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His research areas include research big data computing system framework, Research on semantic search technology, Data organization and knowledge graph, User profiling and precise information services, Machine learning and visualization analysis of big data in scientific research.

He has led and participated in the development of multiple key systems and platforms at the Chinese Academy of Sciences, including PubScholar and Scholarin. He was also the project lead for “AI-Empowered Intelligence Analysis and Knowledge Services”, where he achieved significant breakthroughs in core technical capabilities and practical applications by establishing a methodological framework for enhancing knowledge discovery through LLM-based retrieval, knowledge graph construction, and multi-dimensional semantic indexing. Furthermore, he is one of the main team members of UNESCO’s “Open for Science 10” (OS10) Initiative and leads the technical development of the Open4Science platform.

#### **Selected Recent Publications:**

Xing Chenghan, Xie Jing, Wang Meng. Research on Constructing a Causal Network of Technological Evolution Based on Scientific Semantic Units.[J/OL].Information Studies:Theory & Application,1-13[2026-05-22].<https://link.cnki.net/urlid/11.1762.g3.20260204.1044.006>.

Guan Zhengyi, Xie Jing.Analysis on the Diversification of Research Methods Applied inInformation Science Based on Triadic Reciprocal Determinism,2024,68(21):16-30.

Shi Huimin, Li Jie, Xie Jing.Analysis of Characteristics of Academic Career Partnership Among Nobel Laureates in Medicine[J].Science Focus,2024,19(03):48-58.