

What can educators and students do with AI?

101 creative ideas to use AI in education



Presenters: Sandra Abegglen & Maria Pavlopoulou

Collaborators: Chrissi Nerantzi, Marianna Karatsiori, Antonio Martínez-Arboleda

EXPLORING THE POTENTIAL OF AI IN EDUCATIONAL MEDIA PRODUCTION

Media & Learning Online Seminar, Media & Learning Association (MLA)

December 12, 2023

#creativeHE <https://creativehecommunity.wordpress.com/>

Who we are

Sandra Abegglen

Researcher
University of Calgary
Canada

Exploring online education and hybrid teaching and learning

Projects
TALON: <https://taloncloud.ca/>
Playful Hybrid Higher Education:
<https://playhybrid.education/>

Maria Pavlopoulou

MA Digital Education
University of Leeds
United Kingdom

BA Classics graduate of the National and Kapodistrian University of Athens

Co-founder of an educational social media page: [@heromathesis](#)

Chrissi Nerantzi

Professor in Creative & Open Education
University of Leeds
United Kingdom

Marianna Karatsiori

Lecturer
University of Macedonia
Greece

Antonio Martínez-Arboleda

Professor in Open & Digital Education
University of Leeds
United Kingdom

#creativeHE community

Brings creative education practitioners and students together

Offers a space for experimentation and exploration of new and unusual ideas

Co-organises events, courses and inquiries

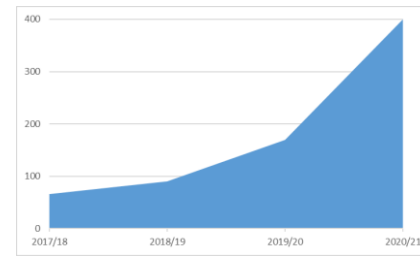
Co-creates open educational resources

Develops creative practices

Grows scholarly activities and research

Builds community and engages in peer support

Open software



100+ Creative ideas to use AI in education



A collection edited by
Chrissi Nerantzi, Antonio
Martinez-Arboleda, Marianna Karatsiori
and Sandra Abegglen

Contributors: Educators and students

Curated by #creativeHE
January to March 2023

<https://creativehecommunity.wordpress.com/2023/02/02/creating-a-collection-of-101-creative-ideas-to-use-ai-in-education/>

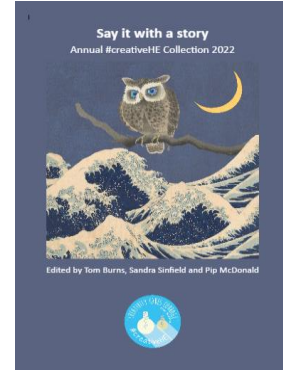


Flashcards

Books

Magazines

Annuals



by Teeroumanee Nadan

by Pip MacDonald

“Only when we care about experimentation, play, and questions more than efficiency, outcomes, and answers do we have a space that is truly open to the imagination. And where imaginations play, learning happens.”

(Thomas & Seely Brown, 2011, p. 118)

This collection represents vision; it embodies creativity. The importance of perspective and community of practice comes to life here in the breadth of examples demonstrating creative ideas to use AI in education. As we explore how we design new experiences for our learners and differentiate opportunities to engage in new ways, we have an opportunity to push our own boundaries and explore. We can collaborate, radically. This is a collection that will only grow as we shift our own practice and as we allow ourselves to experiment and iterate for a transformational student experience.

