	Urban Computing	Entities and Relations	Conversations	Interpretability and explanations	Sequential and Temporal Recommendation	Domain-Specific & POI Recommendation	Learning methods for recommendation	Recommendation and Collaborative Filtering	Computational Advertising	Social Networks	Knowledge Graphs	Knowledge Graphs Embeddings and Representations	Search and Retrieval: focus on representations 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
# fp/afp in session	11	11	10	11	10	10	11	10	11	10	10	11	10	10	11	11	11	10	11	11	7	11	8	10	10	9	8	11	11	11	8	8	10	10	6	341
# sp/de/res in session	6	6	4	2	4	4	8	7	4	5	8	2	14	8	11	5	10	12	8	2	8	14	12	8	3	7	5	5	10	11	11	4	12	10	6	236
1	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 with Implicit Feedback	A Formal Analysis of Recommendation Quality for Adversarially-trained Recommenders	Entity-aware Collaborative Relation Network with Knowledge Graph for Recommendation	AutoHERI: Automated Hierarchical Representation Integration for Post-Click Conversion Rate Estimation	Causally Attentive Collaborative Filtering	DSKReG: Differentiable Sampling on Knowledge Graph for Recommendation 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 Performance Prediction	Template-guided Clarifying Question Generation for Web Search Clarification	Accelerating Variant Calling on Human Genomes Using a Commodity 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 Normalized AutoEncoder	AdaptiveGCN: Efficient GCN Through Adaptively Sparsifying Graphs	Boosting few-shot abstractive summarization with auxiliary tasks	Question Answering using Web Lists	DAMA-Net: A Novel Predictive Model for Irregularly/Asynchronously and Sparsely Sampled Multivariate Time Series	SaDes: An Interactive System for Sensitivity-aware Desensitization towards Tabular Data	MDFEND: Multi-domain Fake News Detection	TwiBot-20: A Comprehensive Twitter Bot Detection Benchmark	Identifying Behavioural Types in Music Streaming Sessions	New Tight Relaxations of Rank Minimization for Multi-Task Learning	FedSkel: Efficient Federated Learning on Heterogeneous Systems with Skeleton Gradients Update	PyTFL: A Python-based Neural Team Formation Toolkit	Graph Representation Learning via Adversarial Variational Bayes	ANEMONE: Graph Anomaly Detection with Multi-Scale Contrastive Learning	Self-Supervised Embedding for Subspace Clustering	Training neural networks with random noise images for adversarial robustness.	Neuron Campaign for Initialization Guided by Information Bottleneck Theory	
2	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	Anchor-based Collaborative Filtering for Recommender Systems	The Effect of News Article Quality on Ad Consumption	SIFN: A Sentiment-aware Interactive Fusion Network for Review-based Item Recommendation	RW-Team: Robust Team Formation using Random Walk	DistRDF2ML - Scalable Distributed In-Memory Machine Learning Pipelines for RDF Knowledge Graphs	Evidence Selection for Training Document Ranker	Adversarial Domain Adaptation for Cross-lingual Information Retrieval with Multilingual BERT	Supervised Contrastive Learning for Multi-modal Unreliableness 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 Hierarchical Encoder	Graph-based Semi-Supervised Learning via Local Label Consistency Strengthen	SCOPA: Soft Code-Switching and Pairwise Alignment for Zero-Shot Cross-lingual Transfer		Pirá: A Bilingual Portuguese-English Dataset for Question-Answering about the Ocean	Historical Inertia: A Neglected but Powerful Baseline for Long Sequence Time-series Forecasting	Multi-objective Privacy-preserving Text Representation Learning	Using Topic Modeling and Adversarial Neural Networks for Fake News Video Detection	Fine-Grained Element Identification in Complaint Text of Internet Fraud	Relation-aware Heterogeneous Graph for User Profiling	Robust Adaptive-weighting Multi-view Classification	Smoothing with Fake Label		Graph Embedding via Diffusion-Wavelets-Based Node Feature Distribution Characterization	DESTINE: Dense Subgraph Detection on Multi-Layered Networks	TrUMAn: Trope Understanding in Movies and Animations	Boosting Graph Alignment Algorithms	Learning Effective and Efficient Embedding via an Adaptively-Masked Twins-based Layer	
