

# PLS

**Lăcrămioara Radomir, Raluca Ciornea, Huiwen  
Wang, Yide Liu, Christian M. Ringle, Marko Sarstedt**

Partial Least Squares Structural Equation Modeling (PLS-SEM)  
Using R Joseph F. Hair Jr., G. Tomas M. Hult, Christian M.

Ringle, Marko Sarstedt, Nicholas P. Danks, Soumya Ray, 2021-11-03

Partial least squares structural equation modeling (PLS-SEM) has become a standard approach for analyzing complex inter-relationships between observed and latent variables. Researchers appreciate the many advantages of PLS-SEM such as the possibility to estimate very complex models and the method's flexibility in terms of data requirements and measurement specification. This practical open access guide provides a step-by-step treatment of the major choices in analyzing PLS path models using R, a free software environment for statistical computing, which runs on Windows, macOS, and UNIX computer platforms. Adopting the R software's SEMinR package, which brings a friendly syntax to creating and estimating structural equation models, each chapter offers a concise overview of relevant topics and metrics, followed by an in-depth description of a case study. Simple instructions give readers the "how-tos" of using SEMinR to obtain solutions and document their results. Rules of thumb in every chapter provide guidance on best practices in the application and interpretation of PLS-SEM.

**Introducing Preschool Language Scale** Irla Lee

Zimmerman, Roberta Evatt Pond, Violette G. Steiner, 2002-04-01

Mastering Partial Least Squares Structural Equation Modeling  
(Pls-Sem) with Smartpls in 38 Hours Ken Kwong-Kay

Wong, 2019-02-22 Partial least squares is a new approach in structural equation modeling that can pay dividends when theory is scarce, correct model specifications are uncertain, and predictive accuracy is paramount. Marketers can use PLS to build models that measure latent variables such as socioeconomic status, perceived quality, satisfaction, brand attitude, buying intention, and customer loyalty. When applied correctly, PLS can be a great alternative to existing covariance-based SEM

approaches. Dr. Ken Kwong-Kay Wong wrote this reference guide with graduate students and marketing practitioners in mind. Coupled with business examples and downloadable datasets for practice, the guide includes step-by-step guidelines for advanced PLS-SEM procedures in SmartPLS, including: CTA-PLS, FIMIX-PLS, GoF (SRMR, dULS, and dG), HCM, HTMT, IPMA, MICOM, PLS-MGA, PLS-POS, PLSc, and QEM. Filled with useful illustrations to facilitate understanding, you'll find this guide a go-to tool when conducting marketing research. "This book provides all the essentials in comprehending, assimilating, applying and explicitly presenting sophisticated structured models in the most simplistic manner for a plethora of Business and Non-Business disciplines." — Professor Siva Muthaly, Dean of Faculty of Business and Management at APU.

### **A Primer on Partial Least Squares Structural Equation Modeling (PLS-SEM)** Joseph F. Hair, Jr., G. Tomas M.

Hult, Christian M. Ringle, Marko Sarstedt, 2021-07-06 The third edition of A Primer on Partial Least Squares Structural Equation Modeling (PLS-SEM) guides readers through learning and mastering the techniques of this approach in clear language. Authors Joseph H. Hair, Jr., G. Tomas M. Hult, Christian Ringle, and Marko Sarstedt use their years of conducting and teaching research to communicate the fundamentals of PLS-SEM in straightforward language to explain the details of this method, with limited emphasis on equations and symbols. A running case study on corporate reputation follows the different steps in this technique so readers can better understand the research applications. Learning objectives, review and critical thinking questions, and key terms help readers cement their knowledge. This edition has been thoroughly updated, featuring the latest version of the popular software package SmartPLS 3. New topics have been added throughout the text, including a thoroughly revised and extended chapter on mediation, recent research on the foundations of PLS-SEM, detailed descriptions of research

summarizing the advantages as well as limitations of PLS-SEM, and extended coverage of advanced concepts and methods, such as out-of-sample versus in-sample prediction metrics, higher-order constructs, multigroup analysis, necessary condition analysis, and endogeneity.

