

# Automated Essay Scoring

## A Cross-Disciplinary Perspective

Edited by

Mark D. Shermis - Jill C. Burstein

# Automated Essay Scoring A Cross Disciplinary Perspective

**Olaf Zawacki-Richter, Insung Jung**



## **Automated Essay Scoring A Cross Disciplinary Perspective:**

Automated Essay Scoring Mark D. Shermis, Jill C. Burstein, 2003-01-30 This new volume is the first to focus entirely on automated essay scoring and evaluation. It is intended to provide a comprehensive overview of the evolution and state of the art of automated essay scoring and evaluation technology across several disciplines including education testing and measurement, cognitive science, computer science, and computational linguistics. The development of this technology has led to many questions and concerns. Automated Essay Scoring attempts to address some of these questions including: How can automated scoring and evaluation supplement classroom instruction? How does the technology actually work? Can it improve students' writing? How reliable is the technology? How can these computing methods be used to develop evaluation tools? What are the state-of-the-art essay evaluation technologies and automated scoring systems? Divided into four parts, the first part reviews the teaching of writing and how computers can contribute to it. Part II analyzes actual automated essay scorers including e-rater™, Intellimetric, and the Intelligent Essay Assessor. The third part analyzes related psychometric issues, and the final part reviews innovations in the field. This book is ideal for researchers and advanced students interested in automated essay scoring from the fields of testing and measurement, education, cognitive science, language, and computational linguistics.

*Handbook of Automated Essay Evaluation* Mark D. Shermis, Jill Burstein, 2013-07-18 This comprehensive interdisciplinary handbook reviews the latest methods and technologies used in automated essay evaluation (AEE) methods and technologies. Highlights include the latest in the evaluation of performance-based writing assessments and recent advances in the teaching of writing, language testing, cognitive psychology, and computational linguistics. This greatly expanded follow-up to *Automated Essay Scoring* reflects the numerous advances that have taken place in the field since 2003, including automated essay scoring and diagnostic feedback. Each chapter features a common structure including an introduction and a conclusion. Ideas for diagnostic and evaluative feedback are sprinkled throughout the book. Highlights of the book's coverage include: The latest research on automated essay evaluation. Descriptions of the major scoring engines including the E-rater, the Intelligent Essay Assessor, the Intellimetric™ Engine, e-rater™, and LightSIDE. Applications of the uses of the technology including a large-scale system used in West Virginia. A systematic framework for evaluating research and technological results. Descriptions of AEE methods that can be replicated for languages other than English, as seen in the example from China. Chapters from key researchers in the field. The book opens with an introduction to AEEs and a review of the best practices of teaching writing along with tips on the use of automated analysis in the classroom. Next, the book highlights the capabilities and applications of several scoring engines including the E-rater, the Intelligent Essay Assessor, the Intellimetric™ engine, e-rater™, and LightSIDE. Here, readers will find an actual application of the use of an AEE in West Virginia, psychometric issues related to AEEs such as validity, reliability, and scaling, and the use of automated scoring to detect reader drift, grammatical errors, discourse coherence, quality, and the impact of human rating on AEEs. A review of the

cognitive foundations underlying methods used in AEE is also provided The book concludes with a comparison of the various AEE systems and speculation about the future of the field in light of current educational policy Ideal for educators professionals curriculum specialists and administrators responsible for developing writing programs or distance learning curricula those who teach using AEE technologies policy makers and researchers in education writing psychometrics cognitive psychology and computational linguistics this book also serves as a reference for graduate courses on automated essay evaluation taught in education computer science language linguistics and cognitive psychology

*Handbook of Research on New Media Literacy at the K-12 Level: Issues and Challenges* Tan Wee Hin, Leo, Subramaniam, R., 2009-05-31 Provides comprehensive articles on significant issues methods and theories currently combining the studies of technology and literacy

**Psychometrics** C.R. Rao, Sandip Sinharay, 2007 This volume representing a compilation of authoritative reviews on a multitude of uses of statistics in epidemiology and medical statistics written by internationally renowned experts is addressed to statisticians working in biomedical and epidemiological fields who use statistical and quantitative methods in their work While the use of statistics in these fields has a long and rich history explosive growth of science in general and clinical and epidemiological sciences in particular have gone through a sea of change spawning the development of new methods and innovative adaptations of standard methods Since the literature is highly scattered the Editors have undertaken this humble exercise to document a representative collection of topics of broad interest to diverse users The volume spans a cross section of standard topics oriented toward users in the current evolving field as well as special topics in much need which have more recent origins This volume was prepared especially keeping the applied statisticians in mind emphasizing applications oriented methods and techniques including references to appropriate software when relevant The contributors are internationally renowned experts in their respective areas This volume addresses emerging statistical challenges in epidemiological biomedical and pharmaceutical research It features methods for assessing Biomarkers analysis of competing risks clinical trials including sequential and group sequential crossover designs cluster randomized and adaptive designs and structural equations modelling and longitudinal data analysis

