

Knowledge Discovery from Production Databases for Hierarchical Process Control

Authors : Pavol Tanuska, Pavel Vazan, Michal Kebisek, Dominika Jurovata

Abstract : The paper gives the results of the project that was oriented on the usage of knowledge discoveries from production systems for needs of the hierarchical process control. One of the main project goals was the proposal of knowledge discovery model for process control. Specifics data mining methods and techniques was used for defined problems of the process control. The gained knowledge was used on the real production system, thus, the proposed solution has been verified. The paper documents how it is possible to apply new discovery knowledge to be used in the real hierarchical process control. There are specified the opportunities for application of the proposed knowledge discovery model for hierarchical process control.

Keywords : hierarchical process control, knowledge discovery from databases, neural network, process control

Conference Title : ICIIM 2014 : International Conference on Innovation and Information Management

Conference Location : Cape Town, South Africa

Conference Dates : November 20-21, 2014