

CALL FOR PAPERS

ARTIFICIAL INTELLIGENCE EDUCATION: K-12, UNIVERSITIES, AND BEYOND

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Submissions due by Dec. 1, 2021

Technology and Innovation (T&I) is currently soliciting manuscripts for this special issue on the promotion of Artificial intelligence (AI) and Machine Learning (ML) education from K-12 to institutions of higher learning and beyond for a greater America and a better world. AI and ML are profoundly changing fields of research and transforming aspects of daily life.

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This paradigm shift has been widely recognized and deeply felt, bringing enormous opportunities for educational adjustments and innovations. In January 2021, the U.S. National AI Initiative Act became law as part of the [U.S. National Defense Authorization Act](#). This law establishes funding mechanisms to help K-12 and university students develop AI knowledge and skills. An increasing number of universities are adding or strengthening courses and programs on AI/ML and data sciences. These efforts will be instrumental in shaping the future workforce and changing the society fundamentally.

It is timely to address critical issues: How should we prepare K-12 students and the public for an AI-enabled future? To what degrees should the current curricula for undergraduate and graduate students be enhanced to reflect the momentum of data-driven and learning-based research? Could AI techniques be developed for AI education? How can we enhance awareness and make efforts for AI applications to be trustable, unbiased, friendly, and explainable? This special issue seeks contributions from diverse perspectives to form a dynamic picture of AI education.

We welcome submissions from interdisciplinary teams reporting on their results, including but not limited to the following areas:

- Software and learning platforms for AI education
- AI curriculum development for K-12 and university education
- Integration of AI with quantum computing, logistics, finance, and robotic and biological technologies
- Impact of technology convergence through AI
- Ethical and societal implications of AI
- Case reports and analyses of college-level AI education
- AI to improve educational quality and enhance student learning
- AI public education

Initial manuscripts should be submitted to <https://mc04.manuscriptcentral.com/naiti> by **December 1, 2021**. Instructions for authors, including journal policies, manuscript formatting information, and author forms, can be found at <https://academyofinventors.org/resources/>.

T&I is published by the National Academy of Inventors and presents information encompassing the entire field of applied sciences, with a focus on transformative technology and academic innovation, and welcomes manuscripts that meet the general criteria of significance and scientific excellence. We publish original articles in basic and applied research, critical reviews, surveys, opinions, commentaries, essays, and patent and book reviews of interest to our readers.

Papers should be submitted for review at <https://mc04.manuscriptcentral.com/naiti>. If you have any questions, please contact Jessica Coons at jcoons@academyofinventors.org.

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