

Artificial Intelligence in Education 2021
Utrecht, The Netherlands and Virtual
June 15, 2021

**Workshop Proceedings:
Challenges and Advances in Team Tutoring**

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Proceedings of the Challenges and Advances in Team Tutoring Workshop during the Artificial Intelligence in Education Conference, June 15th, 2021, Virtual from Utrecht, The Netherlands

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CEUR Workshop Proceedings (CEUR-WS.org)

Preface to the Challenges and Advances in Team Tutoring Workshop

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Preface

The Challenges and Advances in Team Tutoring Workshop was conducted in conjunction with the 21st Artificial Intelligence in Education Conference (AIED), which was held in Utrecht, The Netherlands and virtually in June 2021. Due to COVID-19 concerns this workshop was held virtually. The virtual format allowed highly distributed individuals to communicate in real time about their work on team tutoring in Intelligent Tutoring Systems (ITSs). There were three main themes covered during the workshop: 1) Towards ITSs for Teams in Distributed Environments, 2) Challenges and Lessons Learned in Creating ITSs for Teams, and 3) ITS based Collaborative Problem Solving and Learning. The workshop included both new work and updates on work from presenters who participated in previous Team Tutoring focused workshops at AIED 2018 and AIED 2019. The workshop included examples of team tutoring in action, lessons learned from developing team tutors, and discussion of the next steps in team tutoring research. The varied topics and team tutoring focused work that was presented during the workshop is captured in the papers in these proceedings.

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