

AI for Education at AAAI 2024

Bridging Innovation and Responsibility

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Editors: ???

This volume contains the Proceedings of the Fifth Annual Workshop on Artificial Intelligence for Education with the theme “Bridging Innovation and Responsibility”. This two-day workshop at the 38th Annual AAAI Conference was hosted in Vancouver, Canada on February 26 and 27, 2024. Co-organized by OpenStax at Rice University and leading organizations like Duolingo, Google, Adobe, Princeton University, University of California at Berkeley, University of British Columbia, University of Massachusetts at Amherst, Jinan University (China), Digital Promise, and Eedi, the workshop was a confluence of ideas, innovations, and insightful discussions aimed at harnessing AI’s power for educational advancement while navigating its ethical complexities. At the conclusion of the workshop there was consensus on the use of AI as a supportive tool for educators, highlighting the importance of community involvement, and rigorous research to assess the true impact of AI technologies on learning outcomes.

This event marked a step towards fostering a collaborative, interdisciplinary effort to ensure that AI for education is developed with equity, inclusion, and responsibility at its core. The workshop’s success laid the groundwork for ongoing dialogue and collaboration among researchers, educators, policymakers, and technologists, driving forward the responsible integration of AI in educational ecosystems worldwide. With two keynotes - Gary Marcus (scientist and popular author challenging the current limitations of AI), and Virginia Dignum (Professor of Responsible AI at Umeå University), 9 contributed talks, 31 posters, 3 panels, and over 30+ speakers the workshop created rich avenues for discourse.

All submissions were categorized into two tracks aligned with the themes of each day with day-1 highlighting innovation and day-2 highlighting responsibility in the use of AI for education. After a series of reviews, 19 full paper submissions were selected for inclusion in the Proceedings of Machine Learning Research. 15 out of the 19 papers were submitted to the day-1 track, and four to the day-2 track.

The day 1 papers highlight innovative uses of Generative AI (GenAI) to support instructional practice. The day 2 papers outline practical strategies for assessing and improving fairness, explainability, and transparency of AI in Education.

We express our sincere gratitude for the organizing committee and program committee for the success of this workshop. We thank Eedi and Google for sponsoring travel scholarships for underrepresented emerging researchers to participate in this workshop.

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