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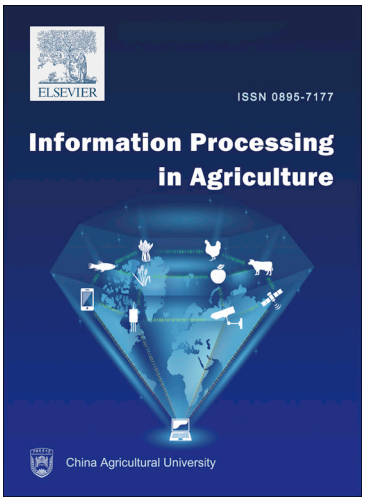

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Impacts of the Precision Agricultural Technologies in Iran: An analysis Experts' perception & their determinants

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Abstract

Nowadays agricultural methods developments that are productively, economically, environmentally and socially sustainable are required immediately.The concept of precision agriculture is becoming an attractive idea for managing natural resources and realizing modern sustainable agricultural development. The purpose of this study was to investigate factors influencing impacts of precision agriculture from the viewpoints of Boushehr Province experts. The research method was a cross sectional survey and multi-stage random sampling was used to collect data from 115 experts in Boushehr province. According to the results, experts found underground and surface waters conservation, rural areas development, increase of productivity and increasing income as the most important impacts of precision agricultural technologies. Experts' attitudes indicate their positive view toward these kinds of impacts. Also behavioral attitude has the most effect on impacts.

Keywords: Sustainable agriculture, Precision agriculture, Impact assessment, Boushehr, Iran.

1. Introduction

In recent years, agriculture has turned into an industry in response to food provision and food security and human relation with environment has been changed due to achievement in different technologies [16]. In this respect, agricultural systems emphasize on utilizing inputs that are produced by fossil fuels such as chemical fertilizers, pesticides, herbicides, and agricultural machinery with high fuel consumption. Although applying such technologies has increased yield and

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