

Workshop on Machine Learning and Artificial Intelligence to Advance Earth System Science: Opportunities and Challenges

Monday 2 October 2023 15:50 (8 minutes)

This presentation briefly summarizes a workshop convened by the National Academies of Sciences, Engineering, and Medicine on February 7, 10, and 11, 2022, on the opportunities and challenges of using ML/AI to advance Earth system science, including their ethical development and use. The workshop explored how ML/AI approaches can contribute to improving understanding, analysis, modeling, prediction, and decision making. The 3 days of the workshop were organized around 3 broad themes: (1) Emerging approaches for using, interpreting, and integrating ML/AI for Earth system science; (2) Challenges and risks of using ML/AI for Earth system science; and (3) Future opportunities to accelerate progress.

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Session Classification: Lightning talk II