

# Handbook of Automated Essay Evaluation

Current Applications and New Directions

Edited by  
Mark D. Shermis  
and Jill Burstein



# Handbook Of Automated Essay Evaluation Handbook Of Automated Essay Evaluation

**Michael E. Auer, Thrasyvoulos Tsiatsos**



## **Handbook Of Automated Essay Evaluation Handbook Of Automated Essay Evaluation:**

*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 c 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 c 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 Automated Essay Evaluation*, 2013 *The Routledge International Handbook of Automated Essay Evaluation* Mark D. Shermis, Joshua Wilson, 2024-06-27 The Routledge International Handbook of Automated Essay Evaluation AEE is a definitive guide at the intersection of automation artificial intelligence and education This volume encapsulates the ongoing advancement of AEE reflecting its application in both large scale and classroom based assessments to support teaching and learning endeavors It presents a comprehensive overview of AEE s current applications including its extension into reading speech mathematics and writing research modern automated feedback systems critical issues in automated evaluation such as psychometrics fairness bias

transparency and validity and the technological innovations that fuel current and future developments in this field As AEE approaches a tipping point of global implementation this Handbook stands as an essential resource advocating for the conscientious adoption of AEE tools to enhance educational practices ethically The Handbook will benefit readers by equipping them with the knowledge to thoughtfully integrate AEE thereby enriching educational assessment teaching and learning worldwide Aimed at researchers educators AEE developers and policymakers the Handbook is poised not only to chart the current landscape but also to stimulate scholarly discourse define and inform best practices and propel and guide future innovations

**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 Automated Scoring* Duanli Yan, André A. Rupp, Peter W. Foltz, 2020-02-26 Automated scoring engines require a careful

balancing of the contributions of technology NLP psychometrics artificial intelligence and the learning sciences The present handbook is evidence that the theories methodologies and underlying technology that surround automated scoring have reached maturity and that there is a growing acceptance of these technologies among experts and the public From the Foreword by Alina von Davier ACTNext Senior Vice President Handbook of Automated Scoring Theory into Practice provides a scientifically grounded overview of the key research efforts required to move automated scoring systems into operational practice It examines the field of automated scoring from the viewpoint of related scientific fields serving as its foundation the latest developments of computational methodologies utilized in automated scoring and several large scale real world applications of automated scoring for complex learning and assessment systems The book is organized into three parts that cover 1 theoretical foundations 2 operational methodologies and 3 practical illustrations each with a commentary In addition the handbook includes an introduction and synthesis chapter as well as a cross chapter glossary The SAGE Encyclopedia of Educational Research, Measurement, and Evaluation Bruce B. Frey, 2018-01-29 This encyclopedia is the first major reference guide for students new to the field covering traditional areas while pointing the way to future developments

**Computational Methods and Data Engineering** Vijendra Singh, Vijayan K. Asari, Sanjay Kumar, R. B. Patel, 2020-11-04 This book gathers selected high quality research papers from the International Conference on Computational Methods and Data Engineering ICMDE 2020 held at SRM University Sonapat Delhi NCR India Focusing on cutting edge technologies and the most dynamic areas of computational intelligence and data engineering the respective contributions address topics including collective intelligence intelligent transportation systems fuzzy systems data privacy and security data mining data warehousing big data analytics cloud computing natural language processing swarm intelligence and speech processing

The Concise Companion to Language Assessment Antony John Kunnan, 2024-09-04 The Concise Companion to Language Assessment provides a state of the art overview of the crucial areas of language assessment teaching and learning Edited by one of the foremost scholars in the field The Concise Companion combines newly commissioned articles on innovations in assessment with a selection of chapters from The Companion to Language Assessment the landmark four volume reference work first published in 2013 Presented in eight themes The Concise Companion addresses a broad range of language assessment methods issues and contexts Forty five chapters cover assessment conceptualization development research and policy as well as recent changes in language assessment technology learning oriented assessment teacher based assessment teacher assessment literacy plurilingual assessment assessment for immigration and more Exploring the past present and future possibilities of the dynamic field The Concise Companion to Language Assessment Contains dedicated chapters on listening speaking reading writing vocabulary pronunciation intercultural competence and other language skills Describes fundamental assessment design and scoring guidelines as well as advanced concepts in scenario based assessment and automated performance scoring Provides insights on different assessment environments such as classrooms universities

