

## **A New Internal Architecture Based On Feature Selection for Holonic Manufacturing System**

**Authors :** Jihan Abdulazeez Ahmed, Adnan Mohsin Abdulazeez Brifceni

**Abstract :** This paper suggests a new internal architecture of holon based on feature selection model using the combination of Bees Algorithm (BA) and Artificial Neural Network (ANN). BA is used to generate features while ANN is used as a classifier to evaluate the produced features. Proposed system is applied on the Wine data set, the statistical result proves that the proposed system is effective and has the ability to choose informative features with high accuracy.

**Keywords :** artificial neural network, bees algorithm, feature selection, Holon

**Conference Title :** ICAINN 2015 : International Conference on Artificial Intelligence and Neural Networks

**Conference Location :** Paris, France

**Conference Dates :** August 27-28, 2015