3	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		Modeling Sequences as Distributions with Uncertainty for Sequential Recommendation	Vector-Quantized Autoencoder With Copula for Collaborative Filtering	MixBERT for Image-Ad Relevance Scoring in Advertising	Collaborative Experts Discovery in Social Coding Platforms	DLQ: A System for Label-Constrained Reachability Queries on Dynamic Graphs	PRASEMap: A Probabilistic Reasoning and Semantic Embedding based Knowledge Graph Alignment System	Is a Single Model Enough? MuCoS: A Multi-Model Ensemble Learning for Semantic Code Search	Reputation Equity in Ranking Systems	Will Sorafenib help? Treatment-aware Reranking in Precision Medicine Search	SCI: Subspace Learning Based Counterfactual Inference for Individual Treatment Effect Estimation	Understanding Multi-channel Customer Behavior in Retail	Aspect Sentiment Triplet Extraction Using Reinforcement Learning	Label-informed Graph Structure Learning for Node Classification			Interpreting BERT via Gradient Attention Ranking	Discovering Time-invariant Causal Structure from Temporal Data	Variational Cross-Network Embedding for Anonymized User Identity Linkage	CrossAug: A Contrastive Data Augmentation Method for Debiasing Fact Verification Models	GraphEvolveDroid: Mitigate Model Degradation in the Scenario of Android Ecosystem Evolution	Trilateral Spatiotemporal Attention Network for User Behavior Modeling in Location-based Search	Multi-objective Few-shot Learning for Fair Classification	Learning Representation for Imbalanced Data with Label Noise in Text Classification		Embedding Node Structural Role Identity with Multi-Layered Contrastive Learning	AntOpt: A Multi-functional Large-scale Decision Optimization Platform	VidLife: A Dataset for Life Event Extraction from Videos	DashBot: An Intelligent Dashboard Generation System	Storing Multi-model Data in RDBMSs based on Reinforcement Learning	
4	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		ST-PIL: Spatial-Temporal Periodic Interest Learning for Next Point-of-Interest Recommendation		Review-Aware Neural Recommendation with Cross-Modality Mutual Attention	XPL-CF: Explainable Embeddings for Feature-based Collaborative Filtering	SMAD: Scalable Multi-view Ad Retrieval System for E-Commerce Sponsored Search	From Community Search to Community Understanding: A Multimodal Community Query Engine	GAKG: A Multimodal Geoscience Academic Knowledge Graph		Improving Query Representation for Dense Retrieval with Pseudo Relevance Feedback	Evaluating Fairness in Argument Retrieval	Health Claims Unpacked: A toolkit to Enhance the Communication of Health	Asterisk-Shaped Features for Tabular Data	DORA The Explorer: Exploring Data Using Interactive Deep Reinforcement Learning	Cformer: Semi-Supervised Text Clustering Based on Pseudo Labeling	Capsule Graph Neural Networks with EM Routing			HiCoVA: Hierarchical Conditional Variational Autoencoder for Keyphrase Generation	Bidirectional Coupled Multivariate Learning of Irregular Time Series with Missing Values	Discovering Conflicts of Interest across Heterogeneous Data Sources with ConnectionLens	FaxPlainAC: A Fact-checking tool based on eXPLAINable models with humAn Correction in the loop			Fair and Robust Classification Under Sample Selection Bias	VERSACHI: Finding Statistically Significant Subgraph Matches using Chebyshev's Inequality		Adversarial Framework of Higher-order and Local Features for Role-based Graph Embedding	Exploratory Search of GANs with Contextual Bandits Analytics	Multi-subspace Implicit Alignment for Cross-modal Retrieval on Cooking Recipes and Food Images	Does Adversarial Oversampling Help us?	Binary Code based Hash Embedding for Web-scale Applications	
5	GeoVectors: a Linked Open Corpus of OpenStreetMap Embeddings on a World Scale	FairER: Entity Resolution With Fairness Constraints					Structure Aware Experience Replay for Incremental Learning in Graph-based Recommender System	librec-auto: A Tool for Recommender Systems Experimentation		Locate Who You Are: Matching Geo-location to Text for User Identity Linkage	SoMeSci—A 5 Star Open Data Gold Standard Knowledge Graph of Software Mentions in Scientific Articles		CoST: An annotated Data Collection for Complex Search	Matches Made in Heaven: Toolkit and Large-Scale Datasets for Supervised Query Reformulation	RCES: Rapid Cues Search Using Taxonomies for Query		Deep Active