Multi-Label Dimensionality Reduction (Chapman & Hall/Crc Machine Learning & Pattern Recognition)

Liang Sun, Shuiwang Ji, Jieping Ye

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Similar to other data mining and machine learning tasks, multi-label learning suffers from dimensionality. An effective way to mitigate this problem is through dimensionality reduction, which extracts a small number of features by removing irrelevant, redundant, and noisy information. The data mining and machine learning literature currently lacks a unified treatment of multi-label dimensionality reduction that incorporates both algorithmic developments and applications.

Addressing this shortfall, **Multi-Label Dimensionality Reduction** covers the methodological developments, theoretical properties, computational aspects, and applications of many multi-label dimensionality reduction algorithms. It explores numerous research questions, including:

- *How to fully exploit label correlations for effective dimensionality reduction*
- *How to scale dimensionality reduction algorithms to large-scale problems*
- *How to effectively combine dimensionality reduction with classification*
- *How to derive sparse dimensionality reduction algorithms to enhance model interpretability*
- *How to perform multi-label dimensionality reduction effectively in practical applications*

The authors emphasize their extensive work on dimensionality reduction for multi-label learning. Using a case study of *Drosophila* gene expression pattern image annotation, they demonstrate how to apply multi-label dimensionality reduction algorithms to solve real-world problems. A supplementary website provides a MATLAB® package for implementing popular dimensionality reduction algorithms.

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