CASE BASED REASONING - A POWERFULL ARTIFICIAL INTELLIGENCE APPROACH

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Case-based reasoning is a relatively new and promising area of artificial intelligence. In general speaking, case-based reasoning (CBR) is a reasoning method that facilitates knowledge management in which knowledge is a case base acquired by a learning process. Case-based reasoning can be used, for solving problems, in many practical domains such as: mechanical engineering, medicine, business administration etc. Furthermore, for each domain, various task types can be implemented. Some of them are: classification, diagnosis, configuration, planning, decision support etc.

The purpose of this paper is to present basic concepts of this promising area. At the beginning, some technical terms of artificial intelligence are introduced. Following this, the foundations of case-based reasoning are presented. At the end, Case Retrieval Net - an efficient memory structure for implementation case-based reasoning systems, is described.