

Tyli revoliucija – kaip dirbtinis intelektas keičia mokymą(si)

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DI apibrėžtys: kuo skiriasi kompiuterinė sistema nuo žmogaus?

Mąstymas ir veikimas

Ideal Approach:

Systems that think rationally



Systems that act rationally



Human Approach:

Systems that think like humans

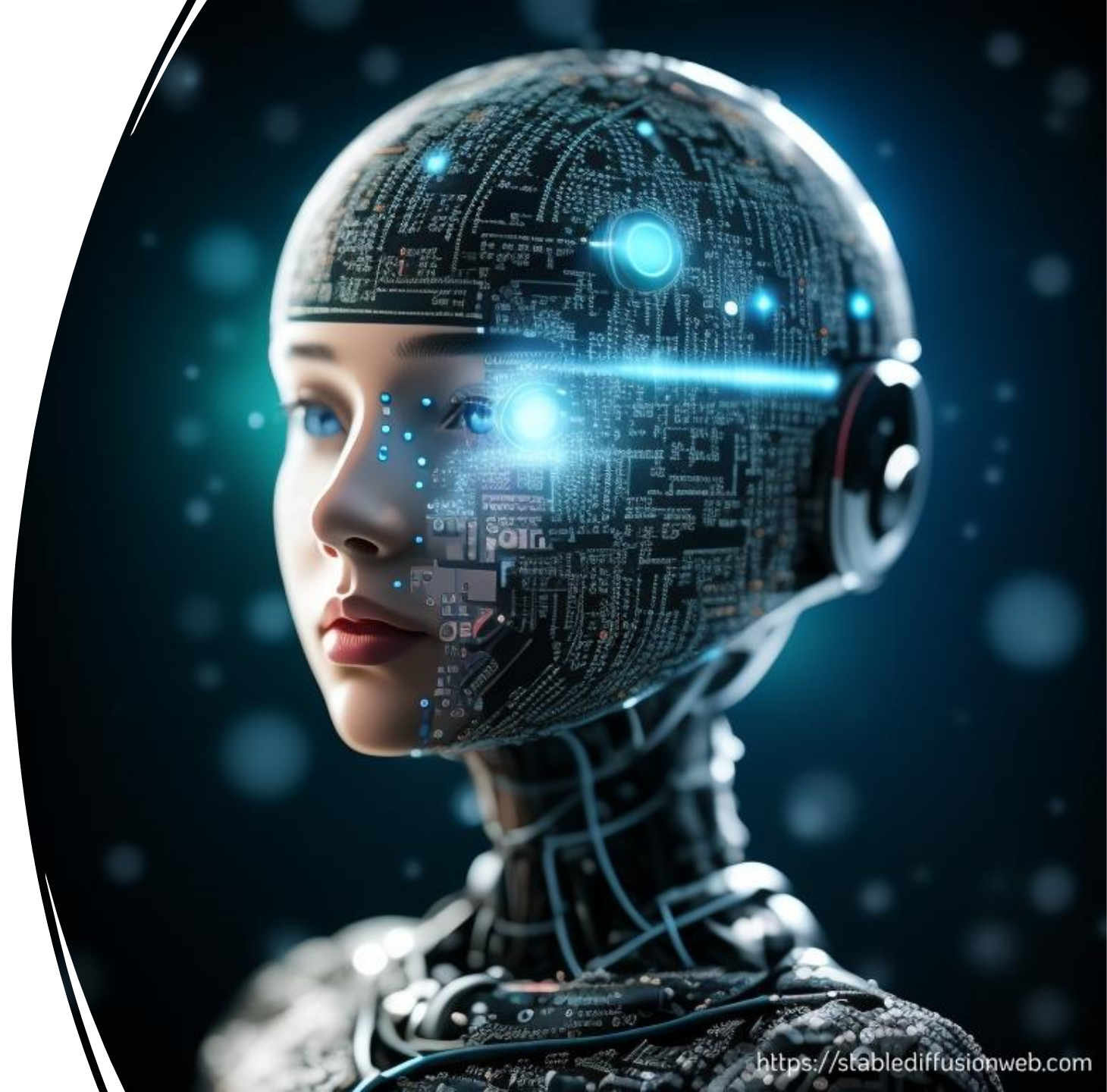


Systems that act like humans



GDI švietime

- GDI - **DI, kuris geba kurti naują, originalų turinį.**
- GDI sistemos naudoja tokius metodus kaip gilusis mokymasis, neuroniniai ar konvoliuciniai tinklai ir didieji kalbos modeliai, kad **generuotų turinį, kuris gali būti tikroviškas, kūrybiškas ar net neatskiriamas nuo žmogaus sukurto turinio**
- GDI taikomas įvairiose srityse, įskaitant natūralios kalbos apdorojimą, vaizdų generavimą ir kitus kūrybos reikalaujančius darbus, jis gali automatizuoti turinio kūrimą ir pagerinti/pagreitinti kūrybinius procesus.