employment immigration and healthcare Covers various qualitative and quantitative research methods including introspective methods classical reliability and structural equation modeling Discusses the impacts of colonialism and discrimination on the history of language assessment Explores the use of AI in writing evaluation plagiarism and cheating detection and other assessment contexts Sure to become a standard text for the next generation of applied linguistics students The Concise Companion to Language Assessment is an invaluable textbook for undergraduate and graduate courses in applied linguistics language assessment TESOL second language acquisition and language policy *Handbook of Writing Research, Second Edition* Charles A. MacArthur, Steve Graham, Jill Fitzgerald, 2016-10-31 The definitive reference in the field this volume synthesizes current knowledge on writing development and instruction at all grade levels Prominent scholars examine numerous facets of writing from sociocultural cognitive linguistic neuroscience and new literacy technological perspectives The volume reviews the evidence base for widely used instructional approaches including those targeting particular components of writing Issues in teaching specific populations including students with disabilities and English learners are addressed Innovative research methods and analytic tools are clearly explained and key directions for future investigation identified New to This Edition Chapters on genre instruction evaluation and revision argumentative writing computer based instruction and professional development Chapters on new literacies out of school writing translation and self regulation Many new topics and authors including more international perspectives Multiple chapters connect research findings to the Common Core writing standards See also the editors Best Practices in Writing Instruction Second Edition an accessible course text and practitioner s guide [Handbook of Writing Research](#) , *Educational and Psychological Measurement* W. Holmes Finch, Brian F. French, 2018-10-12 This new text provides the most current coverage of measurement and psychometrics in a single volume Authors W Holmes Finch and Brian F French first review the basics of psychometrics and measurement before moving on to more complex topics such as equating and scaling item response theory standard setting and computer adaptive testing Also included are discussions of cutting edge topics utilized by practitioners in the field such as automated test development game based assessment and automated test scoring This book is ideal for use as a primary text for graduate level psychometrics measurement courses as well as for researchers in need of a broad resource for understanding test theory Features How it Works and Psychometrics in the Real World boxes break down important concepts through worked examples and show how theory can be applied to practice End of chapter exercises allow students to test their comprehension of the material while suggested readings and website links provide resources for further investigation A collection of free online resources include the full output from R SPSS and Excel for each of the analyses conducted in the book as well as additional exercises sample homework assignments answer keys and PowerPoint lecture slides [Adoption of Data Analytics in Higher Education Learning and Teaching](#) Dirk Ifenthaler, David Gibson, 2020-08-10 The book aims to advance global knowledge and practice in applying data science to transform higher

education learning and teaching to improve personalization access and effectiveness of education for all Currently higher education institutions and involved stakeholders can derive multiple benefits from educational data mining and learning analytics by using different data analytics strategies to produce summative real time and predictive or prescriptive insights and recommendations Educational data mining refers to the process of extracting useful information out of a large collection of complex educational datasets while learning analytics emphasizes insights and responses to real time learning processes based on educational information from digital learning environments administrative systems and social platforms This volume provides insight into the emerging paradigms frameworks methods and processes of managing change to better facilitate organizational transformation toward implementation of educational data mining and learning analytics It features current research exploring the a theoretical foundation and empirical evidence of the adoption of learning analytics b technological infrastructure and staff capabilities required as well as c case studies that describe current practices and experiences in the use of data analytics in higher education

Adaptive Educational Technologies for Literacy Instruction  
Scott A. Crossley, Danielle S. McNamara, 2016-06-17 While current educational technologies have the potential to fundamentally enhance literacy education many of these tools remain unknown to or unused by today's practitioners due to a lack of access and support Adaptive Educational Technologies for Literacy Instruction presents actionable information to educators administrators and researchers about available educational technologies that provide adaptive personalized literacy instruction to students of all ages These accessible comprehensive chapters written by leading researchers who have developed systems and strategies for classrooms introduce effective technologies for reading comprehension and writing skills

