

## عنوان مقاله:

A review of some of agricultural machinery management methods

## محل انتشار:

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## خلاصه مقاله:

Each enterprise considering its structure, requires different types of management to achieve the goals. Management of farmlands mechanized agricultural systems is one of the important factors to succeed farmers. A profitable and modern agriculture is one of the main conditions for having a competitive economy. That is why, the management of agricultural farms, no matter what their size, is very important in achieving this goal. A correct selection of the machinery is vital for correct functioning of a farm. It is significant in sustainable farming where, except for economic factors, application of a suitable technique and technology in order to lead an effective production is crucial. . These methods were implemented in the computer application. Selection of suitable and optimized machinery enables a sustainable agricultural production and achievement of the desired economic, production and environmental effects. The introduction of intelligent machines and autonomous vehicles to agricultural operations will allow for increased efficiency as well as for reduced environmental impact. Currently, innovative sensing and actuating technologies together with improved information and communication technologies provide the potential for such advancements. However, the full exploitation of these engineering advances requires the traditional agricultural machinery management process to be revisited. As a result, traditional agricultural operations planning methods, especially the job-shop planning methodology, must be supplemented with new planning features, such as route planning and sequential task scheduling. The objectives of this review are to outline current and required advances in agricultural machinery management to prepare for future intelligent manned and/or autonomous sustainable operations in agriculture.

## کلمات کلیدی:

Agricultural machinery, machinery management, sustainable agriculture, machine performance, Performance evaluation

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