

Fog Collectors Systems with IoT Sensors in the Andes and Coastal Regions of Ecuador Southamerica and Data Processing

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Abstract

Worldwide, one in three people do not have access to safe drinking water, and two out of five people do not have a basic facility for washing hands with soap and water, according to goal 6 Sustainable Development of United Nations, clean water and sanitation. Due to different meteorological factors that are happening today altering the water cycle and therefore making its regeneration more difficult. The use of fog and obtaining atmospheric water becomes crucial for low-income communities where their supply is limited for their needs. The objectives of this work were to describe the seven fog collector systems that have been installed in various areas of Ecuador, as well as the implementation of IoT sensors to measure some climatic variables in conjunction with the capacity to capture water from the fog, finally, make correlation and covariance matrices of the data generated by the sensors. The fog collector system that worked best was that of Galte Laima with an average water intake of 1.91

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