



# AIUB DSpace Publication Details

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## Abstract:

Bangladesh is an agricultural based country. With rapid population growth and increasing food demand, boosting farm productivity and yield is essential. To overcome this challenge, this paper proposes an automated control system of a farm using a cloud based IoT solution to monitor and control multiple areas of the farm which play crucial role in the entire farming process. The system uses a network of several NodeMCUs (ESP8266) micro-controllers to monitor and control multiple systems over the cloud. The NodeMCUs constantly monitor the respective states of various elements of the farm and report the data to the central control unit. The user can then take appropriate actions from analyzing this data, i.e. assign their desired tasks to each of the micro-controllers separately.