

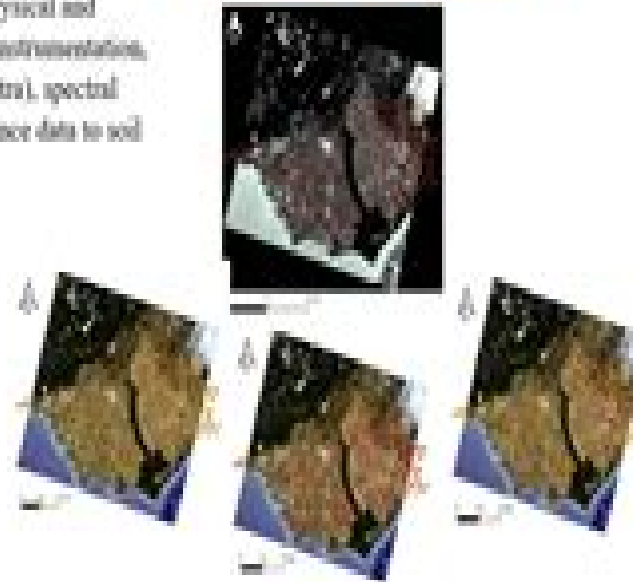
Evaluating the potentials of PLSR and SVR models for soil properties prediction using field imaging, laboratory VNIR spectroscopy and their combination

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.



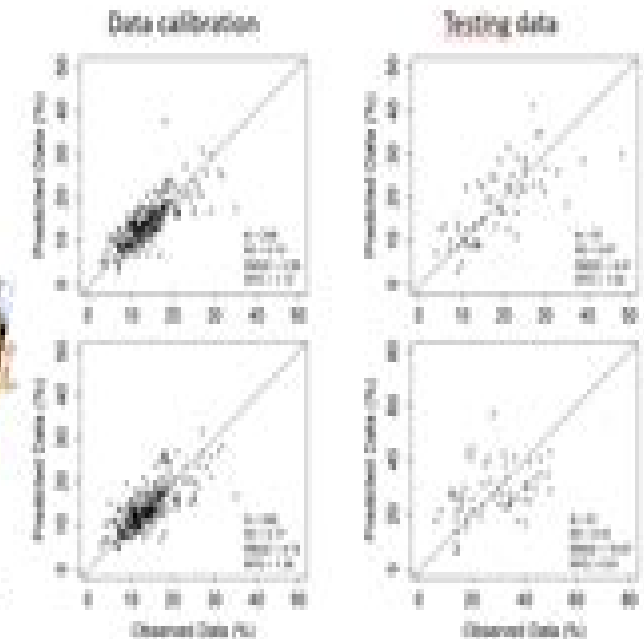
2. Materials and methods



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

3. Results



Soil property	Prediction Modeling and data	Calibration				Testing			
		1x/50x	R²	RMSE	MAE	1x/5x	R²	RMSE	MAE
Clay	PLSR-Combination C1 (35, 100)	23	0.74	3.89	1.13	23	0.85	4.36	1.42
	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	0.62	8.29	1.46
	SVR-Combination C2 (30, 80)	219	0.78	6.49	1.27	219	0.61	7.54	1.42
	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	7.52	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

Wayne A. Dunlap, C. William Ibbs



Soil Properties Evaluation From Centrifugal Models And Field Performance:

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 **Hazardous and Industrial Waste Proceedings, 32nd Mid-Atlantic Conference** James E. Kilduff, 2000-06-26 **Advances in Geotechnical Engineering** National Research Council (U.S.). Transportation Research Board, 1992 Cracking and Damage Z.P. Bazant, J. Mazars, 1989-05-30 Proceedings of the France US Workshop on Strain Localization and Size Effect due to Cracking and Damage Laboratoire de Mécanique et Technologie Cachan France 6 9 September 1988 *Transactions of the American Society of Civil Engineers* American Society of Civil Engineers, 2005 Vols 29 30 contain papers of the International Engineering Congress Chicago 1893 v 54 pts A F papers of the International Engineering Congress St Louis 1904 *Applied Mechanics Reviews*, 1986 ICPMG2014 - Physical Modelling in Geotechnics Christophe Gaudin, David White, 2019-01-08 The 8th International Conference on Physical Modelling in Geotechnics ICPMG2014 was organised by the Centre for Offshore Foundation Systems at the University of Western Australia under the auspices of the Technical Committee 104 for Physical Modelling in Geotechnics of the International Society of Soil Mechanics and Geotechnical Engineering This quadrennial conference is the traditional focal point for the physical modelling community of academics scientists and engineers to present and exchange the latest developments on a wide range of physical modelling aspects associated with geotechnical engineering These proceedings together with the seven previous proceedings dating from 1988 present an inestimable collection of the technical and scientific developments and breakthroughs established over the last 25 years These proceedings include 10 keynote lectures from scientific leaders within the physical modelling community and 160 peer reviewed papers from 26 countries They are organised in 14 themes

presenting the latest developments in physical modelling technology modelling techniques and sensors through a wide range of soil structure interaction problems including shallow and deep foundations offshore geotechnics dams and embankments excavations and retaining structures and slope stability Fundamental aspects of earthquake engineering geohazards ground reinforcements and improvements and soil properties and behaviour are also covered demonstrating the increasing complexity of modelling arising from state of the art technological developments and increased understanding of similitude principles A special theme on education presents the latest developments in the use of physical modelling techniques for instructing undergraduate and postgraduate students in geotechnical engineering

