Resume of Jianxia CHEN

Basic Information

School:	School of Computer Science
Gender:	Female
Birth Date:	197012
Title:	Associated Professor
Tutor:	Master degree
Email:	1607447166@qq.com
Interest of research:	Artificial Intelligence, Knowledge Graph, Big Data & NLP

Main Research Directions

Artificial Intelligence, Knowledge Representation and Reasoning, Big Data Analysis

Enrollment Information

- October 2005-Present: Associate Professor, Graduate Supervisor, School of Computer Science, Hubei University of Technology
- August 2010-December 2015: Director of Network Engineering Department, Director of Cloud Computing Research Lab
- March 2008-August 2010: Senior Visiting Scholar, AI Lab, Washington University in St. Louis

Social Work

- 2010-Present: Member of China Computer Federation; Member of IEEE ACM
- 2010-Present: Journal Paper Reviewer for Data Intelligence, Journal of Wuhan University, Journal of Chongqing University, Journal of Hubei University of Technology, etc.

Representative Projects

(1) Foundation of Hubei University of Technology, JJH2021052, "Online Learning Platform for Big Data Major Courses Based on Knowledge Graph", December 2021-December 2023, Project leader.
(2) Hubei Institute of Standardization and Quality, 2022457, "Big Data Analysis System for Enterprise Activity in Hubei Province", January 2022 -December 2023, Project leader.
(3) Sichuan Zhiku Huitong Electric Power Technology Co., Ltd., 2021673, "Full Life Cycle Management Platform for 10kV Distribution Live Working Tools", November 2021-November 2022,Project leader.
(4) Hubei Technical Training Center of State Grid China, 2020230006, "Development

of Infrared Accurate Diagnosis and Training System for Substations Based on Temperature Field Simulation", November 2020- May 2022, Project leader.
(5) School of Electrical Engineering, Wuhan University, 2017110, "Comprehensive Evaluation System for Insulation Status of GIS Equipment (Power Big Data)", November 2017 – July 2020, Project leader.

Representative Articles

(1)Menyu Luo,**Jianxia Chen** eta.DSMRT: Query Embedding-based Multi-Hop Knowledge Graph Reasoning via Dual Sampling Strategy and Type Information. Accepted. Knowledge-Based Systems.Jan 20, 2025
(2)Ding N,**Chen** J, Liu X, Zou Z, Jiang G, Wu X, Wang J. MKL: Modularity Community Detection Based on Maximal K-plex[J].Proceeding. Neurocomputing,2025.
(3)**Chen J**, Jiang G, Ding N, Luo M, Xiao L, Huang Z, Wang J. GC-MGAE: A Novel Generative Masked Graph Autoencoder via Community-based Masking Strategy[J].Proceeding. Neurocomputing,2025.
(4)Zhongwei Huang,Jianqiang Li,Jun Wan,**Jianxia Chen**,Zhi Yang,Ming Shi,Ran Zhou,Haitao Gan:Incomplete multi-view feature selection with adaptive consensus graph constraint for Parkinson's disease diagnosis.Appl. Soft Comput. 170: 112739 (2025)
(5)Zhongwei Huang,Jianqiang Li,Jiatao Yang,Jun Wan,**Jianxia Chen**,Zhi Yang,Ming Shi,Ran Zhou,Haitao Gan:Parkinson's disease classification and prediction via adaptive sparse learning from multiple modalities.Biomed. Signal Process. Control. 100: 107061 (2025)
(6)Zhongwei Huang,Jianqiang Li,Jiatao Yang,Jun Wan,**Jianxia Chen**,Zhi Yang,Ming Shi,Ran Zhou,Haitao Gan:Adaptive feature selection with flexible mapping for diagnosis and prediction of Parkinson's disease.Eng. Appl. Artif. Intell. 146: 110342 (2025)
(7)Hang Yang,Liang Xiao,Rujun Zhu,Ziji Liu,**Jianxia Chen**:An LLM supported approach to ontology and knowledge graph construction.BIBM 2024: 5240-5246
(8)Shengxin Hong,Liang Xiao,Xin Zhang,**Jianxia Chen**:ArgMed-Agents:Explainable Clinical Decision Reasoning with LLM Disscusion via Argumentation Schemes.BIBM 2024: 5486-5493
(9)Rujun Zhu,Liang Xiao,Ziji Liu,Miaomiao He,Hang Yang,**Jianxia Chen**:A Computational Argumentation-Based Clinical Decision Support System Incorporating Patient Emotions.BIBM 2024: 5589-5596
(10)Ziji Liu,Liang Xiao,Miaomiao He,Rujun Zhu,Hang Yang,**Jianxia Chen**:PICOAS: a clinical knowledge linking model for delivering up-to-date, interrelated, and personalized decision support.BIBM 2024: 6589-6596
(11)Hang Yang,Liang Xiao,Rujun Zhu,Ziji Liu,**Jianxia Chen**:Interlinking Clinical Guidelines via Mining Medical Literature Knowledge for Multi-MorbidityDecision-Making.COMPSAC 2024: 1250-1255
(12)Meihan Yao ,ShuxiZhang ,Lang lv,**Jianxia Chen**,Mengyu Lu,Gaohang Jiang,Liang Xiao,Zhina Song:Click-Through Rate Prediction Based on Filtering-Enhanced with

