We are pleased to announce the workshop on Multilevel Modeling (MLM) with Large Scale Assessment (LSA) (PIRLS & TIMSS) Data that will be held at the IEA-DPC in Hamburg. This workshop will introduce participants to the basic theory and application of MLM, focusing especially on those features that are particular to Large Scale Assessment data in general and the IEA studies in particular; for example, how to correctly address the sampling design by using sampling weights, handling plausible values, etc. The first part of the workshop will consist of a methodological introduction to MLM. In the second part, participants will learn how to prepare datasets to be analyzed with multilevel models, and how to specify different models using Mplus software 7.3 (Muthén & Muthén, 2014) ad-hoc. Using IEA data, participants will fit and interpret the results of two- and three-level models for testing hypotheses for policy research.

The seminar will combine lectures, software demonstrations, computer exercises, and discussion. The following topics will be covered:

- theoretical background of multilevel models;
- two-and three-level random intercept models;
- two-level random coefficient models;
- model specification, hypothesis testing, and interpretation of the results;
- data preparation; and
- using Mplus software.

After completing the training, participants will be able to specify, estimate, and interpret results of two- and three-level models within the Mplus software environment, as well as formulate and test hypotheses with implications for research and policy.

**Course prerequisites**

This workshop is aimed at individuals with a working knowledge of IEA databases, and a solid knowledge of intermediate statistics (i.e. regression analysis, hypothesis testing) and the respective statistical software. Participants will be required to bring their own PC compatible laptops with SPSS installed. The workshop will introduce participants to the Mplus environment.

**Course material**

Each participant will receive all documentation relevant to the contents of the trainings, a trial version of the software Mplus, and PIRLS & TIMSS 2011 data files in electronic format. Participants have to bring their own laptop with one of the recent SPSS versions installed (or other statistical software that might be used for data preparation, such as SAS).
Course fee and Registration

General registration fee is 325 Euros. Student registration fee is 200 Euros. Evidence of student status must be provided at the time of registration. Please email scanned copy of your student ID to seminar@iea-dpc.de

If you want to attend the workshop, please download, complete and return the registration form by e-mail to seminar@iea-dpc.de no later than April 24th, 2015.

Payment

Payment can be made by wire transfer. You will receive wire transfer instructions with your confirmation email. You are responsible for all wire transfer fees.

Due to "no-shows" at previous trainings, cash payments at check-in will no longer be accepted. Please contact us if you need an alternative form of payment.

Refund Policy

After April 1st, 2015 the registration fee will be non-refundable.

More information

http://www.iea-dpc.de/iea-dpc/workshops/mlm-workshop.html

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