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AI and the Future of Learning
Expert Panel Report

While we gather attendees:

- NSF opportunity RETTL: January 25 (search “nsf 20612”)
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- Report released at [https://circls.org/reports/ai-report](https://circls.org/reports/ai-report)
AI and the Future of Learning

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Panelists

- Sidney D'Mello, University of Colorado Boulder
- Janice Gobert, Rutgers University and Apprendis
- James Lester, North Carolina State University
- Marcelo Worsley, Northwestern University

Jeremy Roschelle, Host
About the Expert Panel

- Seven hour zoom meeting over two days
- Twenty-two experts attended (see report for list)
- Opening remarks from
  - Karen Marrongelle (National Science Foundation)
  - Jake Steel (US Department of Education)
- Extensive notes and Transcripts → Report
Design Concepts

- orchestrating multiple people and resources
- augmenting human capabilities in teaching and learning
- expanding naturalistic interaction among teachers and learners
- broadening competencies that can be assessed
- revealing connections across learning contexts

*these go beyond commonplace “personalizing” or “adapting” concepts*
Two broad scenarios

Classroom Orchestration

Innovative Assessment
7 Recommendations for AI and the Future of Learning

1. Investigate AI Designs for an Expanded Range of Learning Scenarios
2. Develop AI Systems that Assist Teachers and Improve Teaching
3. Intensify and Expand Research on AI for Assessment of Learning
4. Accelerate Development of Human-Centered or Responsible AI
5. Develop Stronger Policies for Ethics and Equity
6. Inform and Involve Educational Policy Makers and Practitioners
7. Strengthen the Overall AI and Education Ecosystem

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Q&A

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