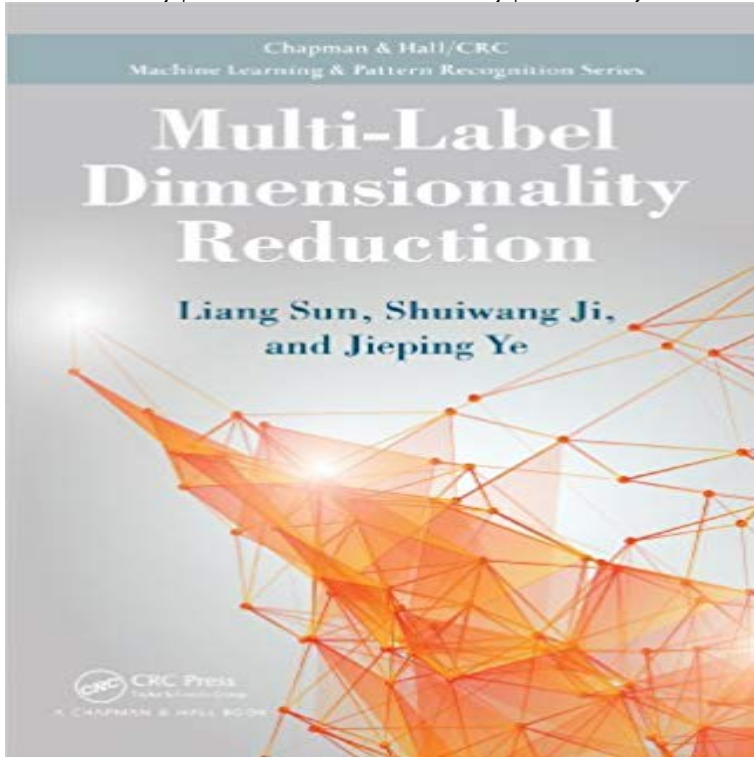


Multi-Label Dimensionality Reduction (Chapman & Hall/Crc Machine Learning & Pattern Recognition)



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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SERIES EDITORS Ralf in machine learning and pattern recognition through the publication of a broad range of reference works, textbooks, and handbooks. Chapman. & Hall/CRC. Series. **A systematic review of multi-label feature selection and a new** Applications: [Image Retrieval] [Web Search and Mining] [Face Recognition] IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, . Multi-label dimensionality reduction via dependence maximization. Ensemble Methods: Foundations and Algorithms, Boca Raton, FL: Chapman & Hall/CRC, 2012. **Evaluating Feature Selection Methods for Multi-Label Text** ML-KNN: A lazy learning approach to multi-label learning. 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