*Advancing Human Assessment* Randy E. Bennett, Matthias von Davier, 2017-10-17 This book is open access under a CC BY NC 2.5 license This book describes the extensive contributions made toward the advancement of human assessment by scientists from one of the world's leading research institutions Educational Testing Service The book's four major sections detail research and development in measurement and statistics education policy analysis and evaluation scientific psychology and validity Many of the developments presented have become de facto standards in educational and psychological measurement including in item response theory IRT linking and equating differential item functioning DIF and educational surveys like the National Assessment of Educational Progress NAEP the Programme of international Student Assessment PISA the Progress of International Reading Literacy Study PIRLS and the Trends in Mathematics and Science Study TIMSS In addition to its comprehensive coverage of contributions to the theory and methodology of educational and psychological measurement and statistics the book gives significant attention to ETS work in cognitive personality developmental and social psychology and to education policy analysis and program evaluation The chapter authors are long standing experts who provide broad coverage and thoughtful insights that build upon decades of experience in research and best practices for measurement evaluation scientific psychology and education policy analysis Opening with a chapter on the genesis of ETS

and closing with a synthesis of the enormously diverse set of contributions made over its 70 year history the book is a useful resource for all interested in the improvement of human assessment

**The Wiley Handbook of Cognition and Assessment** Andre A. Rupp, Jacqueline P. Leighton, 2016-11-21 This state of the art resource brings together the most innovative scholars and thinkers in the field of testing to capture the changing conceptual methodological and applied landscape of cognitively grounded educational assessments Offers a methodologically rigorous review of cognitive and learning sciences models for testing purposes as well as the latest statistical and technological know how for designing scoring and interpreting results Written by an international team of contributors at the cutting edge of cognitive psychology and educational measurement under the editorship of a research director at the Educational Testing Service and an esteemed professor of educational psychology at the University of Alberta as well as supported by an expert advisory board Covers conceptual frameworks modern methodologies and applied topics in a style and at a level of technical detail that will appeal to a wide range of readers from both applied and scientific backgrounds Considers emerging topics in cognitively grounded assessment including applications of emerging socio cognitive models cognitive models for human and automated scoring and various innovative virtual performance assessments

**Technology and Testing** Fritz Drasgow, 2015-08-20 From early answer sheets filled in with number 2 pencils to tests administered by mainframe computers to assessments wholly constructed by computers it is clear that technology is changing the field of educational and psychological measurement The numerous and rapid advances have immediate impact on test creators assessment professionals and those who implement and analyze assessments This comprehensive new volume brings together leading experts on the issues posed by technological applications in testing with chapters on game based assessment testing with simulations video assessment computerized test development large scale test delivery model choice validity and error issues Including an overview of existing literature and ground breaking research each chapter considers the technological practical and ethical considerations of this rapidly changing area Ideal for researchers and professionals in testing and assessment Technology and Testing provides a critical and in depth look at one of the most pressing topics in educational testing today The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license

**Innovative Digital-Based International Large-Scale Assessments** Lale Khorramdel, Matthias von Davier, Kentaro Yamamoto, 2025-10-10 This edited volume provides a comprehensive overview of the technology driven innovations that have transformed National and International Large Scale Assessments over the past decade along with the research and considerations that have accompanied these changes It documents the groundwork for ongoing innovations and explores future directions as these assessments continue to evolve While the impact of technology on education and assessments is difficult to predict best practices and emerging principles for transitioning from paper based to digital formats can be described The volume offers guidelines and examples from experts who have transitioned



assessments like PISA PIAAC TIMSS PIRLS and NAEP into the digital era It also highlights research on digital based assessments showcasing new insights from log file and process data as well as innovative domains

