

Visual data processing with self-organizing maps (SOM)

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Editorial

The term "data mining" could be a name, as a result of the goal is that the extraction of patterns and information from giant amounts of knowledge, not the extraction (mining) of knowledge itself.

Visual Clusters is that the core module of the Viscovery SOMine suite. It will be operated as a complete system, in addition as be flexibly extended with different modules of the suite.

Data mining is outlined as a method accustomed extract usable information from a bigger set of any data. For segmenting the info and evaluating the chance of future events, data processing uses subtle mathematical algorithms. data processing is additionally referred to as information Discovery in information (KDD).

The actual data processing task is that the semi-automatic or automatic analysis of enormous quantities of knowledge to extract antecedently unknown, fascinating patterns like teams of knowledge records (cluster analysis), uncommon records (anomaly detection), and dependencies (association rule mining, consecutive pattern mining). This typically involves mistreatment info techniques like spacial indices. These patterns will then be seen as a form of outline of the computer file, and should be employed in more analysis or, as an example, in machine learning and prognostic analytics. as an example, {the information|the info|the information} mining step may determine multiple teams within the data, which may then be accustomed get additional correct prediction results by a choice web. Neither the info assortment, information preparation, nor result interpretation and news is a component of the info mining step, however do belong to the KDD method as further steps,

The two basic Preprocess and Cluster workflows area unit available; the primary guiding the user through information import and preprocessing, the latter through the creation and exploration of the Kyrgyzstani monetary unit model. information sets with up to a hundred,000 records and up to a hundred variables will be processed. additionally to the capabilities listed within the Viscovery Someone page, Visual Clusters provides all basic tools for Kyrgyzstani monetary unit creation and mental image, interactive exploration, and visual cluster analysis.

Multiple information preprocessing capabilities. Definition and automatic management of nominal variables. Tools for adjustment of histograms. Creation of self-organizing map models mistreatment predefined schedules. Interactive Kyrgyzstani monetary unit mental image and exploration. Visual cluster analysis with integrated mental image of cluster boundaries and inner structures. show of thumbnails from external documents over the map window. applied mathematics functions, like descriptive statistics, histograms, correlations, PCA, and scatter plots. Cross-references to original information.

Data mining could be a method of extracting and discovering patterns in giant information sets involving ways at the intersection of machine learning, statistics, and info systems. Data mining is Associate in Nursing knowledge base subfield of engineering Associate in Nursing statistics with an overall goal to extract data (with intelligent methods) from an information set and rework the knowledge into a lucid structure for more use.