

Session Name	Urban Computing	Entities and Relations	Conversations	Interpretability and explanations	Sequential and Temporal Recommendation	Domain-Specific & POI Recommendation	Learning methods for recommendation	Recommendation on and Collaborative Filtering	Computational Advertising	Social Networks	Knowledge Graphs	Knowledge Graphs Embeddings and Representations	Search and Retrieval: focus on representations s and learning	Search and Retrieval: focus on users and queries	Health and Bio Data	Algorithmic Aspects of Data Mining	Domain Specific Data Mining	Text Mining	Graph Neural Networks	Performance and Temporality issues in Graph Neural Networks	Algorithmic Aspects of NLP	Applied NLP	Dealing with Spatio-temporal Data	Privacy and Cybersecurity	Fake news, rumours and fact checking (harmful online content)	Cybersecurity threats and frauds	Users and User Modelling	Machine Learning	Scalability issues in Machine Learning	Crowdsourcing & Human Computation	Algorithmic Issues in Graph Mining	Idiosyncratic Graph Mining	Multimedia	Dealing with Difficult Data (Data Quality, Data Curation and De-noising)	Neural Architecture Search	TOTAL PAPERS		
# tp/rfp in session	11	10	10	11	10	11	10	10	10	10	10	10	11	10	11	11	10	7	11	9	10	10	11	9	8	9	9	11	11	8	7	10	11	6	341			
# apides in session	6	6	4	2	4	4	8	7	4	5	8	2	14	8	11	5	8	12	8	2	8	14	12	3	7	5	5	10	4	1	8	7	12	10	2	236		
LTPHM: Long-term Traffic Prediction based on Hybrid Model	Evidential Relational-Graph Convolutional Networks for Entity Classification in Knowledge Graphs	Predicting Success of a Persuasion through Joint Modeling of Utterance Categorization	FairCORELs, an Open-Source Library for Learning Fair Rule Lists	Time-Aware Recommender System via Continuous Time Modeling	DeepGroup: Group Recommendation on Implicit Feedback	A Formal Analysis of Recommendation on Quality of Adversarially-trained Recommenders	Causally Attentive Collaborative Filtering	AutoHERI: Automated Hierarchical Representation Integration for Post-Click Conversion Rate Estimation	RW-Team: Robust Team Formation using Random Walk	DSKReG: Differentiable Sampling on Knowledge Graph for Recommendation on with Relational GNN	SeDyT: A General Framework for Multi-Step Event Forecasting via Sequence Modeling on Dynamic Entity Embeddings	BERT-QPP: Contextualized Pre-trained transformers for Query Normalization and Performance Prediction	Accelerating Variant Calling on Human Genomes Using a Novel Community Cluster	Scalable Contrast Pattern Mining over Data Streams	Constructing Noise Free Economic Policy Uncertainty Index	Density-Based Dynamic Curriculum Learning for Intent Detection	Variational Graph Meta-Normalized AutoEncoder	AdaptiveGCN: Efficient GCN Through Adaptively Spanning Graphs	Boosting few-shot abstract summarization with auxiliary tasks	MOFEND: Multi-domain Fake News Detection	SaDes: An Interactive System for Sensitivity-aware Desensitization towards Tabular Data	MDFeND: Multi-domain Fake News Detection	Using Topic Modeling and Adversarial Neural Networks for Verifying Topic Detection	Evaluating Graph Vulnerability and Robustness using TIGER	MOOCubeX: A Large Knowledge-centered Repository for Adaptive Learning in MOOCs	New Tight Relaxations of Rank Minimization for Multi-Task Learning	PyTFL: A Python-based Neural Team Formation Toolkit	REFINE: A Self-Supervised Encoder for Network Clustering	Training neural networks with random noise images for adversarial robustness.	Storing Multi-model Data in RDBMSs based on Reinforcement Learning	Neuron Campaign for Initialization Guided by Information Bottleneck Theory							
Multivariate and Propagation Graph Attention Network for Spatial-Temporal Prediction with Outdoor Cellular Traffic	MaChamP: A Generalized Entity Matching Benchmark	Simulated Annealing for Emotional Dialogue Systems	Landmark Explanation an explainer for Entity Matching Models	Locker: Locally Constrained Self-Attentive Sequential Recommendation	Low-dimensional Alignment for Cross-Domain Recommendation	Fully Hyperbolic Graph Convolution Network for Recommendation	Entity-aware Collaborative Relation Network with Knowledge Graph for Recommendation	The Effect of News Article Scoring on Advertisement Consumption	DLQ: A System for Label-Constrained Reachability Queries on Dynamic Knowledge Graphs	PRASEMap: A Scalable Distributed In-Memory Machine Learning Pipelines for RDF Knowledge Graphs	Adversarial Domain Adaptation for Multi-modal Information Retrieval with Web Search Relevance	Template-guided Clarifying Question Generation for COVID-19 Pandemic	Supervised Contrastive Learning for Multi-modal UnreliableNews Detection in COVID-19 Pandemic	Structural Deep Incomplete Multi-view Clustering Network	Distilling Numeral Information for Volatility Forecasting	Multi-Sentence Argument Linking via An Event-Aware Contrastive Encoder	Multimodal Graph Meta-Learning	Graph-based Semi-supervised Learning via