*A Primer on Partial Least Squares Structural Equation Modeling (PLS-SEM)* Joseph F. Hair, Jr., G. Tomas M. Hult, Christian Ringle, Marko Sarstedt, 2013-04-03 Provides a concise yet very practical guide to understanding and using PLS structural equation modeling (PLS-SEM)

**New Perspectives in Partial Least Squares and Related Methods** Herve Abdi, Wynne W. Chin, Vincenzo Esposito Vinzi, Giorgio Russolillo, Laura Trinchera, 2013-10-17 New Perspectives in Partial Least Squares and Related Methods shares original, peer-reviewed research from presentations during the 2012 partial least squares methods meeting (PLS 2012). This was the 7th meeting in the series of PLS conferences and the first to take place in the USA. PLS is an abbreviation for Partial Least Squares and is also sometimes expanded as projection to latent structures. This is an approach for modeling relations between data matrices of different types of variables measured on the same set of objects. The twenty-two papers in this volume, which include three invited contributions from our keynote speakers, provide a comprehensive overview of the current state of the most advanced research related to PLS and related methods. Prominent scientists from around the world took part in PLS 2012 and their contributions covered the multiple dimensions of the partial least squares-based methods. These exciting theoretical developments ranged from partial least squares regression and correlation, component based path modeling to regularized regression and subspace visualization. In following the tradition of the six previous PLS meetings, these contributions also included a large variety of PLS approaches such as PLS metamodels, variable selection, sparse PLS regression, distance based PLS, significance vs.

reliability, and non-linear PLS. Finally, these contributions applied PLS methods to data originating from the traditional econometric/economic data to genomics data, brain images, information systems, epidemiology, and chemical spectroscopy. Such a broad and comprehensive volume will also encourage new uses of PLS models in work by researchers and students in many fields.

**A Primer on Partial Least Squares Structural Equation Modeling (PLS-SEM)** Joseph F. Hair, Jr., G. Tomas M.

Hult, Christian Ringle, Marko Sarstedt, 2016-02-29 A Primer on Partial Least Squares Structural Equation Modeling (PLS-SEM) by Joseph F. Hair, Jr., G. Tomas M. Hult, Christian Ringle, and Marko Sarstedt is a practical guide that provides concise instructions on how to use partial least squares structural equation modeling (PLS-SEM), an evolving statistical technique, to conduct research and obtain solutions. Featuring the latest research, new examples using the SmartPLS software, and expanded discussions throughout, the Second Edition is designed to be easily understood by those with limited statistical and mathematical training who want to pursue research opportunities in new ways.

*Partial Least Squares Path Modeling* Hengky Latan, Joseph F. Hair, Jr., Richard Noonan, 2023-12-16 Now in its second edition, this edited book presents recent progress and techniques in partial least squares path modeling (PLS-PM), and provides a comprehensive overview of the current state-of-the-art in PLS-PM research. Like the previous edition, the book is divided into three parts: the first part emphasizes the basic concepts and extensions of the PLS-PM method; the second part discusses the methodological issues that have been the focus of recent developments, and the last part deals with real-world applications of the PLS-PM method in various disciplines. This new edition broadens the scope of the first edition and consists of entirely new original contributions, again written by expert authors in the field, on a wide range of topics, including: how to perform quantile

composite path modeling with R; the rationale and justification for using PLS-PM in top-tier journals; psychometric properties of three weighting schemes and why PLS-PM is a better fit to mode B; a comprehensive review of PLS software; how to perform out-of-sample predictions with ordinal consistent partial least squares; multicollinearity issues in PLS-PM using ridge regression; theorizing and testing specific indirect effects in PLS and considering their effect size; how to run hierarchical models and available approaches; and how to apply necessary condition analysis (NCA) in PLS-PM. This book will appeal to researchers interested in the latest advances in PLS-PM as well as masters and Ph.D. students in a variety of disciplines who use PLS-PM methods. With clear guidelines on selecting and using PLS-PM, especially those related to composite models, readers will be brought up to date on recent debates in the field.

