

Industrial applications of knowledge-based diagnosis

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 Novelty
 Expert systems (Computer science)
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Hybrid Intelligent Diagnosis Approach Based On Neural Pattern Recognition and Fuzzy Decision

Regarding the inference engine, any off-the-shelf DL reasoner can be used to process OWL axioms. In fact, the double classification, suggested in a hybrid intelligent diagnosis approach, is exploited in Primary Fuzzy System PFS to ensure a satisfactory reliability. Since rules expressed as OWL axioms are limited by the SROIQ constraints, Semantic Web Rule Language SWRL has been considered to formulate the KB rules.

Industrial Applications of Artificial Intelligence

Abstract The use of knowledge-based systems to aid in the diagnosis of faults in physical devices has grown considerably since their introduction during the 1970s. These systems bring the benefits of knowledge and intelligence to the solution of complex problems. The resulting set of mathematical equations is translated to an appropriate computer language for use internally in the ICAS-MoT or exported to another tool.

Technical applications of knowledge

Rafiqul Gani, in , 2013 2. Using its internal qualitative process engine, during the diagnosis of a chemical plant the system derives new qualitative models of the plant in terms of phenomena, such as heat transfer, chemical reaction, fluid flow, etc. If MI can be detected early, the death rate will reduce.

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The proposed IDS is experimentally tested and validated using a secure test bed. This is a reverse of the relationship between knowledge intensity associated with nodes located along that flow.

Knowledge Based Systems

Eventually, the research gaps and issues of various big data classification schemes are presented. Outcomes on the whole recommend that assessment of runoff is suitable to BPNN as contrasted to CFBPNN and FFBPNN. Most KBSs are rule based.

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