

The h-likelihood analysis for the Rasch model with many subjects

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In item response analysis it often has a large number of subjects involved so that standard softwares cannot be used. In this talk we show how the h-likelihood method can be modified to give accurate analysis. We believe that the h-likelihood would be the only method that can handle large subjects with reasonable computing time. The simulation results show that the h-likelihood gives statistically efficient estimators.

References

- [1] M.S., Noh and Y., Lee (2007) REML estimation for binary data in GLMM. *Journal of Multivariate Analysis*, 98:896-915
- [2] Rabe-Hesketh, S. and Skrondal, A.(2008) Classical latent variable models for medical research. *Statistical Methods in Medical Resrach*, in press.