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Date :

Key Indicator – 3.2.2

RESEARCH PUBLICATION AND AWARD

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3.2.2 *Number of books and chapters in edited volumes/books published and paper published in national/international conference proceedings per teacher during the year*

3.2.2.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings during the year

1	Year	2023-2024
2	Number	2

Year	Name of workshops/seminars/conferences	Date
2023	Fundamentals of structural engineering	01.08.2023
2023	Patent-machine learning based approaches for soil analysis and suitability assessment in arid and semi - arid regions	01.09.2023

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Date

Book 1

- Title of Book: Fundamentals of structural engineering
- Name of Author : Dattatray Bhosale
- Department of Teacher: Bachelor of Architecture
- Name of Journal: Nil
- Year of Publication: August 2023
- ISBN/ISS Number: 978-81-19489-88-6

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The RK Publishing authority is hereby awarding this certificate to "**Prof. Dattatray Bhosale**" in recognition of the text book entitled "**Fundamentals of Structural Engineering**" published as first edition.

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Date :

Book 2

- Title of Book: Patent-machine learning based approaches for soil analysis and suitability assessment in arid and semi - arid regions
- Name of Author : Dattatray Bhosale
- Department of Teacher: Bachelor of Architecture
- Name of Journal: International
- Year of Publication: September 2023
- Application No.202341045985 A
- e Journal No. 35/2023

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(19) INDIA

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(21) Application No.202311049985 A

(43) Publication Date : 01/09/2023

(54) Title of the invention : MACHINE LEARNING BASED APPROACHES FOR SOIL ANALYSIS AND SUITABILITY ASSESSMENT IN ARID AND SEMI-ARID REGIONS

(57) Abstract :
MACHINE LEARNING BASED APPROACHES FOR SOIL ANALYSIS AND SUITABILITY ASSESSMENT IN ARID AND SEMI-ARID REGIONS A method of treating a soil sample is scanned using a visible near infrared diffuse reflectance (VisNIR) spectroradiometer, a soil sample is scanned using an x-ray fluorescence (PXRF) spectrometer, a diffuse reflectance spectrum is received from the VisNIR spectroradiometer, and an elemental data is received from the PXRF spectrometer. A system for analyzing soil conditions that includes a platform for supporting an extended soil core that was taken from the ground. The agricultural soil analyzer's first signal is set up to be received by the controller. Additionally, the controller is set up to use the first signal to calculate a target parameter for the agricultural system and to output a second signal that represents the target parameter. A technique and system for forecasting soil and or plant conditions in precision agriculture that assigns measurement plots to categories of interest using classification of measurement data. The covered cultivation method has the benefit of reducing soil moisture evaporation and increasing land temperature, increasing soil moisture, accelerating crop growth and development, and improving crop yields. Because the biodegradable mulching films have high air tightness. [0] [1]

No. of Pages : 18 No. of Claims : 1

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