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Introduction of data mining and its applications

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Data mining is a technique which finds useful patterns from large amount of data. This terminology is about explaining the past and predicting the future by exploring and analyzing data. Mining information and knowledge from large databases has been recognized by many researchers as a key research topic in database systems and machine learning and by many industrial companies as an important area with an opportunity of major revenues. In terms of data processing, classical statistical models are restrictive, the knowledge and experience of specialists, equations, effective knowledge of probabilities distribution and the data must have a high quality, being subject to prior processing and transformations. Because of these disadvantages the concept of data mining has emerged. Data mining is a process consisting in collecting knowledge from databases or data warehouses and the information collected that had never been known before, it is valid and operational. Nowadays data mining is a modern and powerful IT&C tool, automatizing the process of discovering relationships and combinations in raw data. Data mining is a multi-disciplinary field which combines statistics, machine learning, artificial intelligence and database technology. Although data mining algorithms are widely used in extremely diverse situations, in practice, one or more major limitations almost invariably appear and significantly constrain successful data mining applications.

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