Abstract

The Food and Agricultural Organization of the UN (FAO) predicts that the global population will reach 8 billion and 9.6 billion by 2025 and 2050 respectively. In order to meet the increasing demand for food, production must inevitably increase by 70 percent by 2050. According to a recent report by the UN’s Intergovernmental panel on Climate change (IPCC), there will be a number of climate changes that are likely to affect the agriculture and food sectors. In the present work, an attempt has been made to propose a framework for farming which involves a wide range of technologies that include natural farming methods, online services on current marketing, GPS Services, Wireless Sensor Networks (WSN), Internet of Things (IoT) and big data, thereby the technologies will yield optimum profits. Information and Communication Technologies (ICT)-based decision support system, backed up by real-time data, can additionally provide information concerning all aspects of farming at a level of granularity that was not previously achieved. At the end of the day, this framework enables to go for better decisions, by reducing the use of resources and yield of waste through maximum efficiency and thereby maximum profits attained in agro-based operations.
References

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Index Terms

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Keywords