CONTACT INFORMATION

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SUMMARY STATEMENT

I have certain experience in research and projects of scientific evaluation and data mining, familiar with text data analysis, including topic analysis, research frontier and hot spots tracking and skilled in various data visualization software. I have deeply studied the method of multiple relations fusion and applied it to path recognition of knowledge transfer, which makes the prediction more accurate. Meanwhile, I have acquired the first-class of China Postdoctoral Science Foundation funded project. Up to now, I have issued more than 50 related papers, hosted and successfully completed one national project: Methods study of interdisciplinary topic identification and prediction.

CURRENT RESEARCH INTERESTS

- Interdisciplinary Topic Identification and Prediction based on text (IDR research)
- Theory and Application Research on Informetrics
- Patent Analysis & Technology Forecasting

WORK AND RESEARCH FIELDS

- **Identification of frontier, hotspots and interdisciplinary topics (IDR)**

My research is to find a better way to obtain the scientific frontier, hotspots and interdisciplinary topics based on scientific literatures, mainly through improving the presentation modes of technical characteristics and topic cluster methods. For interdisciplinary topic identification, I construct a method to directly extract the interdisciplinary topic terms and phrases, which proves to be an effective supplement method to traditional ones.

- **Research on knowledge transfer and technology diffusion**

I systematically study the various factors affecting knowledge transfer and technology diffusion, and build a better innovation diffusion model based on topic terms analysis, which incorporates citation relations, co-author relationship and co-occurrence relationship of scientific literatures. Currently, I am studying the method of multiple relations fusion and trying to apply it in path recognition of knowledge and technology diffusion, which would improve the prediction accuracy.

- **Scientific Evaluation**

By studying the regularity and characteristics of academic publications, and deeply analyzing the paper citation features, I am committed to optimizing the quantitative methods of scientific assessment and improving single indicator of *Impact Factors* of Thomson Reuters in journal assessment. Taking multiple factors and relations of journal assessment into account, I build a

scientific quantitative evaluation method, which can better simulate the peer-review.