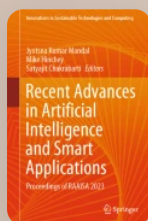


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IoT-Enabled Machine Learning-Integrated Water Testing System for Ensuring Safety of Life

| Conference paper | First Online: 22 September 2024

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(RAAISA 2023)

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Abstract

Everyone has an inherent right to access clean water. Throughout the world, there is an inadequate clean water supply shortage. The majority of people consume dirty, contaminated water that is laden with harmful waste because they are unaware of the state of the water in their local area, which causes them to get sick from various diseases. In our study, we have tried to examine the water quality in relation to many factors, such as PH, temperature, TDS, and turbidity. The user must supply the water, and our hardware will identify whether the water is safe for drinking or not based on an ideal range of clean water. Our hardware will show the result to the user after the hardware is immersed in the water and our machine learning algorithm will assist in forecasting if the water is safe or harmful to consume.

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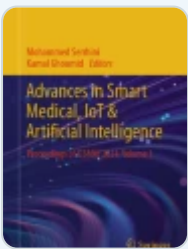
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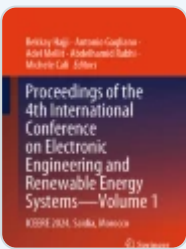
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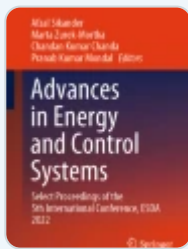
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