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(57) Abstract :

An efficient device and a methodology to identify the quality of construction materials is an important invention that supports the civil engineers to complete their projects on time with quality materials. The invention is based on image processing and data mining aspects that will implement the methodology and system by using plurality of sensors. The system also encloses Bluetooth device that will communicate the information regarding the quality of the construction materials to the engineer. The invention aims at identifying the quality of sand, cement and concrete mixture separately. It is important to check the ratio of sand, cement and water that is mixed up to form the concrete composition. The strength mainly depends on the composition of concrete mixer. Thus the invention is a revolutionary device in the field of construction technology.

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