sion urban Computing pers in sion 11	Entities and Relation	Conversations	Interpretability and explanations	Sequential and Temporal Recommendati on	Specific & POI meth	ing Recommends for ation and Collabora Filtering	tive 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	ta 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 Security	Fake news, rumours and fact checking (harmful online content)	Cybersecurity, threats and frauds	USers and User Modelling Learnin		Crowdsourcin g & Human Computation	Algorithmic Issues in Idiosync Graph Mining Graph M	ratic ming Multimedia		Neural TOTA Architecture Search S
Discovering Urban Functions of High- Definition Zoning with Continuous Human Traces	Reinforced Active Enti Alignment	A Neural Conversation Generation Model via 9 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 Zero: the C Next-POI Recommendation for facicab Rooftop Advertising Learn Recommendation Recommendation Rooftop Advertising Recommendation Reco	shot on Id-Start Aware m: Recomme r with tic Attention- tt Enhanced ng for Dynamic rmende Convolutic ms Network	ge- Accidental Clicks in Verizon Media Native Advertising	Unsupervised Large-Scale Social Network Alignment via Cross Network Embedding	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	Robust Learning to Troubleshoot Query Performance Problems	Multi-Property Molecular Optimization using an Integrated Poly-Cycle Architecture	Meta Hyperparamet er Optimization with Adversarial Proxy Subsets Sampling	Unsupervised Categorical Representation n Learning fo Package Arrival Time Prediction	Generating Compositions I Color Representatio ns from Text	Datatype-Aware Knowledge Graph Representation Learning in Hyperbolic Space	Node2Grids: A Cost-Efficient Uncoupled Training Framework for Large-Scale Grap Learning	Summarizing Long-Form Document with Pich 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 Fake Data: Multidimensional Frequency Estimates With Local Differential Privacy	DESYR: Definition and Syntactic Representation Based Claim Detection on the Web	Prohibited flem Detection on Heterogeneous Risk Graphs	USER: A Unified Information Search and Recommendati on Model based on Integrated Behavior Multi-lat Sequence USER: A Unified Be, Tail in Extre Behavior Learnin	Jointly-Learn or not to I Labels Embedding fire eme Efficient bel Reinforceme Learning	Task Allocation with Geographic Partition in t Spatial Crowdsourcing	Graph Embedding Based on Euclidean Distance Matrix and its Disparity Applications On Influe Seeding	Region Semantically Aligned ntial: Network for Zero-Shot Learning	Explanations for Data Repair Through Shapley Values	Pruning Meta- Trained Networks for On-Device Adaptation
PATROL: A Velocity Control Framework for Autonomous Vehicle via Spatial- Temporal Reinforcement Learning	Learning Discriminativ and Unbiased Representations for Few-Shot Relation Extraction	POSSCORE: A Simple Yet Effective Evaluation of Conversational Search with Part of Speech Labelling	Model-agnostic vs. Model-intrinsic Interpretability for Explainable Product Search	What is Next when Sequentia Prediction Meets Implicitly Hard Interaction?	SAK-Net: A Scenario-Aware Ranking Network for Personalized Fair al Recommendatio s n in Hundreds of Travel Scenarios	reemen Causal reemen Collaborat ing to Ellering for Recomme to Value tion Effect 1-Start immenda	or o	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 wi Selective Coverage for Medication Recommendation	th ClaSP - Time Series Segmentation	Towards Open Benchmarkin g for Click- Through Rate Prediction	n QuAX: Mining the Web for High-utility FAQ	Click-Through Rate Prediction with Multi- Modal Hypergraphs	Structural Temporal Graph Neural Networks for Anomaly Detection in Dynamic Graphs	Multi-Factors Aware Dual- Attentional Knowledge Tracing	Deep Transfer Learning Multimodal Classification Framework for Depression Screening	ETA-Prediction with orapin Neural Networks in Google Maps	Natural Language Understanding with Privacy- Preserving BERT	ARGH: Automate Rumor Generation Hub	Berection of intitut rung framicong Events on instagram: A Deep Multimodal Multilabel Learning Approach	Seq2Bubbles: Region-Based Embedding Learning for User Behaviors in Sequential Recommenders Detection Sequential Recommenders Network		Privacy- Preserving Batch-based Task Assignment in Spatial Crowdsourcing with Untrusted Server	odeN: Scaling Up Distance- generalized Counts in Core Temporal Decomposition Networks	eous ation • Motif Deep Self- Large Adaptive Hashing for Image Retrieval	Generative Emputation for Automated Underwriting	ronling Neural Blocks and Jesign Spaces for Mobile Neural Architecture Search
