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# EdTech and a new morality

Associate Professor Oana Negru-Subtirica, PhD

Self and Identity Development Lab, Department of Psychology,  
Babes-Bolyai University

[oananegru@psychology.ro](mailto:oananegru@psychology.ro)



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# Education and digitalization

*“AI is also critically reshaping the very fabric of education.” (Allen & Kendeou, 2024, p. 3)*

**Digital/AI literacy = 21st century skill**

Important at many levels of the educational ecosystem:

- Teachers
- Students
- Parents
- School leadership
- Policymakers

# AI literacy

Encompasses a set of competencies that enable us to:

- Understand how AI technologies work
- Critically evaluate them
- Use them effectively to communicate and collaborate in various contexts

# A multidimensional framework for integrating AI literacy in K-16 education

**6 key components need to be addressed:**

- 1) Knowledge
- 2) Evaluation
- 3) Collaboration
- 4) Contextualization
- 5) Autonomy
- 6) Ethics

# 1. Knowledge

**Grasping how AI technologies work and their underlying principles.**

- **Importance of prior knowledge:** shapes students' in-depth understanding of complex concepts - *foundational knowledge* about AI is a prerequisite for further engagement with it
- The learning of AI should be integrated into learning contexts in which students have domain knowledge already

## 2. Evaluation

**Developing the ability to critically judge AI technologies, considering their strengths, limitations, and potential biases.**

- Not only the assessment of AI, but of information sources as well (which is facilitated by prior knowledge in a certain field)

## 3. Collaboration

**Developing the skills needed for effective communication and collaboration with AI systems and individuals.**

- The focus on collaboration extends beyond interpersonal interaction to the interaction between humans and machines
- Students need to comprehend how collaborative activities with AI are transforming traditional practices across various domains

## 4. Contextualization

**Understanding how to use AI as a tool in real-world settings.**

- Deeper AI comprehension occurs when students can practically apply AI knowledge in various settings, such as scientific, social, or everyday scenarios
- Enables students to explore how AI functions and applies across different domains
- Vital for fostering critical thinking and problem-solving skills



## 5. Autonomy

**Developing self-determination in actions and decision-making when interacting with AI.**

- Enables students to independently make informed decisions and take responsible actions when engaging with AI
- Learning environments should encourage students to investigate and experiment with AI technologies independently

## 6. Ethics

**Recognizing and addressing moral issues related to AI technologies, including fairness, accountability, transparency, and privacy.**

- Omnipresent across AI literacy domains
- Educators play a pivotal role in instilling the significance of ethics
- Biases embedded within AI: potential to perpetuate discrimination and inequalities



## References

Allen, L. K., & Kendeou, P. (2024). ED-AI Lit: An interdisciplinary framework for AI literacy in education. *Policy Insights from the Behavioral and Brain Sciences*, *11*(1), 3–10. <https://doi.org/10.1177/23727322231220339>