## Closed and Maximal Tree Mining Using Natural Representations

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1. Introduction Mining frequent trees is becoming an important task, with broad applications including chemical informatics, computer vision, text retrieval, bioinformatics, and

Web analysis. Many link-based structures may be

studied formally by means of unordered trees [...]

José L. Balcázar

Albert Bifet

the closed graph patterns discovered.

embedded subtrees[...]

In the case of trees, there are two broad kinds of subtrees considered in the literature: subtrees which are just induced subgraphs, called induced subtrees, and

subtrees where contraction of edges is allowed, called

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