**Application of Artificial Intelligence to Assessment** Hong Jiao, Robert W. Lissitz, 2020-03-01 The general theme of this book is to present the applications of artificial intelligence AI in test development In particular this book includes research and successful examples of using AI technology in automated item generation automated test assembly automated scoring and computerized adaptive testing By utilizing artificial intelligence the efficiency of item development test form construction test delivery and scoring could be dramatically increased Chapters on automated item generation offer different perspectives related to generating a large number of items with controlled psychometric properties including the latest development of using machine learning methods Automated scoring is illustrated for different types of assessments such as speaking and writing from both methodological aspects and practical considerations Further automated test assembly is elaborated for the conventional linear tests from both classical test theory and item response theory perspectives Item pool design and assembly for the linear on the fly tests elaborates more complications in practice when test security is a big concern Finally several chapters focus on computerized adaptive testing CAT at either item or module levels CAT is further illustrated as an effective approach to increasing test takers engagement in testing In summary the book includes both theoretical methodological and applied research and practices that serve as the foundation for future development These chapters provide illustrations of efforts to automate the process of test development While some of these automation processes have become common practices such as automated test assembly automated scoring and computerized adaptive testing some others such as automated item generation calls for more research and exploration When new AI methods are emerging and evolving it is expected that researchers can expand and improve the methods for automating different steps in test development to enhance the automation features and practitioners can adopt quality automation procedures to improve assessment practices

**Fundamental Considerations in Technology Mediated Language Assessment** Karim Sadeghi, Dan Douglas, 2023-04-27 Fundamental Considerations in Technology Mediated Language Assessment aims to address issues such as how the forced integration of technology into second language assessment has shaped our understanding of key traditional concepts like validity reliability washback authenticity ethics fairness test security and more Although computer assisted language testing has been around for more than two decades in the context of high stakes proficiency testing much of language testing worldwide has shifted to at home mode and relies heavily on the mediation of digital technology making its widespread application in classroom settings in response to the COVID 19 outbreak unprecedented Integration of technology into language assessment has brought with it countless affordances and at the same time challenges both theoretically and practically One major theoretical consideration requiring attention is the way technology has contributed to a reconceptualization of major assessment concepts constructs There is very limited literature

available on the theoretical underpinnings of technology mediated language assessment This book aims to fill this gap This book will appeal to academic specialists practitioners or professionals in the field of language assessment advanced and or graduate students and a range of scholars or professionals in disciplines like educational technology applied linguistics and teaching English to speakers of other languages TESOL New Realities, Mobile Systems and Applications Michael E. Auer, Thrasyvoulos Tsiatsos, 2022-04-08 This book devotes to new approaches in interactive mobile technologies with a focus on learning Interactive mobile technologies are today the core of many if not all fields of society Not only the younger generation of students expects a mobile working and learning environment And nearly daily new ideas technologies and solutions boost this trend To discuss and assess the trends in the interactive mobile field are the aims connected with the 14th International Conference on Interactive Mobile Communication Technologies and Learning IMCL2021 which was held online from 4 to 5 November 2021 Since its beginning in 2006 this conference is devoted to new approaches in interactive mobile technologies with a focus on learning Nowadays the IMCL conferences are a forum of the exchange of new research results and relevant trends as well as the exchange of experiences and examples of good practice Interested readership includes policy makers academics educators researchers in pedagogy and learning theory school teachers learning Industry further education lecturers etc

## Enjoying the Track of Appearance: An Mental Symphony within **Handbook Of Automated Essay Evaluation Handbook Of Automated Essay Evaluation**

In a global eaten by monitors and the ceaseless chatter of instantaneous transmission, the melodic elegance and emotional symphony developed by the prepared word frequently diminish into the background, eclipsed by the relentless noise and disturbances that permeate our lives. However, located within the pages of **Handbook Of Automated Essay Evaluation Handbook Of Automated Essay Evaluation** a stunning literary treasure overflowing with organic feelings, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, that interesting masterpiece conducts visitors on a mental journey, skillfully unraveling the concealed tunes and profound influence resonating within each cautiously constructed phrase. Within the depths of the poignant assessment, we shall examine the book is key harmonies, analyze its enthralling publishing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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