Session Urban Computing	Entities and Rela	tions Conversations	Interpretability and explanation	Sequential and Temporal Recommendati	Specific & POI	Learning methods for recommenda tion	Recommend ation and Collaborative Filtering	Computational Advertising	Social Networks	Knowlege 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 Gr	raph 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		Scalability issues in Machine Machine Learning Learning	Crowdsourcin g & Human Computation Gra	gorithmic ues in Idi aph Mining Gr	iosyncratic raph Mining Multimedia	Dealing with Difficult Data (Data Quality, Data Curation and De- noising) Neural Architer Search	
Discovering Urban Functions of High-Definition Zoning with Continuous Human Traces	Reinforced Active	A Neural Conversation Generation Model via Entity Equivalent Shared Memory Investigation	A Study of Explainability Features to Scrutinize Faceted Filtering Results	CBML: A Cluster-based Meta-learning Model for Session-based Recommendation	LightMove: A LightWeight Next-POI Recommendatio n forTaxicab Rooftop Advertising	2ero Shot on the Cold-Start Problem: Model- Agnostic Interest Learning for Recommende r Systems	A Knowledge- Aware Recommende r with Attention- Enhanced Dynamic Convolutional Network	10 Unbiased Filtering Of Accidental Clicks in Vertzon Media Native Advertising	Unsupervised Large-Scale Social Network Alignment via Cross Network Embedding	10 Leveraging Semantic Information to Facilitate the Discovery of Underserved Podcasts	When Hardness Makes a Difference: Multi- Hop Knowledge Graph Reasoning over Few-Shot Relations	Pre-training for Ad-hoc Retrieval: Hyperlink is Also You Need	10 Robust Learning to Troubleshoot Query Performance Problems	11 Multi-Property Molecular Optimization using an Integrated Poly-Cycle Architecture	Meta Hyperparame er Optimization with Adversarial Proxy Subset- Sampling	Unsupervised Categorical Representation Learning for Package Arrival Time Prediction	Generating Compositiona Da I Color Kn Representatio Re ns from Text in I	tatatype-Aware nowledge Graph tepresentation Learning Hyperbolic Space	9  Node2Grids: A Cost-Efficient Uncoupled Training Framework for Large-Scale Graph Learning	Summarizing Long-Form Document with Rich Discourse Information	50 Ways to Bake Cookie: Mapping the Landscape of Procedural Texts	a  HASTE: A Distributed System for Hybrid and Adaptive Processing on Streaming Spatial-Textual Data	Random Sampling Plus Fak Data: Multidimensional Frequency Estimates With Local Differential Privacy	DESYR: Definition and Syntactic Representation Based Claim Detection on the Web	9 Prohibited Item Detection on Heterogeneous Risk Graphs	9 USER: A Unified Information Search and Recommendati on Model based on Integrated Behavior Sequence	To Be or not to State-Action of Be, Tail Labels Efficient Multi-label Learning Learning Learning	8 8  Gra  Gra  Task Allocation Bas  for with Geographic Euc  Partition in Dist  Spatial and  Crowdsourcing App	aph sbedding sed on clidean clidean tance Matrix the d its Dis plications Se	Region Semaniscally In Influencing In Influential: Sparity Second Vetwork for Sparity	Explanations for Trained Data Repair Network Through On-Dev Shapley Values Adaptati	Meta- ice
PATROL: A Velocit Control Framework for Autonomous Vehicle via Spatial Temporal Reinforcement Learning	y k Learning Discrimin and Unbiased Representations fr Few-Shot Relation Extraction Mining Software E	native POSSCORE: A Simple Yet Effective Evaluation of Conversational Search with Part of Speech Labelling intilities	Model-agnostic vs. Model-intrinsi Interpretability for Explainable Product Search On the Diversity and Explainability	What is Next when Sequentia c Prediction Meet Implicitly Hard Interaction?	