

Anomaly Detection in Time Series for Smart Agriculture

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Abstract

Enormous amounts of data from sensors and automatic systems is available to contemporary managers of farms and agricultural enterprises. Therefore, the automated monitoring of the basic processes is becoming more and more necessary. Manager of a modern agricultural company is responsible for his decisions but must have accurate and transparent support in the decision making process. The reports based on wide-scale of mathematical and statistical approaches integrated to information system can provide a suitable hierarchy of alerts concerning important indicators. This paper provides a brief overview of methods usable for anomaly detection in time series together with a basic (and open) possibilities of their implementation.

Keywords: Anomaly detection, time series, decomposition, artificial intelligence