

## Special Issue

# Neurocognitive Processes: Measurement, Connections to Academic Achievement and Clinical Applications

### Message from the Guest Editor

First, some researchers have argued that the relationship between intelligence and academic achievement may have been confounded by the fact that popular intelligence batteries include measures of vocabulary and mathematics in the estimation of an IQ score, which are too close to the outcome measures they aim to predict, thus creating a vicious circle. In addition, we do not know if academic achievement and neurocognitive processes are reciprocally related. A second issue that remains unclear is the influence of culture and race on these cognitive processes. Naglieri et al. (2005) have argued that the Cognitive Assessment System (the battery of tasks used to operationalize PASS processes) is culturally fair and allows us to measure students' cognitive processes that are not confounded by their language skills. However, again, little work has been conducted in this area. Finally, the clinical applications of using CAS (particularly in identifying interesting profiles of students) remain understudied. Thus, the overall goal of this Special Issue is to shed light on the PASS theory of intelligence and its clinical applications.

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### Guest Editor

Prof. George K. Georgiou  
Faculty of Education, University of Alberta, Edmonton, AB T6G 2G5,  
Canada

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### Deadline for manuscript submissions

closed (31 January 2025)



## Journal of Intelligence

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*Journal of Intelligence*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[jintelligence@mdpi.com](mailto:jintelligence@mdpi.com)

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### 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  
Centre for Human Psychopharmacology, Swinburne University of  
Technology, Hawthorn, VIC 3122, Australia

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