Local Label Consistency Strengthen	SCOPA : Soft Code-Switching and Pairwise Alignment for Zero-Shot Cross-lingual Transfer	PirA: A Bilingual Portuguese-English Dataset for Question-Answering about the Ocean	Historical Inertia: A Neglected but Promising Baseline for Long Sequence Time-series Forecasting	Variational Privacy-preserving User Identity Linkage	Using Topic Modeling and Adversarial Neural Networks for Verifying Topic Detection	Evaluating Graph Vulnerability and Robustness using TIGER	MOOCubeX: A Large Knowledge-centered Repository for Adaptive Learning in MOOCs	New Tight Relaxations of Rank Minimization for Multi-Task Learning	PyTFL: A Python-based Neural Team Formation Toolkit	REFINE: A Self-Supervised Encoder for Network Clustering	Training neural networks with random noise images for adversarial robustness.	Storing Multi-model Data in RDBMSs based on Reinforcement Learning	Neuron Campaign for Initialization Guided by Information Bottleneck Theory							
DL-Traff: Survey and Benchmark of Deep Learning Models for Urban Traffic Prediction	A Conditional Cascade Model for Relational Triple Extraction	DialogueBERT: A Self-Supervised Learning based Dialogue Pre-training Encoder	CauSeR: Causal Session-based Recommendations for Handling Popularity Bias	Recommending Datasets for Scientific Problem Descriptions	Fusion Network for Review-based Item Recommendation	Anchor-based Collaborative Filtering for Recommender Systems	MixBERT for Image-Ad Relevance Scoring in Advertising	Collaborative Experts Discovery in Social Coding Platforms	GAKG: A Multimodal GeoScience Academic Knowledge Graph	Evidence Selection for Training Document Ranker	Reputation Equity in Ranking Systems	When is Nearest Neighbor Meaningful? Sequential Data	Understanding Multi-channel Customer Behavior in Retail	Label-informed Graph Structure Learning for Node Classification	Aspect Sentiment Triplet Extraction Using Reinforcement Learning	HICoVA: Hierarchical Conditional Variational Autoencoder for Keyphrase Generation	A Chinese Knowledge Base Question Answering System	Bi-directional Coupled Multivariate Learning of Irregular Time Series with Missing Values	Discovering Conflicts of Interest across Heterogeneous Data Sources with ConnectionLens	Fine-Grained Element Identification in Complaint Text of Internet Fraud	Relation-aware Heterogeneous Graph for User Profiling	Tripartite Spatiotemporal Attention Network for User Behavior Modeling in Location-based Search	Fair and Robust Unsupervised Feature Selection Bias	Binary Code based Hash Embedding for Web-scale Applications	Embedding Node Structural Role Identifying Using Stress Majorization	DESTINE: Dense Subgraph Detection on Multi-Layered Networks	VideoLytics: System for Data Analytics of Video Streams	HAO Unity: A Graph-based System for Unifying Heterogeneous Data										
A Semantic Data Marketplace for Easy Data Sharing within a Smart City	Tabular Data Concept Type Detection Using Star-Transformers	Question Rewriting for Open-Domain Conversational QA: Best Practices and Limitations	Modeling Sequences as Distributions with Uncertainty for Sequential Recommendation	ST-PIL: Spatial-Temporal Periodic Interest Learning for Next Point-of-Interest Recommendation	Review-Aware Neural Recommendation with Cross-Modality Mutual Attention	Vector-Quantized Autoencoder With Copula for Collaborative Filtering	SMAD: Scalable Multi-view Ad Retrieval System for E-commerce Sponsored Search	From Community Search to Understanding: A Multimodal Scientific Query Engine	somSci-A 5 Star Open Data Gold Standard Knowledge Graph of Software Mentions in Scientific Articles	Is a Single Model Enough? MuCoS: A Multi-Model Ensemble Learning for Pseudo-Relevance Code Search	Health Claims Unpacked: A toolkit to Enhance the Communication of Health Claims for food	SCI: Subspace Learning Based Counterfactual Inference for Individual Treatment Effect Estimation	DORA The Explorer: Exploring Data with Interactive Deep Reinforcement Learning	Cfomer: Semi-Supervised Text Clustering Based on Pseudo Labeling	Capsule Graph Neural Networks with EM Routing	HICOVA: Hierarchical Conditional Variational Autoencoder for Keyphrase Generation	A Chinese Knowledge Base Question Answering System	Bi-directional Coupled Multivariate Learning of Irregular Time Series with Missing Values	Discovering Conflicts of Interest across Heterogeneous Data Sources with ConnectionLens	Fine-Grained Element Identification in Complaint Text of Internet Fraud	Relation-aware Heterogeneous Graph for User Profiling	Tripartite Spatiotemporal Attention Network for User Behavior Modeling in Location-based Search	Fair and Robust Unsupervised Feature Selection Bias	Binary Code based Hash Embedding for Web-scale Applications	Embedding Node Structural Role Identifying Using Stress Majorization	DESTINE: Dense Subgraph Detection on Multi-Layered Networks	VideoLytics: System for Data Analytics of Video Streams	HAO Unity: A Graph-based System for Unifying Heterogeneous Data										