**Advancing Natural Language Processing in Educational Assessment** Victoria Yaneva, Matthias von Davier, 2023-06-05 Advancing Natural Language Processing in Educational Assessment examines the use of natural language technology in educational testing measurement and assessment Recent developments in natural language processing NLP have enabled large scale educational applications though scholars and professionals may lack a shared understanding of the strengths and limitations of NLP in assessment as well as the challenges that testing organizations face in implementation This first of its kind book provides evidence based practices for the use of NLP based approaches to automated text and speech scoring language proficiency assessment technology assisted item generation gamification learner feedback and beyond Spanning historical context validity and fairness issues emerging technologies and implications for feedback and personalization these chapters represent the most

robust treatment yet about NLP for education measurement researchers psychometricians testing professionals and policymakers The Open Access version of this book available at [www.taylorfrancis.com](http://www.taylorfrancis.com) has been made available under a Creative Commons Attribution NonCommercial No Derivatives 4.0 license

*Handbook of Writing Research* Charles A. MacArthur, Steve Graham, Jill Fitzgerald, 2015-10-27 This book has been replaced by *Handbook of Writing Research Third Edition* ISBN 978 1 4625 5727 1

Contemporary Second Language Assessment Jayanti Veronique Banerjee, Dina Tsagari, 2016-06-30 Includes chapters on key aspects of second language assessment such as test construct diagnosis exam design and the growing range of public policy social and ethical issues Each of the contributors is an expert in their area some are established names while others are talented newcomers to the field The chapters present new research or perspectives on traditional concerns such as test quality fairness and bias the testing of different language skills the needs of different groups of examinees including English language learners who need to take content tests in English and the use of language assessments for gate keeping purposes The volume demonstrates how language assessment is informed by and engages with neighbouring areas of applied linguistics such as technology and language corpora The book represents the best of current practice in second language assessment and as a one volume reference will be invaluable to students and researchers looking for material that extends their understanding of the field

Handbook of Test Security James A. Wollack, John J. Fremer, 2013-09-02 High stakes tests are the gatekeepers to many educational and professional goals As such the incentive to cheat is high This Handbook is the first to offer insights from experts within the testing community psychometricians and policymakers to identify and develop best practice guidelines for the design of test security systems for a variety of testing genres Until now this information was scattered and often resided inside testing companies As a result rather than being able to learn from each other's experiences each testing entity was left to re create their own test security wheel As a whole the book provides invaluable insight into the prevalence of cheating and best practices for designing security plans training personnel and detecting and investigating misconduct to help develop more secure testing systems and reduce the likelihood of future security breaches Actual case studies from a variety of settings bring to life how security systems really work Examples from both domestic and international programs are provided Highlights of coverage include Best practices for designing secure tests Analysis of security vulnerabilities for all genres of testing Practical cheating prevention and detection strategies Lessons learned in actual security violations in high profile testing programs Part I focuses on how tests are delivered for paper and pencil technology based and classroom testing and writing assessment Each chapter addresses the prevalence of the problem and threats to security prevention and detection Part II addresses issues essential to maintaining a secure testing program such as planning and monitoring physical security the detection of group based cheating investigating misconduct and communicating about security related issues Part III examines actual examples of cheating how the cheating was done how it was detected and the lessons learned Part III provides insight into security

issues within each of the Association of Test Publishers four divisions certification licensure clinical educational and industrial organizational testing Part III s conclusion revisits the issues addressed in the case studies and identifies common themes Intended for organizations professionals educators policy makers researchers and advanced students that design develop or use high stakes tests this book is also ideal for graduate level courses on test development educational measurement or educational policy

**Handbook of Open, Distance and Digital Education** Olaf Zawacki-Richter, Insung Jung, 2023-01-01 This open access handbook offers a one stop shop for both new and established researchers educators policy makers and administrators in the field of open distance and digital education ODDE to gain a comprehensive overview of the history theory and practice at all levels of ODDE and at the same time stimulates in depth discussions on various themes and issues of ODDE for today and future Researchers scholars and students in the field of ODDE can use this handbook as a major reference to conduct their own research and learning agendas To cover the field comprehensively the handbook is structured following the 3M framework developed by one of the chief editors Zawacki Richter The 3M framework categorizes the major research areas and issues in ODDE on three levels Accordingly the handbook is divided into six sections in total two section at each of the three levels 1 Macro Level ODDE Systems and Theories 2 Meso Level Institutional Perspectives Management and Organization and 3 Micro Level Learning and Teaching in ODDE This is an open access book

**Quantitative Psychology Research** L. Andries van der Ark, Daniel M. Bolt, Wen-Chung Wang, Jeffrey A. Douglas, Sy-Miin Chow, 2015-08-08 These research articles from the 79th Annual Meeting of the Psychometric Society IMPS cover timely quantitative psychology topics including new methods in item response theory computerized adaptive testing cognitive diagnostic modeling and psychological scaling Topics within general quantitative methodology include structural equation modeling factor analysis causal modeling mediation missing data methods and longitudinal data analysis These methods will appeal in particular to researchers in the social sciences The 79th annual meeting took place in Madison WI between July 21nd and 25th 2014 Previous volumes to showcase work from the Psychometric Society s Meeting are New Developments in Quantitative Psychology Presentations from the 77th Annual Psychometric Society Meeting Springer 2013 and Quantitative Psychology Research The 78th Annual Meeting of the Psychometric Society Springer 2015

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