Structural Equation Modelling with Partial Least Squares Using Stata and R Mehmet Mehmetoglu, Sergio Venturini, 2020-12-22

Partial least squares structural equation modelling (PLS-SEM) is becoming a popular statistical framework in many fields and disciplines of the social sciences. The main reason for this popularity is that PLS-SEM can be used to estimate models including latent variables, observed variables, or a combination of these. The popularity of PLS-SEM is predicted to increase even more as a result of the development of new and more robust estimation approaches, such as consistent PLS-SEM. The traditional and modern estimation methods for PLS-SEM are now readily facilitated by both open-source and commercial software packages. This book presents PLS-SEM as a useful practical statistical toolbox that can be used for estimating many different types of research models. In so doing, the authors provide the necessary technical prerequisites and theoretical treatment of various aspects of PLS-SEM prior to practical applications. What makes the book unique is the fact that it thoroughly explains and extensively uses comprehensive Stata (plsem) and R (cSEM and

plspm) packages for carrying out PLS-SEM analysis. The book aims to help the reader understand the mechanics behind PLS-SEM as well as performing it for publication purposes. Features: Intuitive and technical explanations of PLS-SEM methods Complete explanations of Stata and R packages Lots of example applications of the methodology Detailed interpretation of software output Reporting of a PLS-SEM study Github repository for supplementary book material The book is primarily aimed at researchers and graduate students from statistics, social science, psychology, and other disciplines. Technical details have been moved from the main body of the text into appendices, but it would be useful if the reader has a solid background in linear regression analysis.

The Multiple Facets of Partial Least Squares and Related Methods Hervé Abdi, Vincenzo Esposito Vinzi, Giorgio Russolillo, Gilbert Saporta, Laura Trinchera, 2016-10-13 This volume presents state of the art theories, new developments, and important applications of Partial Least Square (PLS) methods. The text begins with the invited communications of current leaders in the field who cover the history of PLS, an overview of methodological issues, and recent advances in regression and multi-block approaches. The rest of the volume comprises selected, reviewed contributions from the 8th International Conference on Partial Least Squares and Related Methods held in Paris, France, on 26-28 May, 2014. They are organized in four coherent sections: 1) new developments in genomics and brain imaging, 2) new and alternative methods for multi-table and path analysis, 3) advances in partial least square regression (PLSR), and 4) partial least square path modeling (PLS-PM) breakthroughs and applications. PLS methods are very versatile methods that are now used in areas as diverse as engineering, life science, sociology, psychology, brain imaging, genomics, and business among both academics and practitioners. The selected chapters here highlight this diversity with applied examples as well as the most recent advances.

**Seth Slocum, Railroad Surveyor a Tale of the Great Northern Pacific Road Building** Michael Pallamary

PLS,2020-05-11 Mr. Pallamary is a professional Land Surveyor, with offices in La Jolla, California. He is the author of "The Lay of the Land," the definitive history of land surveying in Southern California. He is the author of "The Curt Brown Chronicles," a compilation of the writings and lectures of the late Curtis M. Brown, PLS and he is the co-author of "The History of San Diego Land Surveying Experiences," written with the late Curtis M. Brown. He is the co-author of "Advanced Land Descriptions," co-written with the late Paul Cuomo, PLS and the late Roy Minnick, PLS. Mr. Pallamary has been in the land surveying profession since 1971. He brings a broad depth of experience to the professional community. He is a frequent lecturer at conferences, seminars and universities across the country.

*A Primer on Partial Least Squares Structural Equation Modeling (PLS-SEM)* Joseph F. Hair, Jr.,G. Tomas M. Hult,Christian M. Ringle,Marko Sarstedt,2021-06-30 The Third Edition of *A Primer on Partial Least Squares Structural Equation Modeling (PLS-SEM)* guides readers through learning and mastering the techniques of this approach. The authors use their teaching experience to communicate the fundamentals of PLS-SEM with limited emphasis on equations and and symbols, relying on straightforward language instead.

