



國外教授來訪學術演講 「A Comprehensive Survey of Utility-Oriented Pattern Mining Techniques」

時間：2019-12-19
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The main purpose of data analytics and mining is to find novel, potentially useful patterns that can be utilized in real-world application. For identifying and evaluating the usefulness of different kinds of patterns, many techniques and constraints have been proposed. In recent years, there has been an increasing demand for utility-oriented pattern analytic and mining since it can be utilized to discover more useful and meaningful information rather than fundamental binary-based pattern mining approaches.

Besides, the utility-oriented pattern analytic and mining techniques can be applied in many domains and applications, including cross-marketing, e-commerce, finance, medical, and biomedical applications. In this talk, Prof. Lin presented a general, comprehensive, and structured overview of the state-of-the-art methods in the field of utility-oriented pattern analytic and mining techniques. The basic concept of utility-oriented techniques is first introduced, and a taxonomy of the most common and state-of-the-art approaches for mining different kinds of high-utility patterns will be presented. Several well-known open-source software packages for the pattern mining will be addressed, especially the SPMF open-source library will be introduced and presented.

Finally, Prof. Lin concluded and summarized the relevant applications of utility-oriented pattern analytic and mining techniques.



講者: Prof. Lin



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