

The application of data mining methods for the process of diagnosing diseases(Article)

Belginova, S.a, Uvaliyeva, I.a, Rustamov, S.b

aD.Serikbayev East Kazakhstan State Technical University, Ust-Kamenogorsk, Kazakhstan

bADA University, Institute of Control Systems, Baku, Azerbaijan

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Today, the medical field has a large amount of medical information that requires proper processing and further use in the diagnosis and treatment of various diseases. The development of computer technology provides tremendous opportunities for collecting, processing, managing and researching medical information to better understand the complex biological processes of life and help solve the problem of diagnosis and treatment in medical institutions. Accurate diagnosis and proper treatment provided to patients is one of the main tasks of medical care. Therefore, data mining techniques, which are part of knowledge discovery in databases, are becoming popular tools for medical researchers. The use of these tools makes it possible to identify and use patterns and relationships between numerous variables and to predict specific disease and treatment outcomes. This paper describes the application of data mining methods for the process of diagnosing diseases. To improve the effectiveness of the methods of data mining for the process of diagnosing diseases, a procedure for assessing the informativeness of heterogeneous diagnostic indicators on the basis of a theoretical information approach has been proposed. The results of diagnosing are described on the basis of revealing the relationship between the supply of magnesium and the risk of somatic diseases with the use of intelligent data analysis. © 2005 – ongoing JATIT & LLS.