

Call for papers on
Applications of Operations Research in Educational Measurement
Special Volume of the *Annals of Operations Research*

The educational testing industry has grown significantly over the past few decades. The No Child Left Behind Act of 2002 has required states to assess the educational quality at all public schools. Also, most higher education institutions consider scores on standardized tests for admission, and assess general academic achievement with additional testing. Reliable tests and proper interpretation of the results are vital to today's educational community. More specifically, it is essential to observe the influences of the quality of the test questions, the feedback from the test scores, the reliability of ratings in the future job growth, and the results of validation studies on a consistent basis. This proposed special volume of *Annals of Operations Research* will concentrate on the use of operations research within the educational measurement industry.

This special volume on educational measurement is directed at both academicians and practitioners. Topics of interest include – but are not limited to – the following:

- Static, dynamic, and robust test assembly
- Parameter estimation for large-scale educational models
- Analysis of test results
- Methods used to recognize aberrant behavior (person fit and item fit)
- Simulation of educational measurement systems
- Stochastic processing of items and test takers
- Analysis of item pools
- Item-difficulty modeling
- Item generation



Submission procedure

Please find complete submission instructions at <http://www.editorialmanager.com/anor/>. When requested to select an article type, please select “**SI: Educational Measurement**”. Each paper will be peer reviewed.

Special volume editor

Dr. Dmitry I. Belov, Law School Admission Council, dbelov@lsac.org

A note from the editor

Dr. Ronald D. Armstrong was the co-editor of this volume until his sudden death on January 15, 2011. Professor Armstrong was one of the first to apply operations research methodology to educational measurement issues, making substantial contributions to the field of educational and psychological measurement. In response to this tragic loss, and in recognition of Dr. Armstrong's legacy to the operations research and educational/psychological measurement fields, this volume will be dedicated to his memory.

Important dates

Submission deadline: July 1, 2011

Final version due: September 1, 2012

Publication: Papers will be published online very soon after acceptance