

An Application of Case-Based Reasoning System for Material Delivery Forecast

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ABSTRACT

Today's consumer products are ever-changing. Every company all wants to introduce new products earlier than its competitors in order to obtain a head start and make more benefit. For this reason, the development time of new products is becoming shorter and it needs to be made sure there are no mistakes in every stage. In the early stages of development, the research and development department has to fabricate the prototype to confirm whether the design meets product specification and there are any missing details or any place for improvement. In addition, it is necessary to confirm whether reliability and process requirements are met. Therefore, the delivery date of ordered materials for prototype construction directly affects the length of development time of new products.

In this study, we apply the Case-Based Reasoning technique to build a material delivery forecast system so that the Product Manager can verify the delivery date of supplier are reasonable or not. It is able to avoid manpower and time waste caused by material shortages, and development delay due to late delivery of suppliers.

Keyword: Case-Based Reasoning 、 Material Delivery 、 Forecast