ASCE Combined Index American Society of Civil Engineers, 1989 Indexes materials appearing in the Society's Journals Transactions Manuals and reports Special publications and Civil engineering

Frontiers in Offshore Geotechnics II Susan Gourvenec, David White, 2010-10-04 Frontiers in Offshore Geotechnics II comprises the Proceedings of the Second International Symposium on Frontiers in Offshore Geotechnics ISFOG organised by the Centre for Offshore Foundation Systems COFS and held at the University of Western Australia UWA Perth from 8-10 November 2010 The volume addresses current and emerging challenges

Transportation Research Record, 1997

Probabilistic Methods in Geotechnical Engineering K.S. Li, S.-C.R. Lo, 2020-08-19 The proceedings of this conference contain keynote addresses on recent developments in geotechnical reliability and limit state design in geotechnics It also contains invited lectures on such topics as modelling of soil variability simulation of random fields and probability of rock joints Contents Keynote addresses on recent development on geotechnical reliability and limit state design in geotechnics and invited lectures on modelling of soil variability simulation of random field probabilistic of rock joints and probabilistic design of foundations and slopes Other papers on analytical techniques in geotechnical reliability modelling of soil properties and probabilistic analysis of slopes embankments and foundations

Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions Francesco Silvestri, Nicola Moraci, 2019-07-19 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 in 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 Canadian Geotechnical Journal ,2012 *Assessment and Requalification of Offshore Production Structures* Wayne A. Dunlap,C. William Ibbs,1993 **Frontiers in Geotechnical Engineering** Madhavi Latha G.,2019-02-11 This volume contains contributions by eminent researchers in the field of geotechnical engineering The chapters of this book are based on the keynote and theme lectures delivered at the Indian Geotechnical Conference 2018 and discuss the recent issues and challenges while providing perspective on the possible solutions and future directions A strong emphasis is placed on proving connections between academic research and field practice with many examples and case studies Topics covered in this volume include contemporary infrastructural challenges underground space utilization sustainable construction dealing with problematic soils and situations and geo environmental issues including landfills This book will be of interest to researchers practitioners and students alike **Physical Modelling in Geotechnics** P. Guo,R. Phillips,R. Popescu,2022-11-22 Papers cover topics including physical modelling facilities experimental advances seismic experimental advances education soil behaviour offshore systems cold regions geo environment dynamics earthquake effects and strategies for disaster reduction **Geotechnical Applications, Leak Detection, Treatment Options** ,1995 Physical Modelling in Geotechnics, Volume 2 Andrew McNamara,Sam Divall,Richard Goodey,Neil Taylor,Sarah Stallebrass,Jignasha Panchal,2018-07-11 Physical Modelling in Geotechnics collects more than 1500 pages of peer reviewed papers written by researchers from over 30 countries and presented at the 9th International Conference on Physical Modelling in Geotechnics 2018 City University of London UK 17 20 July 2018 The ICPMG series has grown such that two volumes of proceedings were required to publish all contributions The books represent a substantial body of work in four years Physical Modelling in Geotechnics contains 230 papers including eight keynote and themed lectures representing the state of the art in physical modelling research in aspects as diverse as fundamental modelling including sensors imaging modelling techniques and scaling onshore and offshore foundations dams and embankments retaining walls and deep excavations ground improvement and environmental engineering tunnels and geohazards including significant contributions in the area of seismic engineering ISSMGE TC104 have identified areas for special attention including education in physical modelling and the promotion of physical modelling to industry With this in mind there is a special themed paper on education focusing on both undergraduate and postgraduate teaching as well as practicing geotechnical engineers Physical modelling has entered a new era with the advent of exciting work on real time interfaces between physical and numerical modelling and the growth of facilities and expertise that enable development of so called megafuges of 1000gtonne capacity or more capable of modelling the largest and most complex of geotechnical challenges Physical Modelling in Geotechnics will be of interest to professionals engineers and academics interested or involved in geotechnics geotechnical engineering and related areas The 9th International Conference on Physical Modelling

in Geotechnics was organised by the Multi Scale Geotechnical Engineering Research Centre at City University of London under the auspices of Technical Committee 104 of the International Society for Soil Mechanics and Geotechnical Engineering ISSMGE City University of London are pleased to host the prestigious international conference for the first time having initiated and hosted the first regional conference Eurofuge ten years ago in 2008 Quadrennial regional conferences in both Europe and Asia are now well established events giving doctoral researchers in particular the opportunity to attend an international conference in this rapidly evolving specialist area This is volume 2 of a 2 volume set

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