Generative AI is a type of artificial intelligence (AI) that uses machine learning algorithms to create new and original content like images, videos, text, and audio.

1 Forming a Database

A neural network, consisting of various information or media files like images, text, data, sounds, etc., forms the basis of artificial intelligence.



2 Inputting a Prompt

The user provides the AI with a description or sample of the desired content...



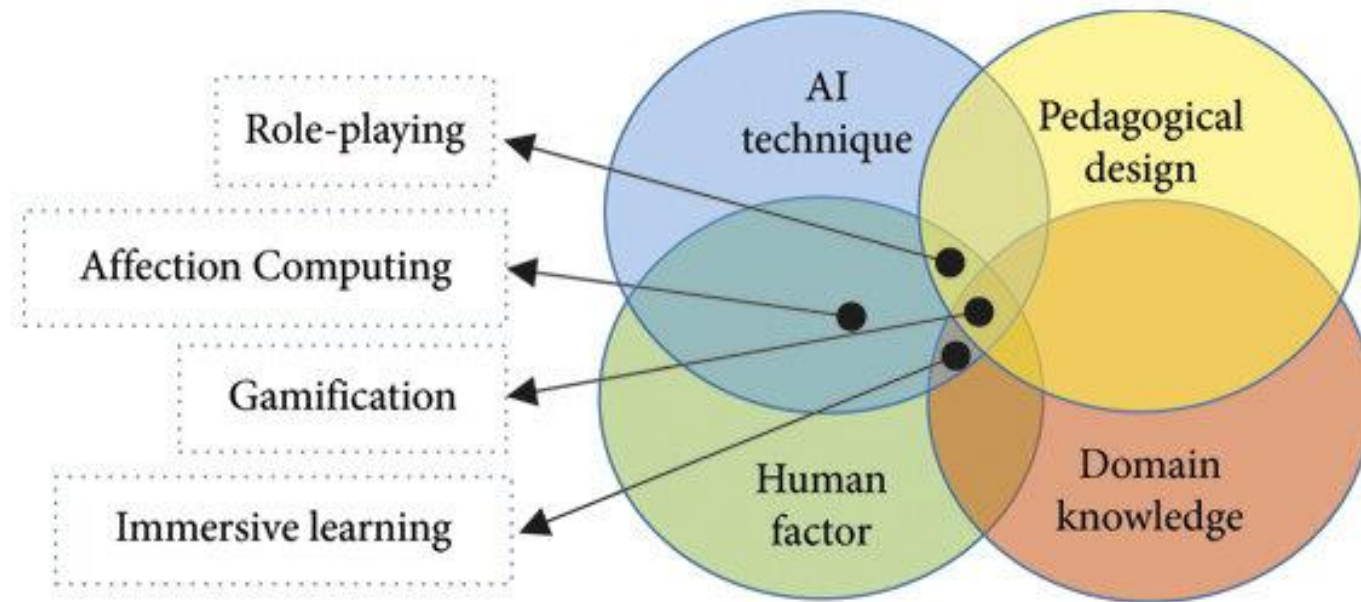
Prompts can be any user-submitted material, like words, numbers, or photos.

3 Generating Content

...and the AI uses its neural network to generate new examples that are similar to the ones it has trained from.