GeoVectors: a Linked Open Corpus of OpenStreetMap Embeddings on a World Scale	FaiREr: Entity Resolution With Fairness Constraints	Uncertainty-Aware Self-Training for Semi-Supervised Event Temporal Extraction	Structure Aware Experience Replay for Incremental Learning in Graph-based Recommender Systems	RecBole: Towards a Unified, Comprehensive and Efficient Framework for Recommendation Algorithms	XPL-CF: Explainable Embeddings for Feature-based Collaborative Filtering	Locate Who You Are: Matching Geo-location to Text for User Identity Linkage	WorldKG: A World-Scale Community Query Engine	Predicting efficiency/effectiveness tradeoffs for retrieval strategy selection	State-Aware Meta-Evaluation of Evaluation Metrics in Interactive Information Retrieval	RCES: Rapid Cues Exploratory Retrieval Using Taxonomies For COVID-19	CoSEM: Contextual and Semantic Embedding for App Usage Prediction	Self-Supervised Learning based on Sentiment Analysis with Word Weight Calculation	Spectral Graph Attention Network with Fast Eigen-approximation	GGP: A Grouping Planner for Explicit Control of Long Text Revision History	Automatic Error Correction and Wikipedia Page Verification	Centerpoint Query Authentication	FlaxPlanAC: A Fact-checking tool based on exPLAINable models with huMA Correction in the loop	Determining Subjective Bias in Text through Linguistically Supervised Transformer based Multi-Task Network	Enhancing Aspect-Based Sentiment Analysis with Supervised Contrastive Learning	Deep Active Learning for Text Classification with Diverse Interactions	Towards Anomaly-resistant Graph Neural Networks via Reinforcement Learning	Integrating Transductive and Inductive Embeddings for Medical Visual Question Answering System	Unsupervised Cross-system Log Anomaly Detection via Domain Adaption	NQuAD: 70,000+ Questions for Machine Comprehension of the Numerals in Text	Region-Invariant Normalizing Mobility Transfer	Fairness-Aware Unsupervised Feature Selection	CausesBox: A Causal Inference Toolbox for Benchmarking Treatment Effect Estimators with Machine Learning Methods	Multi-objective Few-shot Learning for Fair Classification	Attention Based Subgraph Classification for Link Prediction by Network Re-weighting	A Cohesive Structural Bipartite Graph Analytics System	Exploratory Search of GANs with Contextual Bandits	AntOpt: A Multi-functional Large-scale Decision Optimization Platform						
Vandalism Detection in OpenStreetMap via User Embeddings	Dual Correction Strategy for Ranking Distillation in Top-N Recommender System	librec-auto: A Tool for Recommender Systems Experimentation	Graph Structure Aware Contrastive Knowledge Distillation for Incremental Learning in Recommender Systems	RecBole: Towards a Unified, Comprehensive and Efficient Framework for Recommendation Algorithms	XPL-CF: Explainable Embeddings for Feature-based Collaborative Filtering	Locate Who You Are: Matching Geo-location to Text for User Identity Linkage	WorldKG: A World-Scale Community Query Engine	Predicting efficiency/effectiveness tradeoffs for retrieval strategy selection	State-Aware Meta-Evaluation of Evaluation Metrics in Interactive Information Retrieval	RCES: Rapid Cues Exploratory Retrieval Using Taxonomies For COVID-19	CoSEM: Contextual and Semantic Embedding for App Usage Prediction	Self-Supervised Learning based on Sentiment Analysis with Word Weight Calculation	Spectral Graph Attention Network with Fast Eigen-approximation	GGP: A Grouping Planner for Explicit Control of Long Text Revision History	Automatic Error Correction and Wikipedia Page Verification	Centerpoint Query Authentication	FlaxPlanAC: A Fact-checking tool based on exPLAINable models with huMA Correction in the loop	Determining Subjective Bias in Text through Linguistically Supervised Transformer based Multi-Task Network	Enhancing Aspect-Based Sentiment Analysis with Supervised Contrastive Learning	Deep Active Learning for Text Classification with Diverse Interactions	Towards Anomaly-resistant Graph Neural Networks via Reinforcement Learning	Integrating Transductive and Inductive Embeddings for Medical Visual Question Answering System	Unsupervised Cross-system Log Anomaly Detection via Domain Adaption	NQuAD: 70,000+ Questions for Machine Comprehension of the Numerals in Text	Region-Invariant Normalizing Mobility Transfer	Fairness-Aware Unsupervised Feature Selection	CausesBox: A Causal Inference Toolbox for Benchmarking Treatment Effect Estimators with Machine Learning Methods	Multi-objective Few-shot Learning for Fair Classification	Attention Based Subgraph Classification for Link Prediction by Network Re-weighting	A Cohesive Structural Bipartite Graph Analytics System	Exploratory Search of GANs with Contextual Bandits	AntOpt: A Multi-functional Large-scale Decision Optimization Platform						