

Rethinking the Future of Cognitive Testing: When Tradition Meets Innovation, Technology, and Open Science

Saturday, September 13, 2025 3:30 PM (1h 30m)

Over the past few decades, neuropsychological assessment has undergone significant evolution. Traditionally based on paper-and-pencil tests administered by clinicians, the field is now embracing digital formats offering enhanced standardization, replicability, and objectivity. It is widely acknowledged that administration procedures can influence patient performance, affecting both clinical validity and research data quality. The adoption of computerized tools aims to reduce such variability by promoting controlled and neutral administration.

This symposium will explore the transition from traditional to innovative tools in neuropsychological assessment, emphasizing the enduring importance of classic instruments for clinical evaluation alongside the need for continual updating. We will highlight the necessity of new standardizations of traditional measures and examine how digital innovations can enhance accuracy and objectivity. While digitalization presents exciting opportunities, it also introduces challenges regarding data privacy, ethical considerations, and the equivalence of digital versus traditional formats.

Presentations will include a discussion of recent standardization efforts for widely used and new cognitive tests, addressing their clinical relevance for adult and elderly populations. Further the benefits and challenges of broad clinical implementation will be examined, focusing on open science, procedural standardization, ethical approvals, and privacy regulations. The symposium will conclude an overview of future directions, a showcase of a novel digital platform for cognitive assessment, integrating neuropsychological, biometric, and physiological data for a multimodal evaluation approach. Together, these contributions highlight the importance of merging traditional clinical expertise with technological innovation to enhance diagnostic precision and patient care.

If you're submitting a symposium talk, what's the symposium title?

If you're submitting a symposium, or a talk that is part of a symposium, is this a junior symposium?

Yes

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