|  |  |  |  |
| --- | --- | --- | --- |
| **Title:** | An IoT Based Smart Irrigation System | | |
| **Author(s) Name:** | Md. Rezwan Hossain Naeem, Shadman Gawhar, Md. Belawal Hoque Adib, Sanjid Ahmed Sakib, Abir Ahmed and Nafiz Ahmed Chisty | | |
| **Contact Email(s):** | abir.ahmed@aiub.edu | | |
| **Published Journal Name:** | 2nd International Conference on Robotics,Electrical and Signal Processing Techniques (ICREST'21) | | |
| **Type of Publication:** | Conference | | |
| **Volume:** |  | Issue |  |
| **Publisher:** | IEEE | | |
| **Publication Date:** | Jan 5, 2021 | | |
| **ISBN:** | 978-1-6654-1577-4 | | |
| **DOI:** | 10.1109/ICREST51555.2021.9331092 | | |
| **URL:** | https://ieeexplore.ieee.org/abstract/document/9331092 | | |
| **Other Related Info.:** |  | | |
|  | | | |

|  |  |
| --- | --- |
| **Abstract:** |  |
| This paper aims to deliver a smart and costeffective irrigation system. The main objective of this paper is to integrate a real-time monitoring system, remote controlling and cloud computation of acquired data. The system operates on  some designated parameter ratings. Depending on the parameter values, the system executes actions such as switching the motor on and off. Adding to that, this paper also offers a user-friendly experience with the help of the mobile application  which enables the users to operate the system. A website has also been developed for the user which contains various news and parameters related to agriculture in Bangladesh. Along with that it contains a manual guide of threshold parameter values for various crops. This will also help the user to figure out if their surroundings are suitable enough for their desired agricultural system | |