SAR-Net: A Scenario-Aware Ranking Network for Personalized Fair Il Recommendatio n in Hundreds of Travel Scenarios	Reinforcemen t Learning to Optimize Lifetime Value in Cold-Start Recommenda tion	CausCF: Causal Collaborative Filtering for Recommenda tion Effect Essmation	Query-Variant Advertisement Text Generation with Association Knowledge CHASE: Commonsense-	Learning Ideological Embeddings from Information Cascades	Complex Temporal Question Answering on Knowledge Graphs	Cycle or Minkowski: Which is More Appropriate for Knowledge Gragh Embedding	Mixed Attention Transformer for Leveraging Word- Level Knowledge to Neural Cross-Lingual Information Retrieval	Principled Multi-Aspect Evaluation Measures of Rankings	Multi-hop Reading on Memory Neural Network wit Selective Coverage for Medication Recommendation	th ClaSP - Time Series Segmentation Enabling	Towards Open Benchmarkin g for Click- Through Rate Prediction CloudRCA: A	QuAX: Mining the Web for Clir High-utility Pre FAQ Mo	cick-Through Rate rediction with Multi- lodal Hypergraphs	Structural Temporal Graph Neural Networks for Anomaly Detection in Dynamic Graphs	Multi-Factors Aware Dual- Attentional Knowledge Tracing	AudiBERT: A Deep Transfer Learning Multimodal Classification Framework for Depression Screening	ETA Prediction with Graph Neural Networks in Google Maps  Learning to Bundle Proactively for	Natural Language Understanding with Privacy- Preserving BERT	ARGH!: Automated Rumor Generation Hub	Detection of Illicit Drug Trafficking Events on Instagram: A Deep Multimodal Multilabel Learning Approach  Could You Describe the Reason for	Seq2Bubbles: Region-Based Embedding Learning for User Behaviors in Sequential Recommenders Understanding	Detecting the Fake Candidate Instances: ALADDIN: Asymmetric Centralized with Generative Training for Adversarial Networks Deep Learni	Privacy- Preserving Batch-based Task Assignment in Spatial Crowdsourcing with Untrusted New York Server Dec	odi Sin aling Up Ap tance- of I core Co re Ter composition Ne	leN: multaneous proximation Multiple Motif Deep Self- sunts in Large Adaptive Hashing for tworks Image Retrieval satial- Multi-modal	Causal-Aware Generative Imputation for Automated Underwriting Neural Architec Search	Neural ad paces e ture
PeriodicMove: Shil aware Human Mobility Recovery with Graph Neural Network	in Scientific Literat Document-level Ni for an Extremely Imbalance and Las scale Task		of Recommender Systems: A Practical Framework for Enterpris App Recommendation	Self-Supervised Co-Training for Session-based Recommendation	SNPR: A Serendipity- Oriented Next POI Recommendation Model	and Distill: Distilled Reinforcemen t Learning in Recommenda tion	How Powerful is Graph Convolution for Recommenda tion?	Enriched Advertising on Search Engine with Explic Knowledge	It Detecting Communities from Heterogeneous Graphs: A Context Path- based Graph Neural Network Model	Automated Query Graph Generation for Querying Knowledge Graphs	Differentially Private Federated Knowledge Graphs Embedding	Jointly Optimizing Query Encoder and Product Quantization to Improve Retrieval Performance	Learning Multiple Intent Representations for Search Queries	Prescribing-Dispensing Network for PDMP	Efficiency- Precision Trade-offs for Label Trees in Extreme Classification	Root Cause Analysis Framework for Cloud Computing Platforms	Reinforcemen t Learning to Optimize Lifetime Value in Cold- Start Recommenda Tre tion	ree Decomposed Graph leural Network	Understanding and Resolving Performance Degradation in Deep Graph Convolutional Networks	fast Extraction of Word Embedding from Q-contexts	Fine and Coarse Granular Argumer Classification before Clustering	On-Demand Meal Delivery	Large-scale Secure XGB for Vertical Federated Learning	r Mitigating negative influence diffusion is hard	the Transfer?: A Reinforcement Learning Based Voice-Enabled Bot Protecting Customers from Financial Frauds	Job Seeker Funnel for Search and Discovery Personalization	Interpreting Convolutional Sequence Model by Learning Local Prototypes with Adaptation Regularization  An Efficient Quantitative Approach of Convolution Neural Networks	Popcorn: Human-in-the- Ioop Popularity Debiasing in al Conversational Recommender Systems Gra	Ter So So Fer Fin Ho Ho Honda: Robbust Pre resonalized Co geRanks in De olving Se aphs Ers	imporal- cicial Mutti- berry for sature-based ne Grained ot Spots ediction for outent silvery avvices in 5G a	L^22NAS Learning Adversarial Optimize Kernel Architec Sampling on via Cont Class- imbalanced Reinford Data Streams Learning	to Neural tures inuous- tement
