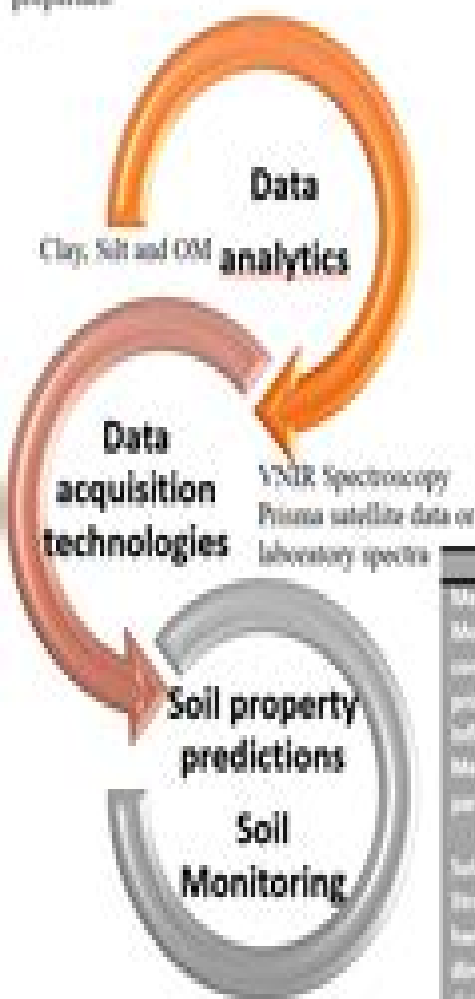


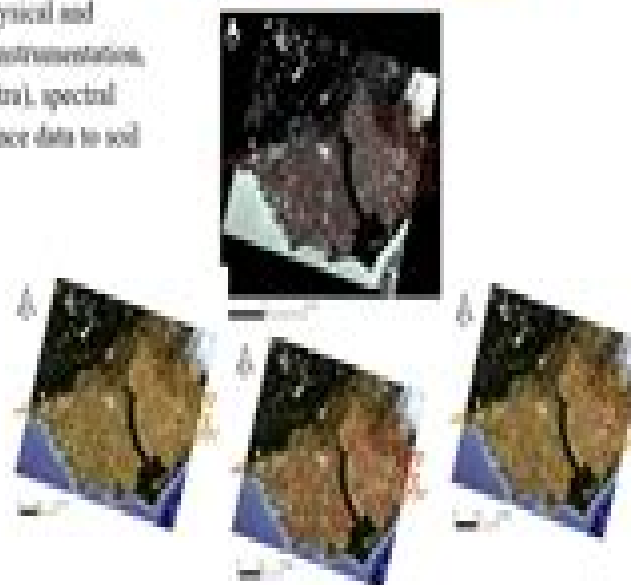
Evaluating the potentials of PLSR and SVR models for soil properties prediction using field imaging, laboratory VNIR spectroscopy and their combination

1. Methodology

Soil spectroscopy performance varies depending on the physical and chemical properties of the soil, but it also depends on the instrumentation, dataset used (remote sensed image spectra/laboratory spectra), spectral range, and data analysis methods used to correlate reflectance data to soil properties.

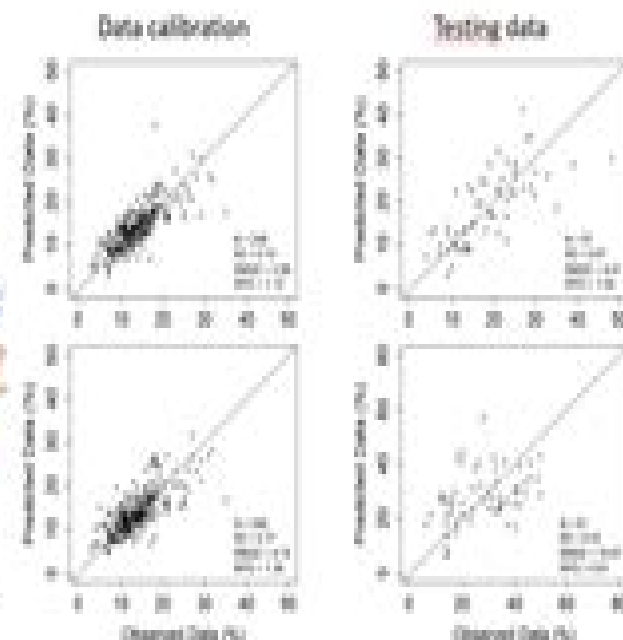


2. Materials and methods



Models' calibration based on Data combination method
PLSR and SVMR

	PLSR	SVR
Method	linear	nonlinear
Model	Selection of latent variables	Minimization of ϵ
complexity is primarily influenced by data-parameter	Latent variables number	kernel parameter, C and γ
Solution strategy for handling high dimensional data	unique compression of data by latent variables	unique input data presented as inner products



