

पेटेंट कार्यालय
शासकीय जर्नल

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पेटेंट कार्यालय का एक प्रकाशन
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(54) Title of the invention : SYSTEM AND METHOD FOR CAPTURING GROUNDWATER POTENTIAL-ZONE INTEGRATING ARTIFICIAL NEURAL NETWORK AND GROUNDWATER INFLUENCING FACTORS

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(57) Abstract :

The present invention generally relates to a system to capture groundwater potential zone comprises a sensing node for collecting remote sensing data; a feature extraction unit for extracting a set of factors affecting remote sensing data; a pre-processing unit for assigning a rank to a set of factors by assessing each part-based mostly on the pairwise comparison; a training unit for training an artificial neural network based on each factors and the assigned rank, wherein the artificial neural network comprises an activation function to define how the weighted sum of the input is transformed into an output from one or more sensing nodes in a network layer; and a control unit for validating the result of AHP based groundwater potential zone for generating a final map of ground water zone upon comparing a pre-stored data.

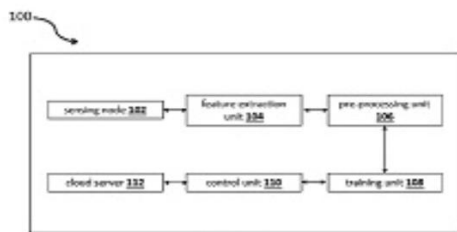


Figure 1

No. of Pages : 30 No. of Claims : 10

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पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : DEVELOPMENT OF ECO-FRIENDLY SELF-CURING CONCRETE FOR A FUTURISTIC TECHNOLOGY

(51) International classification :C04B0040000000, B28B0011240000, C04B0028020000, B32B0005020000, C04B0018140000

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(57) Abstract :
 ABSTRACT OF THE INVENTION DEVELOPMENT OF ECO-FRIENDLY SELF-CURING CONCRETE FOR A FUTURISTIC TECHNOLOGY The present invention relates to eco-friendly self-curing concrete. The strength and durability of concrete depends on the curing of concrete. Self-curing concrete absorbs water from atmosphere to achieve better hydration of cement in concrete. In the present invention a method for preparing eco-friendly self-curing concrete wherein the concrete containing PEG-400 as a self-curing agent is disclosed. The PEG-400 for M20, M30 and M40 concrete is about 1% to 0.5%. The Compressive strength of concrete with an optimum dosage of PEG-400 gives higher compressive strength as compared to conventionally cured concrete. The concrete containing PEG-400 increases the workability of concrete and also the flow rate of the concrete. Figure of abstract: FIG. 1

No. of Pages : 18 No. of Claims : 5