The Assessment of the 21st Century Skills: A Measurement Perspective

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My current research
- Develop learning and assessment systems in virtual environments using web-based and mobile applications
- Develop psychometric models for the data collected from the process of displaying a particular skill/performance

Challenges & Solutions in Measuring the 21st Century Skills

- **Challenges**
  - Construct definition
  - Entangled cognitive skills and social skills
  - Domain specific vs cross-domain
  - Fair assignments of credits (for CPS skills)
  - Other factors: individual cognitive skills, personality, gender, etc.

- **Solutions**
  - Evidence about the process!
  - Process data = little “Big Data”
  - Computational psychometrics

A Research Programme for the Assessment of the 21st Century Skills

- Constructs & Frameworks
- Cognitive & Social skills
- Assessments of 21st Century Skills
- Assessment & Psychometric Design
- Technology in Delivery & Scoring
- Computational Psychometrics
- Multimodal Analytics
- Logfiles & Data Management