimizing Dependence between Graphs -- Yu Rong (Chinese University of Hong Kong & Tencent AI Lab); Hong Cheng (Chinese University of Hong Kong)	
	Session 9D: Relational Mining		
15:45-17:15	78	Efficient Discovery of Ontology Functional Dependencies -- Sridevi Baskaran (McMaster University); Alexander Keller (University of Ontario Institute of Technology); Fei Chiang (McMaster University); Lukasz Golab (University of Waterloo); Jaroslaw Szlichta (University of Ontario Institute of Technology)	Ocean 3
	196	Automatic Navbox Generation by Interpretable Clustering over Linked Entities -- Chenhao Xie (Fudan University & Shuyan Technology); Lihan Chen (Fudan University); Jiaqing Liang (Fudan University & Shuyan Technology); Kezun Zhang (Fudan University); Yanghua Xiao (Fudan University & Shuyan Technology); Hanghang Tong (Arizona State University); Haixun Wang (Facebook); Wei Wang (Fudan University)	
	153	A Two-Stage Framework for Computing Entity Relatedness in Wikipedia -- Marco Ponza (University of Pisa); Paolo Ferragina (University of Pisa); Soumen Chakrabarti (IIT Bombay)	
	89	Incorporating the Latent Link Categories in Relational Topic Modeling -- Yuan He (Tongji University); Cheng Wang (Tongji University); Changjun Jiang (Tongji University)	

15:45-17:15	**Session 9E: User characteristics**		
	1843	Tone Analyzer for Online Customer Service: An Unsupervised Model with Interfered Training -- Peifeng Yin (IBM Almaden Research Center); Zhe Liu (IBM Almaden Research Center); Anbang Xu (IBM Almaden Research Center); Taiga Nakamura (IBM Almaden Research Center)	Pacific 1
	1643	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)	
	515	Emotions in Social Networks: Distributions, Patterns, and Models -- Shengmin Jin (Syracuse University); Reza Zafarani (Syracuse University)	
	302	Hike: A Hybrid Human-Machine Method for Entity Alignment in Large-Scale Knowledge Bases -- Yan Zhuang (Tsinghua University); Guoliang Li (Tsinghua University); Zhuojian Zhong (Tsinghua University); Jianhua Feng (Tsinghua University)	
15:45-17:15	**Session 9F: Engagement**		
	1885	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)	Pacific 2
	281	Predicting Startup Crowdfunding Success through Longitudinal Social Engagement Analysis -- Qizhen Zhang (University of Pennsylvania); Tengyuan Ye (University of Pennsylvania); Meryem Essaidi (University of Pennsylvania); Shivani Agarwal (University of Pennsylvania); Vincent Liu (University of Pennsylvania); Boon Thau Loo (University of Pennsylvania)	
	191	Optimizing Email Volume For Sitewide Engagement -- Rupesh Gupta (LinkedIn Corporation); Guanfeng Liang (Facebook, Inc.); Romer Rosales (LinkedIn Corporation)	
	1267	Understanding Engagement through Search Behaviour -- Mengdie Zhuang (University of Sheffield); Gianluca Demartini (University of Queensland & University of Sheffield); Elaine G. Toms (University of Sheffield)	
15:45-17:15	**Session 9G: CIKM Test of Time Award Ceremony (Inaugural)**		
		CIKM Test of Time Award Ceremony (Inaugural) -- James G. Shanahan (UC Berkeley, and Church and Duncan Group) CIKM Steering Committee Chair	Pacific 3