

## عنوان مقاله:

Impact of Internet of Things Governance on Productivity in Agriculture Sector with AI-aided Agriculture Knowledge Managers

## محل انتشار:

فصلنامه مطالعات پردازش دانش، دوره 1، شماره 1 (سال: 1400)

تعداد صفحات اصل مقاله: 21

## نویسندگان:

Mila Malekolkalami - *Knowledge and Information Science Dept., Faculty of Management and Economics, Tarbiat Modares University, Tehran, Iran*

Mohammad Hassanzadeh - *Knowledge and Information Science Dept., Faculty of Management and Economics, Tarbiat Modares University, Tehran, Iran*

## خلاصه مقاله:

The use of IoT in intelligent agriculture is now very common among farmers, and with the use of drones and sensors, advanced agriculture is rapidly becoming a growing global standard. The use of IoT requires infrastructure that is defined within an IoT governance framework. This paper proposes new approaches to knowledge management, Artificial Intelligence, and IoT governance and their impact on productivity in the agriculture sector by hiring specialized people who are called AI-aided Agriculture Knowledge Managers. Given the importance of all three topics, knowledge management, IoT, and agriculture, we have tried to show the impact of the presence of AI-aided Agriculture Knowledge Managers and IoT in reducing water consumption as one of the most important requirements of agriculture in a simulation by Matlab Software. The data was obtained from the Eurostat database. We also provide a framework for the presence of AI-aided Agriculture Knowledge Managers in fields that are specialized in agricultural science and knowledge management. Finally, due to the importance of governance in this sector, a framework for the governance of artificial intelligence in the field of agriculture with the presence of knowledge managers has been proposed.

## کلمات کلیدی:

Internet of Things, Agriculture, Knowledge Management, IoT governance, AI-aided Agriculture Knowledge Managers

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1697261>

