Review-5

A Learning Algorithm for Boltzmann Machines

Increasing interest in parallel search and connection-based methods has motivated efficient learning algorithms. Learners aim to represent the intricate aspects of data by communicating the compatibility of entities within themselves. One such learner is the Boltzmann Machine which is trained using an energy-based objective. The work presents a novel algorithm for training Boltzmann Machines which is based on energy compatibilities between the input and output representations. Learning is carried out in an architecture consisting of visible and hidden computational units utilizing a Boltzmann distribution to predict the probabilities of spatial representations.