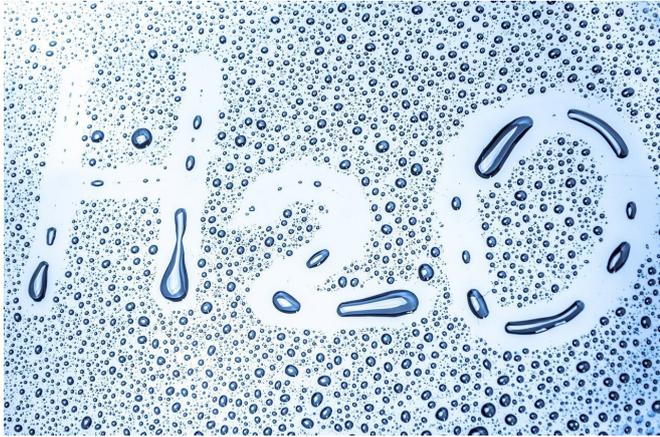


# Water watchdog: Using the Internet of Things for water security

20 November 2019, by David Bradley



Credit: CC0 Public Domain

planned water management as well as allowing sources to be assigned to particular outlets depending on demand without compromising the quality of supply for any users. The team also points out that implemented across the globe such an approach would allow monitoring of ponds, lakes, and rivers, as well as water utility facilities and so, might allow us to manage waterways and water sources better for wildlife and ecosystems.

**More information:** R. Jothikumar et al. Watch dog system for water management, *International Journal of Environment and Waste Management* (2019). [DOI: 10.1504/IJEW.2019.103644](https://doi.org/10.1504/IJEW.2019.103644)

Provided by Inderscience

A cluster of internet-enabled devices, including a water-flow sensor, pH sensor, ultrasonic sensor and "PIC" microcontroller, can be used together as a watchdog system for water quality, thanks to work by a team in India who describe details of the system in the *International Journal of Environment and Waste Management*.

R. Jothikumar of Shadan College of Engineering and Technology, in Hyderabad, G. SivaShanmugam of VIT in Tamil Nadu, and S. Susi Department of Shadan Women's College of Engineering and Technology, also in Hyderabad, explain the growing pressures on water with rising global population, climate change, and increasing pollution. They point out that an Internet of Things (IoT) approach to [water quality](#) control could be the answer to many of the problems we face concerning drinking-water supply and ensuring people have security of this vital resource.

The simple and low-cost system being developed by the team makes water quality assessment and [water security](#) widely available without the need for sophisticated technical knowledge. It can facilitate

APA citation: Water watchdog: Using the Internet of Things for water security (2019, November 20)  
retrieved 4 December 2021 from <https://phys.org/news/2019-11-watchdog-internet.html>

*This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.*