Diagnosis-based Teaching in Science and Mathematics

Chair: Elon Langbeim
Ben-Gurion University of the Negev

14:30-14:35 Opening Remarks
Dr. Talitha

14:35-15:10 Diagnosis-based “Teaching Sequences” in the Physics Classroom
M. Yarden
Weizmann Institute of Science (WIS)

Ruhama Even
WIS

15:40-16:10 From Diagnosis to Personalized Chemistry Teaching and Learning
M. Bagno and W. Bar-Ilan University

16:10-16:20 Break

Part 2
Leveraging Natural Language Processing (NLP) for Real Time Diagnosis
Chair: Yael Kali
University of Haifa

16:20-16:50 First Steps Towards AI and NLP - based Diagnostics in Blended-learning Environments for Science Teaching
M. Ariely, T. Nazaretsky, and G. Alexandron
WIS

16:50-17:30 How Can Natural Language Processing (NLP) be Used to Diagnose Student Progress - and How Do Teachers Respond?
M. C. Linn
University of California, Berkeley

Part 3
Discussion and Reflection
Chair: Edit Yerushalmi
WIS

17:30-18:15 Synthesis - Between Diagnosis, Personalization and Labeling
E. Mezuzi
Technion-Israel Institute of Technology

18:15-18:30 Reflection and Questions
M. C. Linn
University of California, Berkeley