

## Special Issue

# Cognitive Models in Intelligence Research

### Message from the Guest Editor

How are parameters of cognitive models related to mental abilities? Is there a hierarchical structure of model parameters reflecting both general- and domain- or content-specific abilities? Can cognitive models provide a link between neural data and intelligence test scores in terms of mediating cognitive processes as suggested by proponents of model-based cognitive neuroscience? How can the psychometric properties of model parameters be evaluated and improved? Are there best practices and practical recommendations for the application of cognitive models in individual differences research? This Special Issue invites contributions addressing conceptual or empirical questions regarding cognitive models in intelligence research. Keywords:

- cognitive models
- mathematical models
- diffusion model
- item-response theory
- factor structure
- mental speed
- working memory
- model-based cognitive neuroscience

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### Guest Editor

Prof. Dr. Anna-Lena Schubert

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### Deadline for manuscript submissions

closed (31 May 2018)



## Journal of Intelligence

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CiteScore 4.7  
Indexed in PubMed



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## About the Journal

### Message from the Editor-in-Chief

The relatively new and ambitious *Journal of Intelligence* is devoted to the study of human intelligence. Intelligence is a fundamental core of being human, with far-ranging implications for all members of our society. Now more than ever, in a world in which most have access to the Internet, information, and misinformation, with reduced face-to-face interactions, understanding how to measure and develop human intelligence is a critical and vital mission. Human intelligence is studied from many different perspectives, for different purposes, and this journal has an open policy with respect to approaches and methodologies. We encourage submissions with the potential to innovate, show alternative perspectives, and highlight the importance of developing and measuring intelligence as well as studies on intelligence that have an impact on our lives.

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### Editor-in-Chief

Prof. Dr. Con Stough  
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