

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application : 21/07/2022

(21) Application No. 202241041831 A

(43) Publication Date : 19/08/2022

(54) Title of the invention : PREDICTION OF COMPRESSIVE STRENGTH OF BACTERIAL CONCRETE USING ARTIFICIAL INTELLIGENCE (AI) TECHNIQUES

(51) International classification : G06N002000000, G16H0050200000, G16H0050500000,
G10L0021020800, G06N0003000000
(86) International Application No : PCT/
Filing Date : 01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number : NA
Filing Date : NA
(62) Divisional to Application Number : NA
Filing Date : NA

(71) Name of Applicant :
1) Mr. Hemant Kumar Yerrabolu
Address of Applicant : Assistant Professor, Department of Civil Engineering, Dadi Institute of Engineering and Technology, NH-16, Anakapalle, Anakapalle District-531002, Andhra Pradesh, Anakapalle
2) Om. Prakash Singh
3) Mrs. S. Solai Mathi
4) Prof. Saurav Kar
5) Mr. G. Jegadeesh
6) Vishal Akula
7) Dr. Teegala Siva Sankar Reddy
8) Kadali Srinivasa Rao
9) Dr. T.V.S. Vara Lakshmi
Name of Applicant : NA
Address of Applicant : NA
(72) Name of Inventor :
1) Mr. Hemant Kumar Yerrabolu
Address of Applicant : Assistant Professor, Department of Civil Engineering, Dadi Institute of Engineering and Technology, NH-16, Anakapalle, Anakapalle District-531002, Andhra Pradesh, Anakapalle
2) Om. Prakash Singh
Address of Applicant : Assistant Professor, Jaipur National University, Jaipur - Agrn Bypass, Near New RTO office, Jagatpura, Jaipur, Rajasthan - 302017 Jaipur
3) Mrs. S. Solai Mathi
Address of Applicant : Assistant Professor, Department of Civil Engineering, Karpagam Academy of Higher Education, Coimbatore, Tamil Nadu, Coimbatore
4) Prof. Saurav Kar
Address of Applicant : Assistant Professor, Department of Civil Engineering, Heritage Institute of Technology, Kolkata - 700107, West Bengal Kolkata
5) Mr. G. Jegadeesh
Address of Applicant : Centre for Rural Technology, The Gandhigram Rural Institute Deemed to be University, Gandhigram, Dindigul, Tamil Nadu - 624 302, Dindigul
6) Vishal Akula
Address of Applicant : Assistant Professor, Civil Engineering Department Nalla Malha Reddy Engineering college, 7-01, Divya Nagar, Kachivani Singaram, Ghatkesar, Hyderabad, Telangana- 500 088, Hyderabad
7) Dr. Teegala Siva Sankar Reddy
Address of Applicant : Professor, Civil Engineering Department Lords Institute of Engineering & Technology Hyderabad, Telangana Hyderabad
8) Kadali Srinivasa Rao
Address of Applicant : Assistant Professor, Department of Civil Engineering Komurri Pratap Reddy Institute of Technology, Ghanpur, Ghatkesar (M), Hyderabad, Telangana, Hyderabad
9) Dr. T.V.S. Vara Lakshmi
Address of Applicant : Assistant Professor, Department of Civil Engineering, Dr. Y.S.R.A.N.U. College of Engineering & Technology, Acharya Nagarjuna University, Nagarjuna Nagar, Guntur Dist, Andhra Pradesh 522510, India Guntur

(57) Abstract :
PREDICTION OF COMPRESSIVE STRENGTH OF BACTERIAL CONCRETE USING ARTIFICIAL INTELLIGENCE (AI) TECHNIQUES The present invention relates to prediction of compressive strength of bacterial concrete using artificial intelligence (AI) techniques. The method includes developing MSP, RF, RT and REP based models and using WEKA software to predict the values of the compressive strength of bacterial concrete. According to one embodiment RF based model performs better than MSP, RT and REP based models. Figure of abstract: FIG.1

No. of Pages : 14 No. of Claims : 4