**A Primer on Partial Least Squares Structural Equation Modeling (PLS-SEM)** Joseph F. Hair, Jr.,G. Tomas M.

Hult,Christian M. Ringle,Marko Sarstedt,2016-02-29 With applications using SmartPLS —the primary software used in partial least squares structural equation modeling (PLS-SEM)—this practical guide provides concise instructions on how to use this evolving statistical technique to conduct research and obtain solutions. Featuring the latest research, new examples, and expanded discussions throughout, the Second Edition is designed to be easily understood by those with limited statistical and



mathematical training who want to pursue research opportunities in new ways. Please note that all examples in this Second Edition use SmartPLS 3. To access this software, please visit

**Discovering Partial Least Squares with JMP** Ian Cox, Marie Gaudard, 2013-10 Using JMP statistical discovery software from SAS, *Discovering Partial Least Squares with JMP* explores Partial Least Squares and positions it within the more general context of multivariate analysis. This book motivates current and potential users of JMP to extend their analytical repertoire by embracing PLS. Dynamically interacting with JMP, you will develop confidence as you explore underlying concepts and work through the examples. The authors provide background and guidance to support and empower you on this journey.

*State of the Art in Partial Least Squares Structural Equation Modeling (PLS-SEM)* Lăcrămioara Radomir, Raluca Ciornea, Huiwen Wang, Yide Liu, Christian M. Ringle, Marko Sarstedt, 2023-09-15 This edited volume brings together some of the best papers from the 2022 Conference on Partial Least Squares Structural Equation Modeling (PLS-SEM), held at the Babeş-Bolyai University, Cluj, Romania. The volume seeks to expand the current research on PLS-SEM and promote the method's application in the scientific community. It gathers research from scholars in many different fields who work on the advancement of PLS-SEM and who apply the method to explain and predict behavioral phenomena. Researchers today can draw on a wide array of different PLS-SEM-based algorithms, complementary methods, and model evaluation metrics. Tying in with these developments, the first part of this book documents methodological advances of PLS-SEM, which extend the researchers' current toolbox of methods. The following parts demonstrate state-of-the-art applications of PLS-SEM in various fields such as consumer behavior, hospitality, human resource management, entrepreneurship, and organizational behavior. Special emphasis is placed on studies that apply complementary methods to offer a more nuanced analysis of the

research questions.

Handbook of Partial Least Squares Vincenzo Esposito Vinzi, Wynne W. Chin, Jörg Henseler, Huiwen Wang, 2010-03-10 This handbook provides a comprehensive overview of Partial Least Squares (PLS) methods with specific reference to their use in marketing and with a discussion of the directions of current research and perspectives. It covers the broad area of PLS methods, from regression to structural equation modeling applications, software and interpretation of results. The handbook serves both as an introduction for those without prior knowledge of PLS and as a comprehensive reference for researchers and practitioners interested in the most recent advances in PLS methodology.

### **Partial Least Squares Structural Equation Modeling**

Necmi K. Avkiran, Christian M. Ringle, 2018-02-16 This book pulls together robust practices in Partial Least Squares Structural Equation Modeling (PLS-SEM) from other disciplines and shows how they can be used in the area of Banking and Finance. In terms of empirical analysis techniques, Banking and Finance is a conservative discipline. As such, this book will raise awareness of the potential of PLS-SEM for application in various contexts. PLS-SEM is a non-parametric approach designed to maximize explained variance in latent constructs. Latent constructs are directly unobservable phenomena such as customer service quality and managerial competence. Explained variance refers to the extent we can predict, say, customer service quality, by examining other theoretically related latent constructs such as conduct of staff and communication skills. Examples of latent constructs at the microeconomic level include customer service quality, managerial effectiveness, perception of market leadership, etc.; macroeconomic-level latent constructs would be found in contagion of systemic risk from one financial sector to another, herd behavior among fund managers, risk tolerance in financial markets, etc. Behavioral Finance is bound to provide a wealth of

opportunities for applying PLS-SEM. The book is designed to expose robust processes in application of PLS-SEM, including use of various software packages and codes, including R. PLS-SEM is already a popular tool in marketing and management information systems used to explain latent constructs. Until now, PLS-SEM has not enjoyed a wide acceptance in Banking and Finance. Based on recent research developments, this book represents the first collection of PLS-SEM applications in Banking and Finance. This book will serve as a reference book for those researchers keen on adopting PLS-SEM to explain latent constructs in Banking and Finance.