PeriodicMove: Shift aware Human Mobility Recovery with Graph Neural Network	Mining Software Entiti in Scientific Literature: Document-level NER for an Extremely Imbalance and Large- scale Task	Learning Implicit User Profile for Personalized Retrieval-Based Chathot	On the Diversity and Explainability of Recommender Systems: A Practical Framework for Enterprise App Recommendation	Self-Supervised Co-Training for Session-based Recommendation	Explo and E Distil Reinf LLear SNPR: A Reco Sendipily- Oriented Next POI or Model	e, Filter still: di rcemen ing in menda is Graph Convolutic for Recomme tion?	CHASE: Commonsense- Enriched Advertising on Search Engine with Expli Knowledge	cit 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	Enabling Efficiency- Precision Trade-offs for Label Trees in Extreme Classification	CloudRCA: A Root Cause Analysis Framework for Cloud Computing Platforms	Reinforcemen t Learning to Optimize Lifetime Value in Cold- Start Recommenda	Tree Decomposed Grapt Neural Network	Understanding an Resolving Performance Degradation in Deep Graph h Convolutional Networks	Fast Extraction of Word Embedding from Q-contexts	Fine and Coarse Granular Argumer Classification before Clustering	Learning to Bundle Proactively for On-Demand Meal Delivery	Large-scale Secure XSB for Vertical Federated Learning	Mitigating negative influence diffusion is hard	Could You Describe the Reason for the Transfer? A Reinforcement Learning Based Voice-Enabled Bot Protecting Customers from Financial Frauds	Understanding Job Seeker Funnel for Search and Discovery Personalization Model L Learnin Prototyl Adaptat Regulas	eting utional An Efficient nce Quantitative by Approach for g Local pes with Convolutiona ition Neural Networks	Popcorn: Human-in-the- loop Popularity Debiasing in Conversational Recommender Systems	Spatial- Temporal Social Mr. Feature-t Fine Grain Hot Spot Agenda: Robust Prediction Personalized Content PageRanks in Evolving Services Graphs Era	Multi-modal Dictionary Illi- ased Cross-modal of Geo Search in Baidu Advertising	Adversarial Kernel Sampling on Class- imbalanced Data Streams	L^2NAS: Learning to Optimize Neural Architectures via Continuous- Action Reinforcement Learning
Relational Inductive Bias: Graph Neural	Relation Prediction vis Graph Neural Network in Heterogeneous Information Networks with Missing Type Information		The Skyline of Counterfactual Explanations for Machine Learning Decision Models	n with Temporal Graph	Similarity, & Coun I Recommendatio	erfactua Learnable ew- Time ODE based nmenda Collaborat Filtering		Influence Maximization With Co-Existing Seeds	Ontology Competency Questions into	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	clustering: a stochastic optimization	Niche Detection in User Content Consumption Data	Topic Modeling for t Multi-Aspect Listwise Comparisons	Graph Feature Gating Network	Cache-based GN System for Dynamic Graphs	QUEACO: Borrowing Treasures from Weakly-labeled Behavior Data for Query Attribute IN Value Extraction	with DomainKnowledg for Question		Unsupervised Domain Adaptation for Static Malware Detection based on Gradient Boosting Trees	Integrating Pattern- and Fac based Fake News Detection via Model Preference Learni WikiCheck: An end-to-end	Community-based Framework with Attention Mechanism	CIExplo Curiosii Influenc CoPE: Modeling Explora Continuous Propagation and Evolution on Interaction Graph CIExplor Curiosii Copper Sexplora Cooper Sparse Reward	ty and be-based stion in FiShNet: Fine gent Grained Filte sharing for Resource-Efficient Mult	With Worker Churn Prediction for	Measure in Learning	ve Non-Visual Accessibility for Assessment of videos	Selection of F Multiple E Datasets for E f Extension by A	Delve into the Performance Degradation of Differentiable Architecture Search
Network Representation Learning: When	Are Negative Samples Necessary in Entity Alignment? An Approach with High Performance, Scalability and Robustness	Identifying Untrustworthy Samples: Data Filtering for Open-domain Dialogues with Bayesian Optimization	ASTERYX: a model-Agnostic SaT basEd appRoach for sYmbolic and score-based eXplanations	Attentive Sequential	Serve All: Star Topology Adaptive Recommender for Multi-Domain CTR Prediction User Prefe Simul	nmenda Recomme tion with S supervise Metagraph ence Informax Network Refined	Neural Networks for Larg Scale Bid Keyword Matching elf- d	A Deep Learning Framework for Self-evolving	Semi-structured	Graph Representation Learning using Inverse Hopf	PSSL: Self-supervised Learning for Personalized Search	Evaluating Relevance Judgments with Pairwise Discriminative Power	GraphITE: Estimating Individual Effects of Graph-structured Treatments	Robust Dynamic Clustering for	Action Sequence Augmentation for Early Graph-based Anomaly Detection	Listed	Signed Bipartite Graph Neural Networks	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 Pricing	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	in Trees Unsupervises tract Domain	preserving task matching in	Pareto-optimal Community Based Search on Large Bipartite Graphs HyperGra	Modeling for ph Automated	BNN: Boosting F Neural Network A Framework S Utilizing Limited C g Amount of Data C	Architecture Search for Graph
Actionable Insights in Urban Multivariate Time- series	Multi-view Interaction Learning for Few-Shot Relation Classification	for Coarse-to-Fine	XPM: An Explainable Deep Reinforcement Learning Framework for Portfolio Management	Extracting Attentive Social Temporal Excitation for Sequential Recommendation	Aware Personalized Ranking for On- Demand Food Recommendatio n	ng for Relationsh for Recomme	f Indicator using Text-to- CTR and Semantic-Ad- Similarity	Social Summarization	Semantic Concept	Modeling for Out- of-Knowledge-Base	Mixture-Based Correction for Position and Trust Bias in e Counterfactual Learning to Rank		MentalSpot: Effective Early Screening for Depression Based on Social Contagion	Stable Compaction for LSM-tree: A FaaS-Based Approach on TerarkDB	Mining Cross Features for Financial Credit Risk Assessment	recommendat ion Questions using Tourism Reviews	LEReg: Empower Graph Neural Networks with Local Energy Regularization	Fast k-NN Graph Construction by GPU based NN- Descent	Correction with Dependency Distance	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	Sparse Shield: Social Netwo Immunization vs Harmful Speech	Fraud Detection under Multi-Sourced Extremely Noisy Annotations	Curriculum Learning for Sequential User Behavior Modeling via Data Augmentation Modelit Modaliti	geneous Influence- Agnostic guided Data earning Augmentation for Neural	Cognitive Diagnosis	Prediction Information	Multiple Exemplars neous Learning for	ScarceGAN: Discriminative Classification / Framework for / Rare Class Identification for / Longitudinal Data with Weak Prior	Automatic Integrated Architecture Searcher For
Addressing the Hardness of k- Facility Relocation Problem: a Pair of Approximate Solutions GEDIT:	Zero-shot Relation Classification from Sid Information	Adaptive Posterior Knowledge Selection for Improving Knowledge- Grounded Dialogue Generation	Towards Self-Explainable Graph Neural Network	Sequential Recommendation	Popularity- Enhanced News Reinfi Recommendatio t Lear on with Multi-View Onlin Interest Representation tion	e Deep Increment roemen Graph ning for Convolution	nal	Neural Information	Query definability and its approximations in Ontology-based Data Management CADRE: A Cloud-	Framework for Efficient Inference	Contrastive Learning of User Behavior Sequence for Context- Aware Document Ranking	Dual Learning for Query Generation and Query Selection in Query Feeds Recommendation	Integrating Static and Time- Series Data in Deep Recurrent Models for Oncology Early Warning Systems	Block Access - Pattern Discovery via Compressed Full Tensor Transformer	Better	An Interactive Neurual Network Approach to Keyphrase d Extraction in		Node Mapping between Large	EasyTransfer: A Simple and Scalable Deep Transfer Learning Ill Platform for NLP Applications	Autoregressive Model for Spoken Language	Self-supervised representation learning on dynamic graphs	FedMatch: Federated Learnin Over Heterogeneous Questic Answering Data	SciClops: Detecting and one Contextualizing Scientific on Claims for Assisting Manual Fact-Checking	AutoCombo: Automatic Malware Signature Generation Through Combination Rule Mining Toward an Effective Black-Box	Self-Supervised Learning on Users' Spontaneous Behaviors for Multi-Scenario Ranking in E- commerce Contextual Skill	e Efficient Mult ent Scale Featur via Generation onal Adaptive	Multilingual Entity Linking System for Wikipedia with a Machine-in-the- Loop Approach	Comprehensivel Truss y Computing Maximiza Link-based Similarities by Building A Random Surfer Graph Buoget-constrain Graphs:/	Embedding with tion Modality e Alignments for Cross-Modal nt- Retrieval of Recipes and	Speedup Robust Graph Structure Learning with	