Soil property	Prediction Modeling and data	Calibration				Testing			
		Latent	R²	RMSE	MAE	Latent	R²	RMSE	MAE
Clay	PLSR-Combination C1 (35, 100)	23	0.74	3.89	1.17	23	0.85	4.36	1.47
	PLSR-Combination C2 (30, 80)	13	0.77	4.34	1.56	13	0.87	4.41	1.56
	PLSR-Combination C3 (50, 50)	9	0.75	3.71	1.29	9	0.58	4.23	1.51
	PLSR-Combination C4 (30, 20)	10	0.78	4.32	1.42	10	0.63	5.04	1.49
	PLSR-Combination C5 (100, 0)	14	0.68	3.83	1.25	14	0.56	4.79	1.40
	SVR-Combination C1 (35, 100)	211	0.77	5.59	1.24	211	0.67	8.29	1.46
	SVR-Combination C2 (30, 80)	219	0.78	6.49	1.27	219	0.61	7.54	1.47
	SVR-Combination C3 (50, 50)	222	0.78	6.32	1.49	222	0.64	8.87	1.57
	SVR-Combination C4 (30, 20)	214	0.77	6.55	1.31	214	0.60	7.53	1.36
	SVR-Combination C5 (100, 0)	217	0.73	5.74	1.48	217	0.58	8.81	1.29

Soil Properties Evaluation From Centrifugal Models And Field Performance

American Society of Civil Engineers

A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the American Society of Civil Engineers text.

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Soil Properties Evaluation from Centrifugal Models and Field Performance Frank C. Townsend, 1988 Proceedings of a session at the ASCE National Convention held in Nashville Tennessee May 10 1988 Sponsored by the Geotechnical Engineering Division of ASCE This Geotechnical Special Publication contains eight papers on the evaluation of soil property values The performance of geotechnical projects is dependent upon the appropriateness of the design theory to the boundary conditions and the characterization of the soil properties used in the theory These papers assess the reliance of soil property values as verified by field or centrifugal model observations The papers on centrifugal modeling examine slope stability assessment due to phreatic surface elevations and surcharge loadings on the slope crest Centrifugal modeling was also used to evaluate settlements and capacities of shallow footings and large deformation consolidation of waste clays Field performance papers discuss pile load test verification of designs based upon in situ tests In addition in situ tests were used to characterize seismic resistance while visual observations evaluated braced cut performance

Dynamic Geotechnical Testing II Ronald J. Ebelhar, 1994 *Cone Penetration Testing in Geotechnical Practice* T. Lunne, J.J.M. Powell, P.K. Robertson, 2002-09-11 This book provides guidance on the specification performance use and interpretation of the Electric Cone Penetration Test CPU and in particular the Cone Penetration Test with pore pressure measurement CPTU commonly referred to as the piezocone test

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Hazards on Civil Infrastructure and Communities Julio Alfonso Ramirez, Marcial Blondet, Carlos Estuardo Ventura, Katrin

Beyer, Tiziana Rossetto, Michael Keith Lindell, Franklin Lombardo, 2021-08-18 **Earthquake Geotechnical Engineering**

for Protection and Development of Environment and Constructions Francesco Silvestri, Nicola Moraci, 2019-10-22

Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions contains invited keynote and theme lectures and regular papers presented at the 7th International Conference on Earthquake Geotechnical Engineering Rome Italy 17-20 June 2019. The contributions deal with recent developments and advancements as well as case histories, field monitoring, experimental characterization, physical and analytical modelling and applications related to the variety of environmental phenomena induced by earthquakes in soils and their effects on engineered systems interacting with them. The book is divided into the sections below: Invited papers, Keynote papers, Theme lectures, Special Session on Large Scale Testing, Special Session on Liquefaction, Projects, Special Session on Lessons learned from recent earthquakes, Special Session on the Central Italy earthquake. Regular papers. Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions provides a significant up-to-date collection of recent experiences and developments and aims at engineers, geologists and seismologists, consultants, public and private contractors, local, national and international authorities and to all those involved in research and practice related to Earthquake Geotechnical Engineering.