Learning for Text Classification with Diverse Interpretations	CoSEM: Contextual and Semantic Embedding for App Usage Prediction	Spectral Graph Attention Network with Fast Eigen-approximation			GGP: A Graph-based Grouping Planner for Explicit Control of Long Text Generation	Discovery of Temporal Graph Functional Dependencies		WhatTheWikiFact: Fact-Checking Claims Against Wikipedia			Multi-Task Self-Supervised Learning for Script Event Prediction	Subtractive Aggregation for Attributed Network Anomaly Detection		Attention Based Subgraph Classification for Link Prediction by Network Re-weighting	A Cohesive Structure Based Bipartite Graph Analytics System	Visual Question Answering using Scene Graphs	Towards Robustness to Label Noise in Text Classification via Noise Modeling	Beamer: An End-to-End Deep Learning Framework for Unifying Data Cleaning in DNN Model Training and Inference	
6	Vandalism Detection in OpenStreetMap via User Embeddings	Uncertainty-Aware Self-Training for Semi-Supervised Event Temporal Relation Extraction					RecBole: Towards a Unified, Comprehensive and Efficient Framework for Recommendation Algorithms				WorldKG: A World-Scale Geographic Knowledge Graph		Query Embedding Pruning for Dense Retrieval	State-Aware Meta-Evaluation of Evaluation Metrics in Interactive Information Retrieval	Knowledge-Aware Neural Networks for Medical Forum Question Classification		Leveraging Domain Information to Classify Financial Documents via Unsupervised Graph Momentum Contrast	Self-Supervised Learning based on Sentiment Analysis with Word Weight Calculation	Towards Anomaly-resistant Graph Neural Networks via Reinforcement Learning			Automatic Error Correction Using the Wikipedia Page Revision History	Region-Invariant Normalizing Flows for Mobility Transfer					Mitigating deep double descent by concatenating inputs			VERSACHI (see above)		Using Neighborhood Context to Improve Information Extraction from Visual Documents Captured on Mobile Phones	Counterfactual Generative Smoothing for Imbalanced Natural Language Classification		
7							Dual Correction Strategy for Ranking Distillation in Top-N Recommender System				AliMe MKG: A Multi-modal Knowledge Graph for Live-streaming E-commerce		On Approximate Nearest Neighbour Selection for Multi-Stage Dense Retrieval	DML: Dynamic Multi-Granularity Learning for BERT-Based Document Reranking	MVQAS: A Medical Visual Question Answering System		TagPick: A System for Bridging Micro-Video Hashtags and E-commerce Categories	Enhancing Aspect-Based Sentiment Analysis with Supervised Contrastive Learning	Projective Ranking: A Transferable Evasion Attack Method on Graph Neural Networks			NQuAD: 70,000 + Questions for Machine Comprehension of the Numerals in Text	Location-Aware Named Entity Disambiguation													
8							Graph Structure Aware Contrastive Knowledge Distillation for Incremental Learning in Recommender Systems				An RDF Data Management System for Conflict Casualties		PyTerrier: Declarative Experimentation in Python from BM25 to Dense Retrieval	MSMarco Chameleons: Challenging the MSMarco Leaderboard with Extremely Obstinate Queries	SearchEHR: A Family History Search System for Clinical Decision Support		QuaPy: A Python-Based Framework for Quantification	Span-level Emotion Cause Analysis with Neural Sequence Tagging				VerbCL: A Dataset of Verbatim Quotes for Highlight Extraction in Case Law	Reevaluating the Change Point Detection Problem with Segment-Based Bayesian Online Change Point Detection													
9											SPARQL-vision: A platform for Querying, Visualising and Exploring SPARQL endpoints			GDFM: Gene Vectors Embodied Deep Factorization Machines for Interaction prediction	IMAS++: An Intelligent Medical Analysis System Enhanced with Deep Graph Neural Networks		Form 10-Q Itemization	Span-Level Emotion Cause Analysis by BERT-based Graph Attention Network																		
10															Age Inference Using A Hierarchical Attention Neural Network			A Sentiment and Style Controllable Approach for Chinese Poetry Generation																		
11																		RABERT: Relation-Aware BERT for Target-Oriented Opinion Words Extraction																		
12																		CANCN-BERT: A Joint Pre-training Language Framework for Classical and Vernacular Chinese																		