	Relation Prediction e Graph Neural Netial in Heterogeneous Information Netwo with Missing Type Information	work Evaluating Human-Al orks Hybrid Conversational	The Skyline of Counterfactual Explanations for Machine Learnin Decision Models	n with Temporal Graph	Similarity, & Discovery in Music Recommendations  One Model to	Counterfactua I Review- based Recommenda	LT-OCF: Learnable- Time ODE- based Collaborative Filtering	Enhancing Explicit and implicit Feature Interactions via Informatio Sharing for Parallel Deep CTR Models Heterogeneous Graph	Influence Maximization With Co-Existing Seeds	SeeQuery: An Automatic Method for Recommending Translations of Ontology Competency Questions into SPARQL-OWL	DisenKGAT: Knowledge Graph Embedding with Disentangled Graph Attention Network	Prioritizing Original News on Facebook	Query Reformulation for Descriptive Queries of Jargon Words Using a Knowledge Graph based on a Dictionary	Into the Unobservables: A Multi-range Encoder- decoder Framework for COVID-19 Prediction	k-sums clustering: a stochastic optimization approach	Niche Detection in User Content Consumption Data	Multi-Aspect		Cache-based GNN System for Dynamic Graphs	Weakly-labeled Behavior Data for	for Question Answering			t based Fake News Detection via Model Preference Learnin WikiCheck: An end-to-end	Crawler Detection in Location-Based	Continuous Propagation and Evolution on Interaction Graph	CilExplore: Curiosity and Influence-based a Exploration in Multi-Agent Cooperative Scenarios with Resource- Sparse Rewards Task Learnir	er with Worker Ada Churn Rec Prediction for Sim ti- Spatial Mes	nilarity Re	ontrastive Non-Visual	Automated Selection of Multiple Degrads Datassets for Extension by Integration Search	ance ation of tiable
Robust Road Network Representation Learning: When Traffic Patterns Meet Traveling Semantics	Are Negative Sam Necessary in Entity Alignment? An Approach with Hig Performance, Scalability and Robustness	ldentifying Untrustworth sh Samples: Data Filtering for Open-domain		Attentive F- Sequential	Adaptive Recommender for Multi-Domain CTR Prediction	Recommenda tion with Counterfactua I User Preference Simulation	Recommenda tion with Self- Supervised Metagraph Informax Network Refined	Neural Networks for Large Scale Bid Keyword Matching  TSI: an Ad Text Strength	A Deep Learning Framework for Self-evolving Hierarchical	Extraction from Semi-structured	HopfE: Knowledge Graph Representation Learning using Inverse Hopf Fibrations	PSSL: Self-supervised Learning for	Evaluating Relevance Judgments with Pairwise Discriminative Power	GraphITE: Estimating Individual Effects of Graph- structured Treatments	Clustering for Temporal Networks Elastic and	Sequence Augmentation for Early Graph-based	Reports of		LiteGT: Efficient and Lightweight Graph Transformers	Match-Ignition: Plugging PageRank into Transformer for Long-form Text Matching	Multi-Relational Graph based Heterogeneous Multi-Task Learning in Community Question Answering	Attention Based Dynamic Graph Learning Framework for Asset Pricin	Single Node Injection Attack against Graph Neural Networks	open source Automatic Fact- Checking API based on Wikipedia	Services using Attributed Action Net	DCAP: Deep Cross Attentional Product Network for User Response Prediction Contrastive	Fairness-Aware Alignment for Training of Class-Aware Decision Trees Unsupervise	re privacy- preserving task Par e matching in Cor ed blockchain- Sea	arch on Att	ssed Hierarchical tributed Modeling for	BNN: Boosting Neural Network Architec Framework Search Utilizing Limited Graph Amount of Data Classific	cture for
Actionable Insights in Urban Multivariate Time-series	Multi-view Interacti	fion for Coarse-to-Fine Shot Grained Preference	XPM: An Explainable Deep Reinforcement Learning Framework for Portfolio Management	Excitation for Sequential Recommendation	Personalized Ranking for On- Demand Food Recommendation	Learning for Large-scale Item Recommenda tions	Relationships for Recommenda tion with Ultra Simplified Graph Convolutional Network	Indicator using Text-to- CTR and Semantic-Ad- Similarity  From Pixels To Words: A	SCMGR: Using Social Context and Multi- Granularity Relations for Unsupervised Social Summarization	Annotation for	Modeling for Out- of-Knowledge-Base	Mixture-Based Correction for Position and Trust Bias in Counterfactual Learning to Rank	Incorporating Query Reformulating Behavior into Web Search Evaluation Dual Learning for Query	Mental Spot: Effective Early Screening for Depression Based on Social Contagion	Stable Compaction for LSM-tree: Approach on TerarkDB	Mining Cross Features for Financial Credit Risk Assessment From Closing	recommendat LE ion Questions Ne using Tourism Los Reviews Re	ocal Energy	Construction by	Grammatical Error Correction with Dependency Distance EasyTransfer: A	