

Unveiling the Quality of MSand using Artificial Intelligence

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Abstract:

Easy access to portable cameras, as in the case of mobile phones, has made it possible to acquire images and process them for different applications. This motivates us to provide a system and method to detect the quality of M-Sand using Internet of Things and Artificial Intelligence integrated Mobile applications. This paper describes a system encompassing a remote application server configured to analyze the images to identify the quality of M-Sand and envisages to provide easy detection and classification of M-Sand as well as quality approximation at ease without visiting the site. The proposed model also makes it possible to find quality of M-Sand by comparing different images obtained in the site since it has different contaminants. This research is also imperative for differentiating the sand from other variabilities of M-Sand and using the process, M- Sand can be differentiated from other types of sand, M-Sand, clay or river sand. The quality of the M-Sand can be detected and ensured using this approach and promotes the construction industry to use quality M-Sand and produces better quality concrete.

Keywords:

Manufactured M-Sand, Artificial Intelligence, Clay, Process, Quality.