Multi-head Attention.ICANN(9)2024:45-59
(13)GaohangJiang,Xu Jin,Mengyu Luo,**Jianxia Chen**,Zhongwei Huang,Jing Wang：ComMGAE:Community Aware Masked Graph AutoEncoder.ICANN(5)2024:64-78
(14)Mengyu Luo,**Jianxia Chen**,Qi Yan,Gaohang Jiang,Shi Dong,Liang Xiao,Zhongwei Huang:Improved Multi-hop Reasoning Through Sampling and Aggregating.ICANN(1)2024:131-146
(15)Miaomiao He,Liang Xiao,Hang Yang,**Jianxia Chen**,Ziji Liu O,Rujun Zhu:An Integrated Knowledge Graph for Life Quality and Survival Rate and Its Application in Decision Support.ICIC(10)2024:462-473
(16)Shijie Luo,**Jianxia Chen**,Tianci Yu,Shi Dong,GaohangJiang,Ninglong Ding:Dual Frequency-based Temporal Sequential Recommendation.IJCNN 2024:1-8
(17)Yingjie Zhang,**Jianxia Chen**,Zhou Zou,Meihan Yao,Shuxi Zhang,Liang Xiao:CSIA-GCN:A Doctor Recommendation Model Based on Interactive Graph Convolutional Networks.JCNN 2024:1-8
(18)Haoran Chen; **Jianxia Chen** eta;Link Prediction Based on the Sub-graphs Learning with Fused Features.The 30thInternational Conference on Neural Information Processing (ICONIP 2023).
(19)Tianci Wang; **Jianxia Chen** eta.:Inductive Node Classification Based on Masked Graph Self-Encoders, The 19th IEEE Conference on Ubiquitous Intelligence and Computing(UIC 2022).
(20)Shuxi Zhang, **Jianxia Chen** eta.:Interactive Selection Recommendation Based on the Multi-head Attention Graph Neural Network. The 30thInternational Conference on Neural Information Processing (ICONIP 2023).
(21)Tianci Yu, **Jianxia Chen**:A Novel Sequential Recommendation Model Based on the Filter and Model Augmentation. (IJCNN 2023).
(22)Lei Mao,Jianxia Cheneta.:Aspect-level Sentiment Analysis Based on Convolutional Network with Dependency Tree. The 35thInternational Conference on Software Engineering and Knowledge Engineering (SEKE 2023).
(23)**Jianxia Chen** eta.:Multitemporal Sequential Recommendation Model Based on the Fused Learning Preferences, International Journal of Computational Intelligence Systems, 2023, 16(1).
(24)Yi Gao;**Jianxia Chen** eta.:Adversarial Neural Collaborative Filtering with Embedding Dimension Correlations, Data Intelligence, 2023, 5(3): 786-806.

Invention Patents

(1) Chen Jianxia, et al.; Graph Masked Auto-Encoding Learning Method, System and Storage Medium Based on Community Awareness, October 18, 2024, China, CN202410249285.6
(2) Chen Jianxia, et al.; A Graph Neural Network Recommendation Method, System and Terminal Based on Interactive Selection, January 12, 2024, China, CN202311254867.5
(3) Chen Jianxia, et al.; Course Knowledge Relation Extraction Method and System Based on Bag-of-Sentences Attention Remote Supervision, March 21, 2024, China,

CN202010758190.9
(4) Chen Jianxia, et al.; Chinese Sentence Semantic Matching Method and System Based on Multi-Granularity Siamese Network, January 26, 2024, China, CN202110323155.9
(5) Chen Jianxia, et al.; Time-Enhanced Information Sequence Recommendation Method and System Based on Graph Convolutional Network, September 19, 2023, China, CN202310817593.X
(6) Chen Jianxia, et al.; Aspect-Level Sentiment Analysis Interactive Convolutional Network Based on Dependency Tree, September 15, 2023, China, CN202211730845.7
(7) Chen Jianxia, et al.; Contrastive Learning Prediction Method and System for Heterogeneous Knowledge Graphs, August 11, 2023, China, CN202310666408.1
(8) Chen Jianxia, et al.; Collaborative Filtering Convolutional Neural Network Recommendation System and Method Based on Adversarial Matrix Factorization, July 11, 2023, China, CN202110744530.7
(9) Chen Jianxia, et al.; Bidirectional GRU Relation Extraction Data Processing Method, System, Terminal, Medium, April 18, 2023, China, CN202110261757.6
(10) Chen Jianxia, et al.; A Sequence Recommendation Method and System Based on Interactive Graph Attention Network, April 14, 2023, China, CN202210929033.9
(11) Chen Jianxia, et al.; Sequence Recommendation Method Based on Temporal Item Similarity, April 7, 2023, China, CN202210384315.5

Awarded Projects Guided for Students

(1) 2023: 16th China Undergraduate Computer Design Competition, "Undergraduate Emergency Management System" by Gong Daojun et al., First Prize in Hubei Province
(2) 2022: 15th China Undergraduate Computer Design Competition:
① "Online Recommendation Learning Platform" by Hu Shuhan et al., National Second Prize
② "Undergraduate Emergency Management System" by Xiao Yitao et al., Second Prize in Hubei Province
(3) 2021: 14th China Undergraduate Computer Design Competition:
① "Undergraduate Real-time Location Management System" by Meng Zhijie et al., Big Data Application Track, National Third Prize
② "Course Knowledge Graph Retrieval System Based on Remote Supervision" by Tian Qingwen et al., Artificial Intelligence Track, National Third Prize
(4) 2020: 13th China Undergraduate Computer Design Competition:
① "Postgraduate Recruitment Intelligent Q&A System" by Zhang Mengyuan et al., National Second Prize
② "Scrapy-Based Crawler Manager" by Wang Junhao et al., National Third Prize
③ "Deep Learning-Based Intelligent Examination System" by Zhang Qian et al., Third Prize in Hubei Province
(5) 2019: 16th "Challenge Cup" National Undergraduate Extracurricular Academic Science and Technology Works Competition, "Intelligent Judicial Case Auxiliary Decision-Making System" by Huang Yujun et al., Second Prize in Hubei Province