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<th>Authors:</th>
<th>T.H. Feiroz Khan, Riyaz Ahmed, Vaibhav Kanna, Ashwin Kumar Thachat</th>
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<tr>
<td>Paper Title:</td>
<td>Hydroponics System using IoT</td>
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<td>Abstract:</td>
<td>Hydroponics is the method of cultivating plants without soil. Water with oxygen and required minerals acts as the cultivation medium. Hydroponics improves the quality of crops and increases crop yield, but it requires skilled labor to monitor and control it. Hydroponics is a method of Controlled Environment Agriculture (CEA), which helps close monitoring of plants for a better and successful yield where the soil may not support its maximum yield. Smart hydroponics system allows automation in the field of hydroponics to monitor and regulate growth conditions for the plant. The proposed system aims at automating the Hydroponics setup using an ESP 8266 through IoT. One main advantage of using the ESP 8266 is the reduced cost of the overall build. Though Hydroponics is efficient when it comes to the usage of resources, it can prove to be expensive with each block of the plants requiring specified electronic equipment and hardware to monitor them. One of the main aim of this project will be to ensure cost effective build that can be affordable by farmers and cultivators in order to make sure they get maximum profit and reduced wastage of resources.</td>
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Abstract: Road traffic accident results in the death of over 1.2 million people, each year and 50 million more are injured. One of the main reasons for increase in traffic accidents is attributed to the low skid resistance of the highway surfaces which is a measure of the resistance of the pavement surface to sliding or skidding of the vehicle. Studying the effect that different asphalt concrete mixes have on skid resistance is very essential in order to provide the general public with safer roads and to help relevant authorities select best materials for pavement surfaces. The objective of the study is to compare the skid resistance of six different asphalt concrete mixes(i) asphalt concrete mix using local aggregate at the optimum Marshall asphalt content, ii) mixes with 0.5% and iii)1.0% asphalt contents higher than Marshall optimum asphalt content, iv) a mix designed using Superpave design procedure, v) a mix with steel slag to replace 30% of limestone aggregate, vi) and a mix with stone matrix aggregate gradation) and recommend the best mix that will provide higher skid resistance. The Skid resistance of the asphalt concrete mixes were determined in terms of their Skid resistance number using a modified British Pendulum skid resistance tester. The mixture with high skid number was the mixture with 30% slag followed by superpave. Increasing bitumen content for Marshall mix by 1% has the least skid number with about 12.8% decrease in skid resistance compared to the optimum binder content. Addition of steel slag in asphalt concrete mixes and using SMA mixes can be implemented to improve skidresistance of road surfaces, especially at highway intersections.

Keywords: Skid Resistance; British Pendulum; Skid Number; Superpave; Stone Matrix Aggregate; Slag; Micro Texture.

References:

Abstract: The Survey is based on the Medical Image Processing in various Healthcare Industries to overcome the risk of diseases. Some of the healthcare applications are Early Diagnostics, Patient Health Record, Lung Cancer, Alzheimer’s disease, Parkinson’s disease, Fish Disease, Retinal Disease, and Brain Tumor. The impact of medical image processing plays a vital role in healthcare industry for the diagnosis of disease. It will be helpful for the doctor to effectively analyse disease in a short span of time. Medical Image processing is the technique and process of creating visual representations of the interior of a body for clinical analysis and medical intervention, as well as visual representation of the function of some organs or tissues. In this research paper, Analysis of various healthcare applications was discussed.

Keywords: Early Diagnostic, Lung Cancer, Alzheimer’s Disease, Parkinson’s Disease, Fish Disease, Retinal Disease, Brain Tumor.

References: