

SYMPOSIUM ON BUILDING BLOCKS FOR FUTURE SPACE EXPLORATION AND
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A NEW PARALLEL ALGORITHM FOR CONSTRUCTION OF CONCEPT LATTICE

Abstract

As the core data structure of formal concept analysis concept lattice is widely used in data mining and knowledge discovery in database artificial intelligence information retrieval and rough set. However the construction efficiency of concept lattice has become a key problem with the sharp increasing of the data to deal with. A new concept lattice parallel construct algorithm-*ParaPrun*-based on the idea of dividing of the closure system is proposed. *concept lattice; construction algorithm; parallel algorithm; partition; closure system*