Deformation Characteristics of Geomaterials V.A. Rinaldi, M.E. Zeballos, J.J. Clariá, 2015-12-11. In November 2015, Buenos Aires, Argentina, became the location of several important events for geo-professionals with the simultaneous holding of the 6th International Symposium on Deformation Characteristics of Geomaterials, the 15th Pan American Conference on Soil Mechanics and Geotechnical Engineering (XV PCSMGE), the 8th South American Congress on Rock Mechanics (SCRM) as well as the 22nd Argentinean Congress of Geotechnical Engineering (CAMSIGXXII). This synergy provided a unique opportunity to exchange ideas and discuss current and future practices in the areas of soil mechanics and rock mechanics and their applications in civil, energy, environmental and mining engineering. This book presents the proceedings of the 6th International Symposium on Deformation Characteristics of Geomaterials. As well as 118 articles selected for publication after peer review, it includes 7 lectures delivered by invited keynote speakers and the Third Bishop Lecture delivered by Professor Herve Di Benedetto of the University of Lyon, France, who presented a reference work on the advanced testing and modeling of bituminous, bounded and unbounded granular materials. The conference brought together practitioners, researchers and educators from around the world engaged in the understanding of the deformation properties of geo materials before failure and the small strain parameters as fundamental characteristics of geo materials. The main topics covered by the symposium include experimental investigations from very small strains to beyond failure, including multi

physical approach HTC M coupling behavior characterization and modeling of various geo materials and interfaces and practical prediction and interpretation of ground responses field observation and case histories **Hazardous and Industrial Wastes** ,2000 *In Situ Testing in Geomechanics* Fernando Schnaid,2008-12-15 This book outlines the practice and theory of the five key tests used in site characterisation by Geomechanical and Environmental Engineers These tests are Standard Penetration Tests Cone Penetration Tests Vane Test Pressuremeter Tests Dilatometer Tests This book is aimed at practising engineers although its practical angle will also appeal to Civil Engineering students in their 3rd and 4th years

Soil Properties Evaluation From Centrifugal Models And Field Performance Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Soil Properties Evaluation From Centrifugal Models And Field Performance**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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Table of Contents Soil Properties Evaluation From Centrifugal Models And Field Performance

1. Understanding the eBook Soil Properties Evaluation From Centrifugal Models And Field Performance
 - The Rise of Digital Reading Soil Properties Evaluation From Centrifugal Models And Field Performance
 - Advantages of eBooks Over Traditional Books
2. Identifying Soil Properties Evaluation From Centrifugal Models And Field Performance
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Soil Properties Evaluation From Centrifugal Models And Field Performance
 - User-Friendly Interface
4. Exploring eBook Recommendations from Soil Properties Evaluation From Centrifugal Models And Field Performance
 - Personalized Recommendations
 - Soil Properties Evaluation From Centrifugal Models And Field Performance User Reviews and Ratings

- Soil Properties Evaluation From Centrifugal Models And Field Performance and Bestseller Lists
- 5. Accessing Soil Properties Evaluation From Centrifugal Models And Field Performance Free and Paid eBooks
 - Soil Properties Evaluation From Centrifugal Models And Field Performance Public Domain eBooks
 - Soil Properties Evaluation From Centrifugal Models And Field Performance eBook Subscription Services
 - Soil Properties Evaluation From Centrifugal Models And Field Performance Budget-Friendly Options
- 6. Navigating Soil Properties Evaluation From Centrifugal Models And Field Performance eBook Formats
 - ePub, PDF, MOBI, and More
 - Soil Properties Evaluation From Centrifugal Models And Field Performance Compatibility with Devices
 - Soil Properties Evaluation From Centrifugal Models And Field Performance Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Soil Properties Evaluation From Centrifugal Models And Field Performance
 - Highlighting and Note-Taking Soil Properties Evaluation From Centrifugal Models And Field Performance
 - Interactive Elements Soil Properties Evaluation From Centrifugal Models And Field Performance
- 8. Staying Engaged with Soil Properties Evaluation From Centrifugal Models And Field Performance
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Soil Properties Evaluation From Centrifugal Models And Field Performance
- 9. Balancing eBooks and Physical Books Soil Properties Evaluation From Centrifugal Models And Field Performance
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Soil Properties Evaluation From Centrifugal Models And Field Performance
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Soil Properties Evaluation From Centrifugal Models And Field Performance
 - Setting Reading Goals Soil Properties Evaluation From Centrifugal Models And Field Performance
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Soil Properties Evaluation From Centrifugal Models And Field Performance
 - Fact-Checking eBook Content of Soil Properties Evaluation From Centrifugal Models And Field Performance

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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