

Case Studies		
No	Title	Authors
case0127	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)
case0191	Optimizing Email Volume For Sitewide Engagement	Rupesh Gupta (LinkedIn Corporation); Guanfeng Liang (Facebook, Inc.); Romer Rosales (LinkedIn Corporation)
case0193	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)
case0215	Smart Infrastructure Maintenance Using Incremental Tensor Analysis	Nguyen Lu Dang Khoa (Data61 CSIRO); Ali Anaissi (Data61 CSIRO); Yang Wang (Data61 CSIRO)
case0352	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.)
case0407	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)
case0460	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)
case0716	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)
case0835	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)

case0862	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)
case1025	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)
case1119	A Personalized Predictive Framework for Multivariate Clinical Time Series via Adaptive Model Selection	Zitao Liu (Pinterest); Milos Hauskrecht (University of Pittsburgh)
case1169	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)
case1309	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)
case1629	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)
case1683	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)
case1843	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)
case1868	Latency Reduction via Decision Tree Based Query Construction	Aman Grover (Linkedin Corporation); Dhruv Arya (Linkedin); Ganesh Venkataraman (Airbnb)

case1872	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)
case1950	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)
case1956	A Large Scale Prediction Engine for App Install Clicks and Conversions	Narayan Bhamidipati (Yahoo Research); Ravi Kant (Yahoo Research); Shaunak Mishra (Yahoo Research)
case2024	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)
case2187	Intent Based Relevance Estimation from Click Logs	Prakash Mandayam Comar (amazon.com); Srinivasan H. Sengamedu (amazon.com)