

Day 2 (Poster C)

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Title: Clustering with an Ising machine

Abstract:

Clustering is a typical combinatorial optimization problem. We propose a new clustering algorithm for weighted graphs using an Ising machine. This algorithm is a hybrid algorithm that solves integer quadratic fractional programming problems that optimizes the fractional objective function. It is also the extension of an inexact parametric algorithm. We compare the clustering results with a standard algorithm and the new algorithm for different data sets.