Behind the Scenes: An Exploration of Trigger Biases Problem in Few- Shot Event Classification	AdaRNN: Adaptive Learning and Forecasting of Time Series	AMPPERE: A Universal Abstract Machine for Privacy Preserving Entity Resolution Evaluation	y- Sparse Shield: Social Networ Immunization vs Harmful Speech	Fraud Detection under Multi-Sourced Extremely Noisy Annotations AutoCombo: Automatic Malware	Modeling via Data Augmentation	r Task- Heterogeneous Influence- Model-Agnostic guided Data Meta-Learning Augmentatic for Few-Shot for Neural Learning Across Tensor Modalities Completion	n towards Acc Accurate And Cognitive bas Diagnosis Pre	st and Sin curate Se chor Graph- sed Label Infediction Ne	eural PathSim r Inductive milarity sarch in Exemplars Exemplars Learning for formation Fast Image etworks Retrieval	Scarcesans: Discriminative Classification Framework for Rare Class Identification for Architec Longitudinal Data with Weak Prior Rate Pre	tic ed cture er For ough
Addressing the Hardness of k- Facility Relocation Problem: a Pair of Approximate Solutions GEDIT:		Adaptive Posterior Knowledge Selection for Improving Knowledge- 9 Side Grounded Dialogue Generation	r Towards Self-Explainable Graph Neural Network		Popularity- Enhanced News Recommendation n with Multi-View Interest Representation You Are What	Reinforcemen t Learning for Online Recommenda tion	Incremental Graph Convolutional Network for Collaborative Filtering Semi-	Scalable Journey Of Text Information From Product Images To Retail Catalog	Diffusion Prediction with	and its approximations in Ontology-based Data Management CADRE: A Cloud-	Embedding Framework for Efficient Inference	Contrastive Learning of User Behavior Sequence for Context- Aware Document Ranking	Generation and Query Selection in Query Feeds Recommendation			Triangles to Higher-Order Motif Closures for Better Unsupervised Online Link	Approach to Keyphrase Extraction in Ind	nductive Matrix completion Using Graph	Node Mapping between Large	SAUCE: Truncated	Autoregressive Model for Spoken Language Understanding Flexible O&M for	Self-supervised representation learning on dynamic graphs	FedMatch: Federated Learni Over Heterogeneous Questi Answering Data	SciClops: Detecting and contextualizing Scientific con Claims for Assisting Manual Fact-Checking	Signature Generation Through Combination Rule Mining  Toward an Effective Black-Box	Contextual Skill	Average Efficient Mul Treatment Scale Featu Effects via Generation Orthogonal Adaptive Regularization Network	Wikipedia with a y Co 6- Machine-in-the- re Loop Approach Sim Buil	mprehensivel Trucomputing Ma k-based over nilarities by Graiding A Co ndom Surfer base	instrained Learning Joint Embedding with Modality Fer Large Alignments for raphs: A Cross-Modal Embedding with Modality Cross-Modal Embedding with Modality Mo	Speedup Robust Graph Structure Learning with Low-Rank Information From Limited	
Geographic- Enhanced and Dependency- Guided Tagging for Joint POI and Accessibility Extraction at Baidu Maps	Topic-aware	Analyzing Mixed raph Initiatives and Search r Link Strategies during Conversational Search	Learning Saliency Maps to Explain Deep Time Series Classifiers	Dynamic Representations on Time-Sliced User-Item Interaction Graphs for Sequential Recommendation	Enhanced AttentionNetwork for Explainable POI Recommendation	CMML: Contextual Modulation Meta Learning for Cold-Start Recommenda	Autoencoder for Recommenda	Multi-task Learning for Bias-Free Joint CTR Prediction and Market Price Modeling in Online Advertising Distilling Knowledge from	Adversarial Separation Network for Cross-Network Node Classification	Based Data Service for Big Bibliographic Data	Knowledge Graph Representation Learning as	Technology-Assisted	DSDD: Domain-Specific Dataset Discovery on the Web	GF-VAE: A Flow-based Variational Autoencoder for Molecule Generation	Same-Cluster Queries	Mining Bursty Groups from Interaction Data	Su	louble-Scale Self- upervised Hypergraph onvolutional Network for troup Recommendation	on Heterogeneous	Sparse Document Signature Bit- Vectors for Fast Web-Scale Corpus Expansion	at Huawei: A Lanugage Model-	ECMA: An Efficient Convoy Mining Algorithm for Moving Objects	Connecting Networks via Adversarial Learning	A Projected Gradient Method for Opinion Optimization with Limited Changes of Susceptibility to Persuasion	Adversarial Attack on Functional JavaScript Malware against Commercial An5-Virus	LinkedIn	Revisiting State Augmentation methods for Reinforcement Learning with Stochastic Learning in	r Skyline in of N	nimizing ectral Radius Non- ektracking trix by Edge moval	Concept-Aware Denoising Graph Neural Network for Micro-Video Recommendati on	Data: A Case Study in the Milk Industry	