The Curt Brown Chronicles Michael J. Pallamary, 2011-03-11  
Curtis M. Brown has long been recognized as the worlds foremost authorities on land surveying. His works and textbooks are found in virtually every Land Surveyors library across the country. His legal principles have been adopted by a large number of courts across the United States and his books are standard reference works for practicing Land Surveyors. The Curt Brown Chronicles presents a collection of papers, lectures, and articles prepared by Mr. Brown in the course of developing the principles and authorities for his textbooks and classes. While serving as a member of the American Congress on Surveying and Mapping (ACSM), Mr. Brown was a regular contributor to The Surveyor and Law and the Comment and Discussion columns as well as other important articles. In this capacity, Mr. Brown would respond to inquiries from Land Surveyors across the United States on a variety of subjects related to land surveying and the application of relevant law. His opinions continue to have considerable influence on the professional land surveying community and the legal community. Many of the papers contained in The Curt Brown Chronicles have not been released since their original publication in the 1950s and 1960s. Nevertheless, the subjects are still germane and in many ways, Curts focus on many subjects was prescient. Mr. Browns articles on Land Surveyors Liability to

Unwritten Rights, Land Surveyors Ethics, and The Professional Status of Land Surveyors, are still considered relevant and are held in as high a regard as is Justice Thomas Cooleys (Chief Justice, Supreme Court of Michigan, 1864-1885) famous article, The Judicial Functions of Surveyors. The Curt Brown Chronicles has been compiled with the consent and permission of ACSM and the Brown family

**Anon Pls.** Deuxmoi, 2022-11-08 Called One of the Best Books of the Year by NPR Dazzling, propulsive, and delightfully juicy, Anon Pls. is the digital age's love letter to *The Devil Wears Prada*. Sexy, suspenseful, and so good you won't want to put it down—not even to check on the latest stories in Deuxmoi's feed. What an incredible debut. — Christina Lauren, New York Times bestselling author of *The Unhoneymooners* From the creator of @Deuxmoi, the popular – and infamous – celebrity gossip Instagram, comes a fun and charming debut novel about a stylist assistant whose drunken decision to turn her Instagram into a celeb gossip account turns her life completely upside down. When Cricket Lopez, assistant to one of the most notorious celebrity stylists, revamps her old fashion Instagram account and turns it into a source for celebrity gossip on a drunken whim, she never thinks it will become anything. It's just a way to blow off steam after a terrible, terrible day at work where her nightmarish boss screams at her and blames her for some 18-year-old influencer's screw-up. But when the account grows overnight and, even wilder, when she starts getting gossip from fans and insiders – juicy gossip – she has to face facts: her Instagram is now famous. She is now famous. Though no one knows that she is behind the account, its newfound success quickly wreaks havoc on her real life. Her boss wonders why she's disappearing on the job, her friends are increasingly irritated by her dedication to the account, and she has celebrities, investors, and journalists approaching her nonstop. Plus, there's a steamy new love interest who she meets through her online persona—except she has no idea if she can truly trust his motives.

As the account grows and becomes more and more influential, she has to wonder: is it – the fame, the insider access, the escape from real life – really worth losing everything she has?

**Diary of a Land Surveyor** WG Vanderhorst, PLS, 2014-08-13 I remain a man of Eureka, California, Humboldt Hill. Whether we see life as same, or not, we may learn. The most important part of life is we are not “equal”. We must start from there. “Equality” begins with putting something “in”. I shall do the math.

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