ABSTRACT

Nowadays irrigation is one of the most important issues affecting the agricultural sector, since this sector suffers from random and traditional behavior by farmers, which often return to the use of traditional tools to carry out this process. There are many studies that contributed to solving this problem by the use of modern technologies such as Internet of Things, which depends on the measurement of the most important factors which are related to irrigation process such as temperature and soil moisture before the implementation of irrigation. The focus of this study to find an optimal solution to the irrigation process by the adoption of other factors besides the factor of temperature and soil moisture, The proportion of light and measure cracking of soil around the roots of plants.in additions to the use of the Internet of Things and Internet Multimedia Things in the process of bringing the data wirelessly to the base station.