DynSTGAT: Dynamic Spatial- Temporal Graph Attention Network for Traffic Signal Control	Entity and Relation Matching Consens for Entity Alignmen	sus Learning for Dialogue nt Management	d Explaining Visual Similarity and Classification via Gradient Activation Maps	Sequential Recommendation	Modeling Textual Content with Word Graph for News Recommendatio	Learning An End-to-End Structure for Retrieval in Large-Scale Recommenda	SimpleX: A Simple and Strong Baseline Model for Neural Collaborative Filtering	BERT into Simple Fully Connected Neurila Networks for Euffaliant Vertical Retrieval	Maximization in Multi-Relational Social Networks	Computing and Maintaining Provenance of Query Result Probabilities in Uncertain	in	Learning to Augment Imbalanced Data for Re-ranking Models	Commerce Search	#StayHome or #Marathon? Social Media Enhanced Pandemic Surveillance on Spatial-temporal Dynamic Graphs	Rapid Algebraic Modeling System for Million- variable Optimization	horizon Transaction Metric Estimation with Multi- modal Learning in Payment Networks	Se Cla Vie	emi-Supervised and elf-Supervised lassification with Multi-	Rectifying Pseudo Labels: Iterative Feature Clustering for Graph Representation Learning	Metric Sentiment Learning for Label Representation	Improving Chines Character Representation with Formation Graph Attention Network	Learning to Learn the Future: Modeling Concept Drifts in Time Series Prediction	Desirable Companion for Vertical Federated Learning: New Zeroth-Order Gradient Based Algorithm		Certification and Trade-off of Multiple Fam Detection (Graph-based Spam Detection	Two-tier Graph Contextual Embedding for Cross-device User Matching	Memory for the Inference LSTM with through Attention Contextual	ling		Assorted Attention Network for Cross-Lingual	for Pre-training	
Learning for Population Mappin	Learning Entity Representations in Long-Tail via Varia g Bayesian Network	itional	CountER: Counterfactual Explainable Recommendation	Sequential Search with Off- Policy Reinforcement Learning	VPALG: Paper- publication Prediction with Graph Neural	XMarket: Cross-Market Training for Product Recommenda	Disentangling Preference Representatio ns for Recommenda	Efficient Learning to Learn a Robust CTR Model for Web-scale Online Sponsored Search Advertising	supervised Approach to Twitter Account Representation Learning and its	Predicting Instance Type Assertions in Knowledge Graphs Using Stochastic Neural Networks	REFORM: Error- Aware Few-Shot Knowledge Graph	Cascaded Deep Neural Ranking Models in LinkedIn People Search	Driving the Herd: Search Engines as Content Influencers	Tracking Semantic Evolutionary Changes in Large-Scale Ontological Knowledge Bases	Pack: A Data- Driven Tree	with Multi- granularity Data: A	lab	emi-supervised Multi- ibel Learning for Graph- tructured Data		HORNET: Enriching Pre- trained Language Representations with Heterogeneous Knowledge Sources	POSHAN: Cardin POS Pattern Guided Attention for News Headline Incongruence		S				Understanding Event Predictions via Predictions via Optimization Under Multi- Feature Covariate SI	witt.		Network and Causal	Tabular Functional Block Detection with Embedding- based Agglomerative Cell Clustering	
Failure Prediction for Large-scale Water Pipe Networks Using GNN and Tempora Failure Series	ıl		MedRetriever: Target-Driven Interpretable Health Risk Predicti via Retrieving Unstructured Medic Text		Expanding Relationship for Cross Domain Recommendation							Defining an Optimal Configuration Set for Selective Search Strategy - A Risk- Sensitive Approach		HierST: A Unified Hierarchical Spatial-tempora Framework for COVID-19 Trend Forecasting	Top-k Tree Similarity Join		Ne	daGNN: Graph Neural letworks with Adaptive requency Response liter				Spatio-Temporal-Categorical Graph Neural Networks for Fine-Grained Multi-Incident Co-Prediction					The Shapley Value of Classifiers in for Partial Ensemble Games  CANN: Cour Approximatia Netwa Netwa For Partial Domain Adaptation	nn .			A Unified View on Graph Neural Networks as Graph Signal Denoising	