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Abstract:

MACHINE LEARNING-BASED APPROACHES FOR SMART PADDY YIELD PREDICTION AND OPTIMISATION A method for the development of a type of fertilizing method o double cropping paddy rice efficiency utilization nitrogenous fertilizer, passed through the present invention's technical solution, rational nitrogen fertilizing can be ca morning, late rice, nitrogenous fertilizer can not only be made to obtain effective and reasonable utilization, reduce the waste of nitrogenous fertilizer, save productic greatly reduce because the environmental pollution caused by nitrification Based on a critical review of existing related studies, a future architecture of machine learr palm oil yield prediction has been developed. This technology will deliver on its promise by addressing new research issues in crop yield prediction analysis and devel incredibly effective model for predicting palm oil yields with the least amount of computational difficulty. The growing amount and variety of data gathered and obtai emerging IoT technologies provide the rice smart farming approach with new capabilities for predicting changes and identifying possibilities. FIG.1

Complete Specification

Description:MACHINE LEARNING-BASED APPROACHES FOR SMART PADDY YIELD PREDICTION AND OPTIMISATION

Technical Field
[0001]   The embodiments herein generally relate to a machine learning-based approaches for smart paddy yield prediction and optimization.
Description of the Related Art
[0002]   Paddy rice is the cereal crop that is widely distributed in south China, and Hunan is China's key producing location for double cropping rice. Dongting Lake the main producing region of double cropping rice in Hunan Province, and the production base that is Hunan Province is also the main Chinese commodity grain. A to estimates, the national irrigation water utilization factor is only 0.5 or so, 1m3.The amount of fresh water production is less than 1kg, and the globe is at an advar stage. Every cubic meter of irrigation water used by a family can produce more than 2kg of grain. Basically, agricultural output is determined by a variety of element as landscapes, soil quality, pest infestations, genotype, water quality and accessibility, climatic conditions, harvest planning, and so on. Crop yield processes and me are time-dependent and essentially nonlinear. To overcome this, farmers require precise and prudent forecasting of water requirements for specific crop growth, re soil quality, fertilizer quality and usage, seed quality, and pesticide use. Precision agriculture is a technologically assisted farming management strategy that monito measures, and analyses the demands of particular fields and crops. Smart farming is the use of information and data technology to optimize complicated farming processes. Data availability and quality issues are common in agricultural information systems. This becomes significantly more challenging as more data is collecte time

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