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Titolo	Innovations in improving access to higher education // Barbara Schneider, Justina Judy, issue editors ; Gil G. Noam, editor-in-chief
Pubbl/distr/stampa	Hoboken, NJ : , : Wiley Periodicals, Inc., , [2014] ©2014
ISBN	1-118-87248-7
Descrizione fisica	1 online resource (128 p.)
Collana	New directions for youth development : theory, practice, research, , 1533-8916 ; ; number 140 (Winter 2013)
Altri autori (Persone)	SchneiderBarbara JudyJustina NoamGil G
Disciplina	378.747
Soggetti	College preparation programs - Research - United States Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Innovations in Improving Access to Higher Education; Contents; Issue Editors' Notes; Executive Summary; 1 Pathways to college and STEM careers: Enhancing the high school experience; The complexity of the college search process; Assisting high school students in the college application process; Supporting students in high school: The College Ambition Program; Summer outreach; Preliminary findings; Student perspectives; Sustainability, policy, and practical applications; Notes; 2 Research into practice: Postsecondary success in the Chicago Public Schools; High school effects on college going Capacity building research Developing an extensive data archive on CPS; Extensive stakeholder engagement and strong ongoing relationships with the district; Conducting scientifically rigorous research while making findings broadly accessible; Building knowledge of core problems across time and across studies; An extensive outreach to provide information to broader audiences; Case study: The college counselors collaborative; Conclusion; Notes; 3 Lessons learned from a data-driven college access program: The National College Advising Corps; Triangulation of data sources; Student survey data

Adviser survey National Student Clearinghouse data; Site visits; Triangulation; Partnerships; Program design: Federal, regional, and local levels; Research relationships with individual states; Scholarly studies; College-going culture; Advise Texas experiment; College advising dosage experiment; Data-driven program changes; Conclusion; Notes; 4 The not-so-lazy days of summer: Experimental interventions to increase college entry among low-income high school graduates; Possible causes of summer melt; Mitigating summer melt The potential of text messaging to deliver personalized college information The potential of peer mentoring to mitigate summer attrition; Sites and intervention design; Conclusion; Notes; 5 Is traditional financial aid too little, too late to help youth succeed in college? An introduction to The Degree Project promise scholarship experiment; The Degree Project (TDP); TDP communications plan; Random assignment; General rationale: Affordability, social capital, and academic preparation; Potential implications for the nation's financial aid system; Notes; Index; Order Form

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Sommario/riassunto

Gaining an understanding about the barriers in transitioning from high school to college is crucial to improving college access and matriculation-particularly for low-income families and first-generation college-goers. These obstacles include many factors, such as: Lack of access to resources at home or school Not having a rigorous college-preparatory curriculum or not taking advantage of these courses Misperceptions about the college-going process. This volume introduces innovative and effective ways to ease the transition process. One essential quest

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2. Record Nr.	UNINA9911019379303321
Autore	Smilde Age K
Titolo	Multi-way analysis with applications in the chemical sciences // Age Smilde, Rasmus Bro, and Paul Geladi
Pubbl/distr/stampa	Chichester, West Sussex, England ; ; Hoboken, NJ, : J. Wiley, c2004
ISBN	9786610274628 9781280274626 128027462X 9780470012116 0470012110 9780470012109 0470012102
Descrizione fisica	1 online resource (397 p.)
Altri autori (Persone)	BroRasmus GeladiPaul
Disciplina	540/.72
Soggetti	Chemistry - Statistical methods Multivariate analysis
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. [351]-369) and index.
Nota di contenuto	Multi-way Analysis with Applications in the Chemical Sciences; CONTENTS; Foreword; Preface; Nomenclature and Conventions; 1 Introduction; 1.1 What is multi-way analysis?; 1.2 Conceptual aspects of multi-way data analysis; 1.3 Hierarchy of multivariate data structures in chemistry; 1.4 Principal component analysis and PARAFAC; 1.5 Summary; 2 Array definitions and properties; 2.1 Introduction; 2.2 Rows, columns and tubes; frontal, lateral and horizontal slices; 2.3 Elementary operations; 2.4 Linearity concepts; 2.5 Rank of two-way arrays; 2.6 Rank of three-way arrays 2.7 Algebra of multi-way analysis 2.8 Summary; Appendix 2.A; 3 Two-way component and regression models; 3.1 Models for two-way one-block data analysis: component models; 3.2 Models for two-way two-block data analysis: regression models; 3.3 Summary; Appendix 3.A: some PCA results; Appendix 3.B: PLS algorithms; 4 Three-way component and regression models; 4.1 Historical introduction to multi-

way models; 4.2 Models for three-way one-block data: three-way component models; 4.3 Models for three-way two-block data: three-way regression models; 4.4 Summary  
Appendix 4.A: alternative notation for the PARAFAC model  
Appendix 4.B: alternative notations for the Tucker3 model; 5 Some properties of three-way component models; 5.1 Relationships between three-way component models; 5.2 Rotational freedom and uniqueness in three-way component models; 5.3 Properties of Tucker3 models; 5.4 Degeneracy problem in PARAFAC models; 5.5 Summary; 6 Algorithms; 6.1 Introduction; 6.2 Optimization techniques; 6.3 PARAFAC algorithms; 6.4 Tucker3 algorithms; 6.5 Tucker2 and Tucker1 algorithms; 6.6 Multi-linear partial least squares regression; 6.7 Multi-way covariates regression models; 6.8 Core rotation in Tucker3 models; 6.9 Handling missing data; 6.10 Imposing non-negativity; 6.11 Summary; Appendix 6.A: closed-form solution for the PARAFAC model; Appendix 6.B: proof that the weights in trilinear PLS1 can be obtained from a singular value decomposition; 7 Validation and diagnostics; 7.1 What is validation?; 7.2 Test-set and cross-validation; 7.3 Selecting which model to use; 7.4 Selecting the number of components; 7.5 Residual and influence analysis; 7.6 Summary; 8 Visualization; 8.1 Introduction; 8.2 History of plotting in three-way analysis; 8.3 History of plotting in chemical three-way analysis; 8.4 Scree plots; 8.5 Line plots; 8.6 Scatter plots; 8.7 Problems with scatter plots; 8.8 Image analysis; 8.9 Dendrograms; 8.10 Visualizing the Tucker core array; 8.11 Joint plots; 8.12 Residual plots; 8.13 Leverage plots; 8.14 Visualization of large data sets; 8.15 Summary; 9 Preprocessing; 9.1 Background; 9.2 Two-way centering; 9.3 Two-way scaling; 9.4 Simultaneous two-way centering and scaling; 9.5 Three-way preprocessing; 9.6 Summary; Appendix 9.A: other types of preprocessing; Appendix 9.B: geometric view of centering

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## Sommario/riassunto

This book is an introduction to the field of multi-way analysis for chemists and chemometricians. Its emphasis is on the ideas behind the method and its practical applications. Sufficient mathematical background is given to provide a solid understanding of the ideas behind the method. There are currently no other books on the market which deal with this method from the viewpoint of its applications in chemistry. Applicable in many areas of chemistry. No comparable volume currently available. The field is becoming increasingly important.

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3. Record Nr.	UNISANNIOUBO4616415
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Formato	Materiale a stampa
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