DI taikymo švietime dimensijos

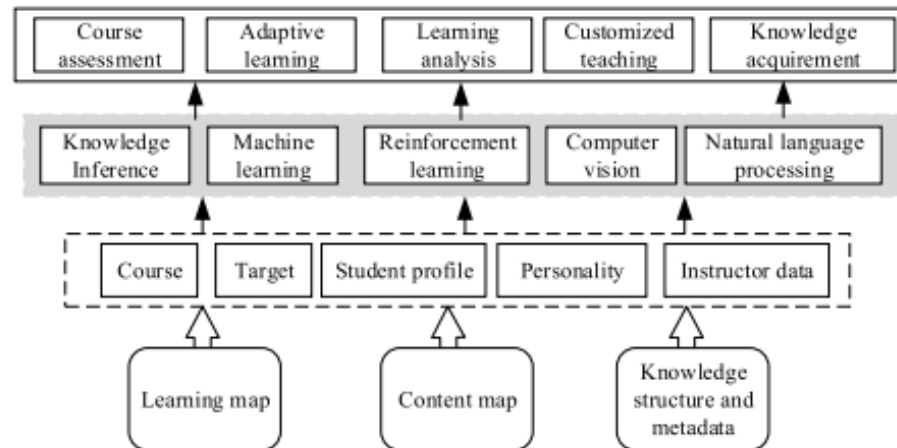


Zhai, X., Chu, X., Chai, C. S., Jong, M. S. Y., Istenic, A., Spector, M., ... & Li, Y. (2021). A Review of Artificial Intelligence (AI) in Education from 2010 to 2020. *Complexity*, 2021, 1-18.

DI taikymo švietime scenarijai

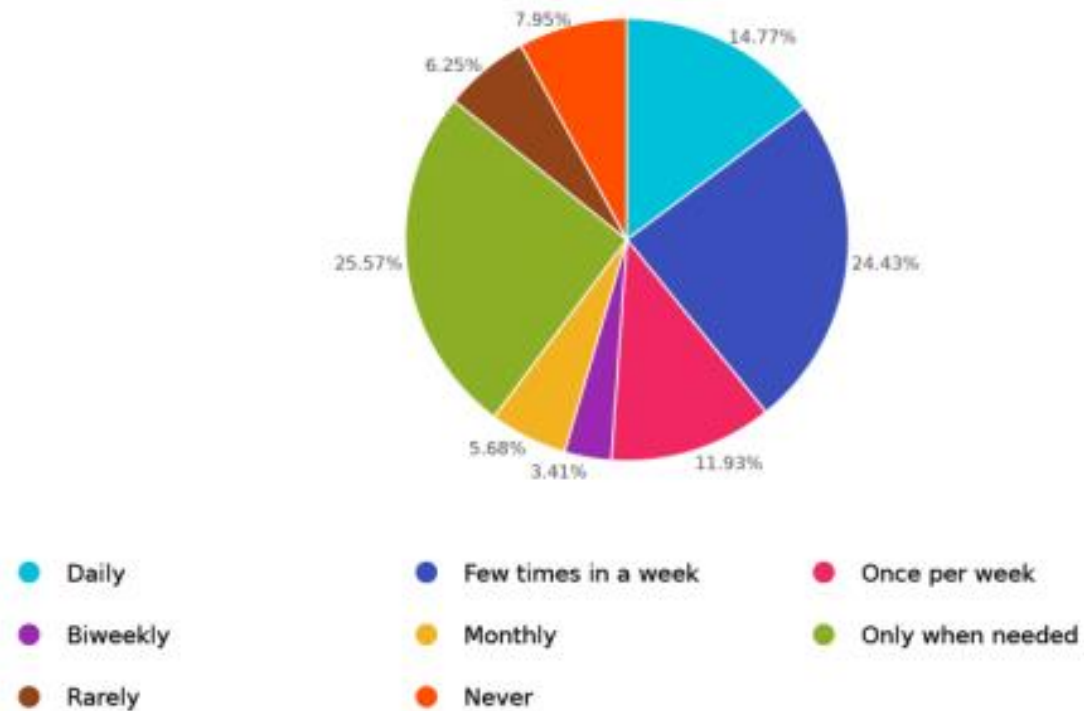
Techniques for scenarios of AI education.

Scenarios of AI education	AI-related techniques
Assessment of students and schools	Adaptive learning method and personalized learning approach, academic analytics
Grading and evaluation of paper and exams	Image recognition, computer-vision, prediction system
Personalized intelligent teaching	Data mining or Bayesian knowledge interference, intelligent teaching systems, learning analytics
Smart school	Face recognition, speech recognition, virtual labs, A/R, V/R, hearing and sensing technologies
Online and mobile remote education	Edge computing, virtual personalized assistants, real-time analysis



