Stack Overflow is a question and answer site for professional and enthusiast programmers. It's 100% free, no registration required.

Take the 2-minute tour

Data Clustering using Machine Learning [closed]

HANDS-ON CUDA® TRAINING IN THE CLOUD

OPENACC · CUDA C/C++ · CUDA FORTRAN · CUDA PYTHON · GPU-ACCELERATED LIBRARIES

LEARN MORE >>

Anybody used Neural Network approaches for clustering data? Particularly

- 1. ART Neural Network (Adaptive Resonance Theory) or
- 2. Kohonen self organizing maps

How are they as compared to k-means or any other distance based clustering Algorithms?



closed as too broad by Gene T, joran, Erik Schierboom, mishik, Soner Gönül Aug 1 '13 at 6:50

There are either too many possible answers, or good answers would be too long for this format. Please add details to narrow the answer set or to isolate an issue that can be answered in a few paragraphs.

If this question can be reworded to fit the rules in the help center, please edit the question.

maybe better places to ask this are stats.stackexchange.com or metaoptimize.com/qa - maxy Apr 26 '12 at 19:57

you may have better luck asking on an Al mailing list - nflacco May 2 '12 at 18:24

add comment

1 Answer

Self-organizing maps (SOMs) have some internal similarities with K-Means, but also important differences. A SOM actually maps your data from the original data space (usually high-dimensional) onto the map space (usually two-dimensional), while trying to preserve the original data densities and neighborhood relationships. It won't give you directly the clustering, but may help you to visually inspect the data and recognize clusters.

I know too little about ART nets.



Not the answer you're looking for? Browse other questions tagged artificial-intelligence

machine-learning neural-network cluster-analysis or ask your own question.