

Consensus Clustering

Miroslav Sabo
Faculty of Civil Engineering
Slovak University of Technology in Bratislava (Slovakia)
sabo@math.sk

Abstract

Cluster analysis (or clustering) is powerful data mining technique that tries to reduce number of data. However, many (single) algorithms have several drawbacks. Therefore, ensemble (or consensus) methods are used to find more valid solutions.

In this presentation, we show our approach to consensus clustering task via algebraic properties of lattice of partitions and differential evolution (form of stochastic optimization).

Keywords

cluster analysis, optimization, differential evolution, consensus clustering