Frequent Patterns, Association and Correlation Analysis

Basic concepts


Efficient mining algorithms (including efficient algorithms for mining max and closed patterns)

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11. J. Wang, J. Han, and J. Pei, "CLOSET+: Searching for the Best Strategies for Mining Frequent Closed Itemsets", Proc. 2003 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD'03), Washington, D.C., Aug. 2003.
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15. Mohammad El-Hajj and Osmar R. Zaïane, Inverted Matrix: Efficient Discovery of Frequent Items in Large Databases in the Context of Interactive Mining, in Proc. 2003 Int’l Conf. on Data Mining and Knowledge Discovery (ACM SIGKDD), Washington, DC, USA, August 24-27, 2003
18. Gao Cong, Anthony K.H. Tung, Xin Xu, Feng Pan, Jiong Yang, FARMER: Finding Interesting Rule Groups in Microarray Datasets, SIGMOD'04

Extension of the scope: Mining multilevel, quantitative rules, correlation and causality

Constraint-based mining

8. J. Pei, J. Han, and L. V. S. Lakshmanan. Mining Frequent Itemsets with Convertible Constraints. Proc. 2001 Int. Conf. on Data Engineering (ICDE’01), Heidelberg, Germany, April 2001.

Language primitives and applications:

3. G. Dong, J. Han, J. Lam, J. Pei, K. Wang, and W. Zou, "Mining Constrained Gradients in Multi-Dimensional Databases", IEEE Transactions on Knowledge and Data Engineering, 16(5): 2004.