Geographic- Enhanced and Dependency- Guided Tagging for Joint POI and Accessibility	Topic-aware Heterogeneous Graph Neural Network for Lir Prediction	Analyzing Mixed Initiatives and Search Strategies during Conversational Search	Learning Saliency Maps to Explain Deep Time Series Classifiers	Learning Dual Dynamic Representations on Time-Sliced User-Item Interaction Graphs for Sequential n Recommendation	and Where You s Are: Graph Enhanced CMM AttentionNetwork Conte for Explainable Modu POI Meta	determinis and .: Contrastiv tual Variational ation Graph Autoencook		Adversarial Separation Network for Cross-Network Node Classification	Based Data Service for Big Bibliographic Data	Knowledge Graph Representation Learning as Groupoid: Unifying TransE, RotatE, QuatE, ComplEx	Technology-Assisted		GF-VAE: A Flow-based Variational Autoencoder for Molecule Generation	Same-Cluster Queries	Data	'	Double-Scale Self- Supervised Hypergraph Convolutional Network for Group Recommendation	or on Heterogeneou	Sparse Document Signature Bit- Vectors for Fast Web-Scale Corpu Expansion	Telecom Networks	ECMA: An Efficient Convoy Mining Algorithm for Moving Objects	Connecting Networks via Adversarial Learning	A Projected Gradient Methol for Opinion Optimization will Limited Changes of Susceptibility to Persussion	Adversarial Attack on Functional JavaScript Malware against Commercial Anti-Virus	Proficiency via Multi-task Learning at Revisiti LinkedIn Augmentation	ntation Is for Geometric rement Heuristics for g with Transfer stic Learning in	Skyline in Crowdsourcing with Imprecise s Comparisons	Matrix by Edge	Concept-Aware Denoising Graph Neural Network for Micro-Video Recommendati on	Annotated Raw Material Data to e Quality Production Data: A Case Study in the Milk Industry	
	Entity and Relation Matching Consensus for Entity Alignment		Explaining Visual Similarity and Classification via Gradient Activation Map	Hyperbolic Hypergraphs for Sequential Recommendation	WG4Rec: Learn Modeling Textual Content with Struct Word Graph for News Recommendation Recommendation	val in Model for	Networks for Efficient Vertical Retrieval	Influence Maximization in Multi-Relational Social Networks	Computing and Maintaining Provenance of Query Result Probabilities in		: Learning to Augment Imbalanced Data for Re-ranking Models	Seasonal Relevance in E- Commerce Search	#StayHome or #Marathon? Social Media Enhanced Pandemic Surveillance on Spatial-lemporal Dynamic Graphs	Modeling System for Million- variable Optimization	Online Multi- horizon Transaction Metric Estimation with Multi- modal Learning in Payment Networks		Semi-Supervised and Self-Supervised Classification with Multi- View Graph Neural Networks	Rectifying Pseudo Labels: Iterative Feature Clustering for Graph Representation Learning			e 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 Fairness Criteria in Graph-based Spam Detection	Two-tier Graph Long Te	y for the Inference with through on Contextual	na		Assorted Attention Network for Cross-Lingual Language-to- Vision Retrieval	for Pre-training	
One-shot Transfer Learning for Population Macoince	Learning Entity Representations in the Long-Tail via Variation Bayesian Networks	Learning to Expand: Reinforced Response Expansion for Information-seeking Conversations	CountER: Counterfactual Explainable Recommendation	Sequential Search with Off- Policy Reinforcement Learning	VPALG: Paper- publication Traini Prediction with Produ	Disentang et: Preference Market Represent	atio	n SATAR: A Self- supervised Approach to Twitter Account Representation Learning and its Application in	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 Search Algorithm for Large-Scale 3D Bin	Stock Trend Prediction with Multi- granularity		Semi-supervised Multi- label Learning for Graph structured Data	. 5	HORNET: Enriching Pre- trained Language Representations with Heterogeneous Knowledge Sources	POSHAN: Cardin: POS Pattern Guided Attention for News Headline Incongruence	Beast: Scalable Exploratory Analytics on Spatio-temporal Data				Underst Event Predicti	tanding Efficient Ions via Hyperparame Usalized Optimization under Multi-			Relation Network and Causal Reasoning for Image Captioning	Tabular Functional Block Detection with Embedding-	
Failure Prediction for Large-scale Water Pipe Networks Using GNN and Temporal Failure Series			MedRetriever: Target-Driven Interpretable Health Risk Predictic via Retrieving Unstructured Medic Text	on cal	Expanding Relationship for Cross Domain Recommendation						Defining an Optimal Configuration Set for Selective Search Strategy - A Risk- Sensitive Approach		HierST: A Unified Hierarchical Spatial-tempor Framework for COVID-19 Trend Forecasting	Top-k Tree Similarity Join			AdaGNN: Graph Neural Networks with Adaptive Frequency Response Filter				Spatio-Temporal-Categorical Graph Neural Networks for Fine-Grained Multi-Incident Co-Prediction				The Sh Value of Classifi Ensemb Games	CANN: Coup apley Approximatio f Neural Netwo lers in for Partial ble Domain	ed 1			A Unified View on Graph Neural Networks as Graph Signal Denoising	