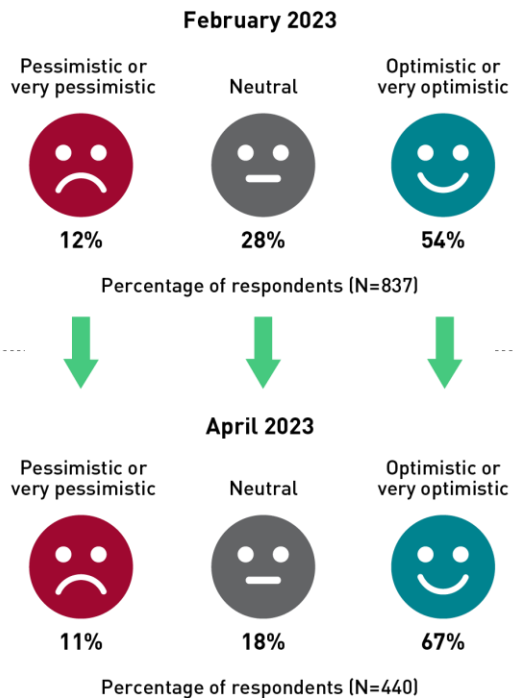
Chen, L., Chen, P., & Lin, Z. (2020). Artificial intelligence in education: A review. *Ieee Access*, 8, 75264-75278.

How often do you integrate AI in your classroom teaching?



From our ClassPoint survey, 51.13% of teachers worldwide use AI frequently in their teaching (at least once per week), and the rest do not use it on a regular basis, or only when necessary.

Požiūrio į GDI aukštajame moksle tyrimas



Statement	Disagree	Neutral	Agree
Generative AI will profoundly change higher education in the next three to five years.	4%	13%	83%
The use of generative AI in higher ed has more benefits than drawbacks.	12%	23%	65%
Generative AI will make my job easier.	17%	24%	59%
The use of generative AI in higher ed makes me nervous.	32%	23%	45%

Dreaming
Helping you think



- Brainstorming/ideation/getting unstuck
- Summarization and synthesis of complex content
- Research and analysis
- Asking questions/learning

Drudgery
Lightening your load



- Sending communications/emails
- Drafting administrative documents, materials, reports
- Reviewing and proofreading materials
- Grant, proposal, and contract writing

Design
Building your content



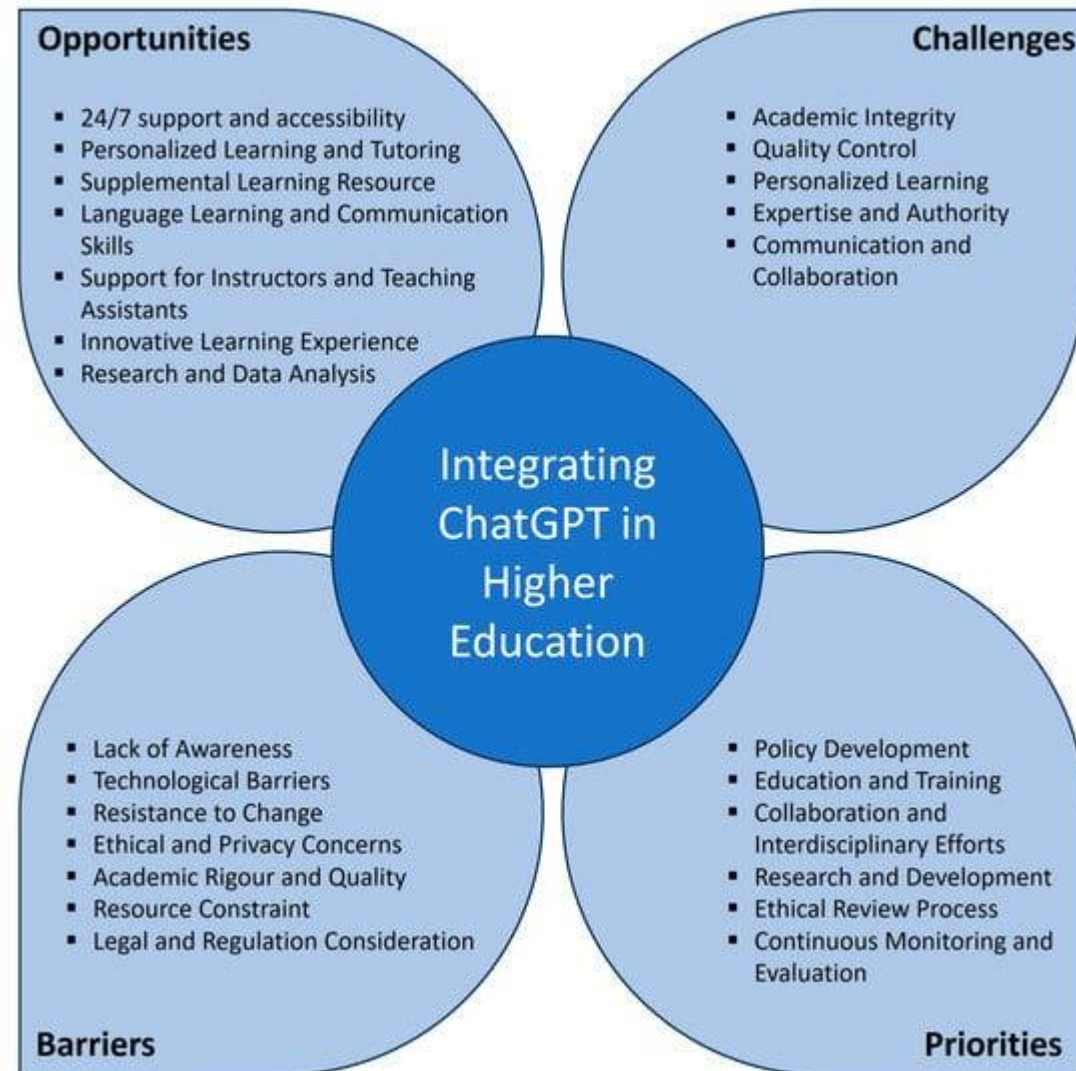
- Creating presentations, slides, and other content
- Creating course materials, exams, and syllabi
- Editing and creating images and videos
- Suggesting prompts and materials for trainings and workshops

