
P4005

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Type of Project: New IEEE Standard

Project Request Type: Initiation / New

PAR Request Date: 08 Nov 2019

PAR Approval Date: 12 Feb 2020

PAR Expiration Date: 31 Dec 2024

PAR Status: Active

1.1 Project Number: P4005

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Project Title: Standard Protocol and Scheme for Measuring Soil Spectroscopy

3.1 Working Group: Standard Protocol and Scheme for Measuring Soil Spectroscopy (GRSS/SC/Protocol for Soil Spectroscopy)

3.1.1 Contact Information for Working Group Chair:

Name: Eyal Ben Dor

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3.1.2 Contact Information for Working Group Vice Chair:

None

3.2 Society and Committee: IEEE Geoscience and Remote Sensing Society/Standards Committee (GRSS/SC)

3.2.1 Contact Information for Standards Committee Chair:

Name: Siri Jodha Khalsa

Email Address: sirijodha.khalsa@ieee.org

3.2.2 Contact Information for Standards Committee Vice Chair:

Name: Kevin Romero

Email Address: romerok1@ca.rr.com

3.2.3 Contact Information for Standards Representative:

None

4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE SA for Initial Standards Committee Ballot:

Nov 2020

4.3 Projected Completion Date for Submittal to RevCom: May 2021

5.1 Approximate number of people expected to be actively involved in the development of this project: 25

5.2 Scope of proposed standard: This Standard defines protocols and schemes for sensors and measurement methods when merging, comparing and utilizing Soil Spectral Libraries (SSLs) from many sources, including LUCAS SSL, GEO-CRADEL SSL, BRAZILIAN SSL and GLOBAL SSL, as well as monitoring their measurement scheme before performing data manipulation or quantitative analyses. Using the standard SSLs is an important stage while utilizing Hyperspectral (HSI) data for monitoring and mapping soils.

5.3 Is the completion of this standard contingent upon the completion of another standard? No

5.4 Purpose: This document will not include a purpose clause.

5.5 Need for the Project: As many SSLs are being generated today worldwide and others are in preparation, merging them is highly important for their implementation into worldwide HSI data. Another important need for this project is to join the SSL databases into a large homogeneous database that will cover all soil types worldwide and can be used by anyone at any time. Additionally using this SSLs for HSI remote sensing data is needed the efficient scheme to combine field and laboratory spectral reflectance measurements.

5.6 Stakeholders for the Standard: Environmental, Governmental, Agricultural, Scientists, Private Sector

6.1 Intellectual Property

6.1.1 Is the Standards Committee aware of any copyright permissions needed for this project?

No

6.1.2 Is the Standards Committee aware of possible registration activity related to this project?

No

7.1 Are there other standards or projects with a similar scope? No

7.2 Is it the intent to develop this document jointly with another organization? No

8.1 Additional Explanatory Notes : 5.2: Land Use/Cover Area frame statistical Survey (LUCAS)
H2020 funded project "Coordinating and integRating state-of-the-art Earth Observation Activities in the regions of North Africa, Middle East, and Balkans and Developing Links with GEO related initiatives towards GEOSS" (GEO-CRADLE)

Brazilian Soil Spectral Library (BSSL)

Global Soil Spectral Library (GSSL)