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Multiagent information technologies in system analysis

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Agent technologies currently play an increasingly important role in the information technology industry given its ability to learn and evolve, to solve information management problems, to employ data visualization and many other benefits. As a computer program, an agent deals with a challenge Internet users face every single day: to obtain reliable and effective data in the specific thematic field. Multiagent system consists of two or more autonomous agents and is aimed at solving complex problems, such as Big Data, Data mining, primary structured and unstructured information processing (including text, numbers and multimedia types of data). The paper deals with issues of multiagent technologies intended use by means of nuclear engineering example. More specifically, the creation of specialized agent programs operating in the interests of the user to collect data from information resources at existing nuclear plants, and processing agents that highlight key information for users.

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