Development
Advancing your work

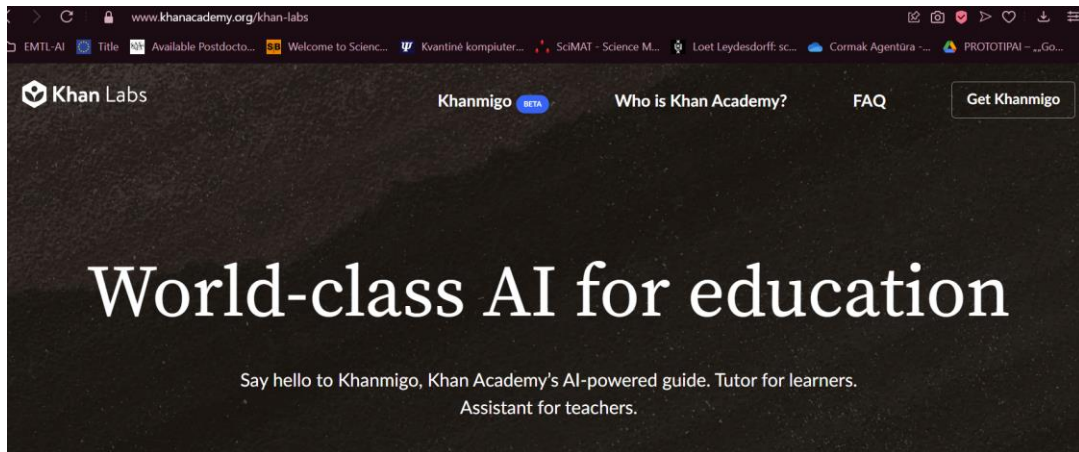





- Drafting department and institution policies
- Developing department and institution strategic plans
- Creating detailed project plans
- Offering advanced scripting and coding (e.g., complex SQL queries, Excel formulas)

McCormack (2023) Adopting and Adapting to Generative AI in Higher Ed Tech. EDUCAUSE Research notes



Michel-Villarreal, R., Vilalta-Perdomo, E., Salinas-Navarro, D. E., Thierry-Aguilera, R., & Gerardou, F. S. (2023). Challenges and Opportunities of Generative AI for Higher Education as Explained by ChatGPT. *Education Sciences*, 13(9), 856.



 **Khanmigo**  AI power 

This conversation is recorded and viewable by your parent and teacher.




Can you just tell me the answer?

It's important that you learn how to do this yourself! What do you think you need to do to multiply 2 by $5/12$?

They need the same denominator.

That's a good thought, but in this case, you don't need to find a common denominator because you're multiplying, not adding or subtracting. What else could you try?

Type message (do NOT share any personal data)

AČIŪ!

GENERATYVINIO DIRBTINIO
INTELEKTO TAIKYMO MOKYMO
IR MOKYMOSI SRITYJE
STRATEGIJŲ, SPRENDIMŲ IR
ĮRANKIŲ ANALIZĖ BEI
VERTINIMAS

LMT studentų tyrimų vasaros metu
projektas Nr. P-SV-23-188

