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«Data analysis and digitalisation in the agricultural industry»

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The growing population give birth to many serious problems in the whole world but, the major one is the increase in hunger and unavailability of food. Due to the reduction in natural sources, limited arable land, unpredictable weather conditions crops growth is at risk today.
The IoT allows agriculture to become data-driven, leads to more timely and cost-effective production and management, and limiting uncertainties and inefficiencies of environmental impact. Current issues like the latest technologies, smartphones, intelligent management of WSN, middleware platforms etc. protrude because they have the power to transform arable farming into smart arable farming. For implementation, various challenges are encountered and interoperability is major hurdle throughout the architecture of the IoT system, which can be discussed by shared standards and protocols. Challenges like affordability, device power consumption, network latency etc. can be reviewed and solutions of these challenges are suggested.
A writing audit of current and predictable IoT innovations furthermore, frameworks in arable cultivating was completed. This has incorporated a diagram of the cutting edge of IoT advances, a framework of the current and likely applications, and an exhaustive depiction of the difficulties and arrangements. IoT technologies and different systems are discussed in this report. Data analysis and challenges and their solutions are also discussed and importance of IoT in agriculture is described and future actions are also described in detail. In future solutions of these problems, FMIS, big data analysis and DSS are kept in mind for enhancing systems.
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