Dr Margaret Korosec

Dean of Online and Digital Education,
University of Leeds



101

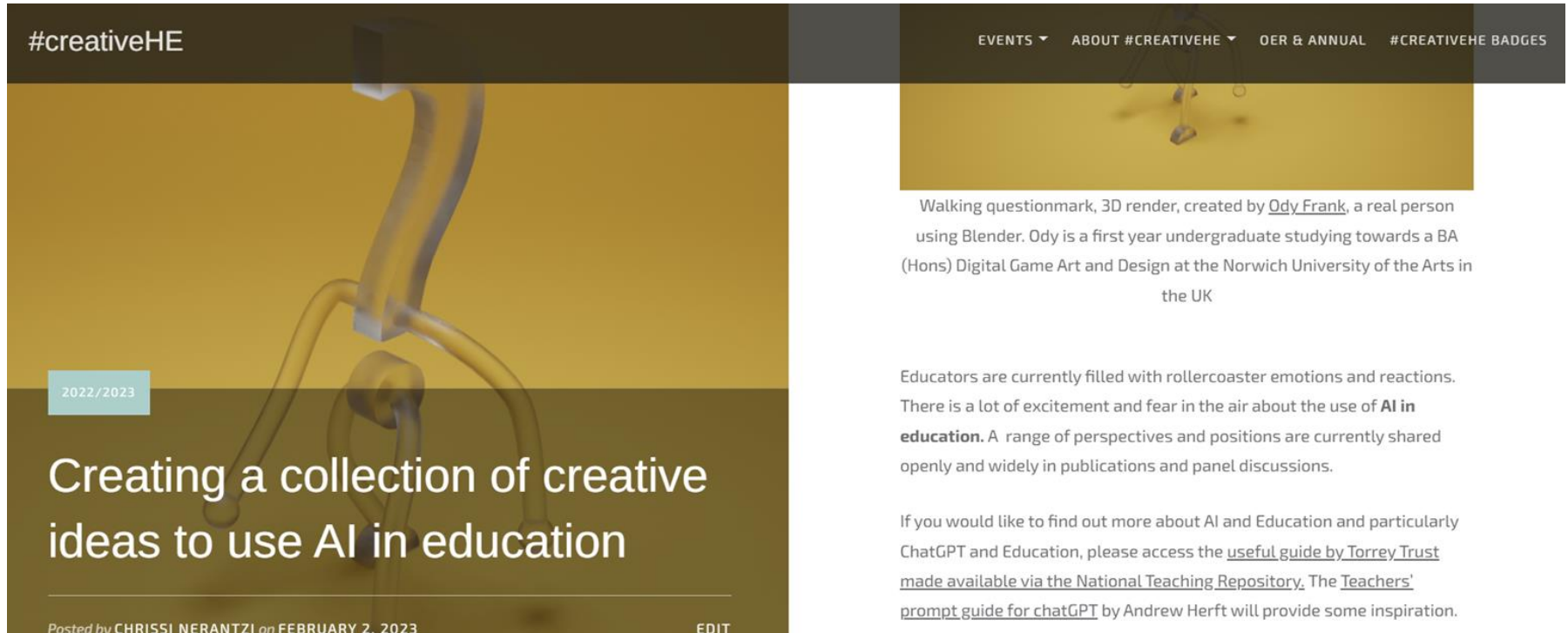
Creative ideas to use AI in education



A crowdsourced collection

Edited by Chrysi Nerantzi, Sandra Abegglen, Marianna Karatsiori & Antonio Martinez-Arboleda

The call via #creativeHE 2 February 2023, closed 31st of March 2023



The image shows a screenshot of a WordPress blog post. The top navigation bar includes the site name '#creativeHE' on the left and menu items 'EVENTS', 'ABOUT #CREATIVEHE', 'OER & ANNUAL', and '#CREATIVEHE BADGES' on the right. The main content area features a large 3D render of a walking question mark. Below the image is a teal box with the text '2022/2023'. The main title of the post is 'Creating a collection of creative ideas to use AI in education'. At the bottom of the post, it says 'Posted by CHRISLI NERANTZI on FEBRUARY 2, 2023' and 'EDIT'. To the right of the main image, there is a smaller 3D render of a walking question mark, followed by a paragraph of text: 'Walking questionmark, 3D render, created by [Ody Frank](#), a real person using Blender. Ody is a first year undergraduate studying towards a BA (Hons) Digital Game Art and Design at the Norwich University of the Arts in the UK'. Below this is another paragraph: 'Educators are currently filled with rollercoaster emotions and reactions. There is a lot of excitement and fear in the air about the use of **AI in education**. A range of perspectives and positions are currently shared openly and widely in publications and panel discussions.' The final paragraph reads: 'If you would like to find out more about AI and Education and particularly ChatGPT and Education, please access the [useful guide by Torrey Trust made available via the National Teaching Repository](#). The [Teachers' prompt guide for chatGPT](#) by Andrew Herft will provide some inspiration.'

<https://creativehecommunity.wordpress.com/2023/02/02/creating-a-collection-of-creative-ideas-to-use-ai-in-education/>

Stats

101 contributions from 18 countries:

Australia, Canada, Egypt, Germany, Greece, India, Israel, Italy, Ireland, Jordan, Liberia, Mexico, South Africa, Spain, Thailand, Turkey, United Kingdom and the US.

83 contributors (75 educators, 5 educators students, 5 researchers)

72 HE contributors and 11 non-HE contributors

100 contributions in English, 1 in Spanish

98 single authored ideas, 3 co-authored ideas (from Italy, Ireland and UK)

Accessible Design

Bushra Hashim, Student Designer,
University of Calgary

Collection designed with a diverse
readership in mind

Layout and colours so that text and
non-decorative images are legible
for a broad audience

Text and figure elements in the
correct order for screen readers

ALT text descriptions for images

Table of contents and the 101 Ideas
page colour-coded and linked to
their respective pages for easier
orientation and navigation

IV 101 Ideas

Navigating

This collection of 101 ideas are organized in a non-hierarchical structure. Ideas can be navigated by Section colour, or individually by Idea number. Idea references, when provided, can be found at the end of each section.

Click the squares to explore!

101 contributions...

- 98 individual contributions,
- 3 collaborative contributions

from 83 different authors...

- 75 educators,
- 5 educator-students,
- 3 researchers

working in various contexts...

- 72 from higher education,
- 11 from outside higher education

across 21 different countries:

Australia, Canada, China, Egypt, Germany, Greece, India, Israel, Italy, Ireland, Jordan, Liberia, Mexico, South Africa, Spain, Thailand, Turkey, United Kingdom and the US.

by Section

by Idea

References

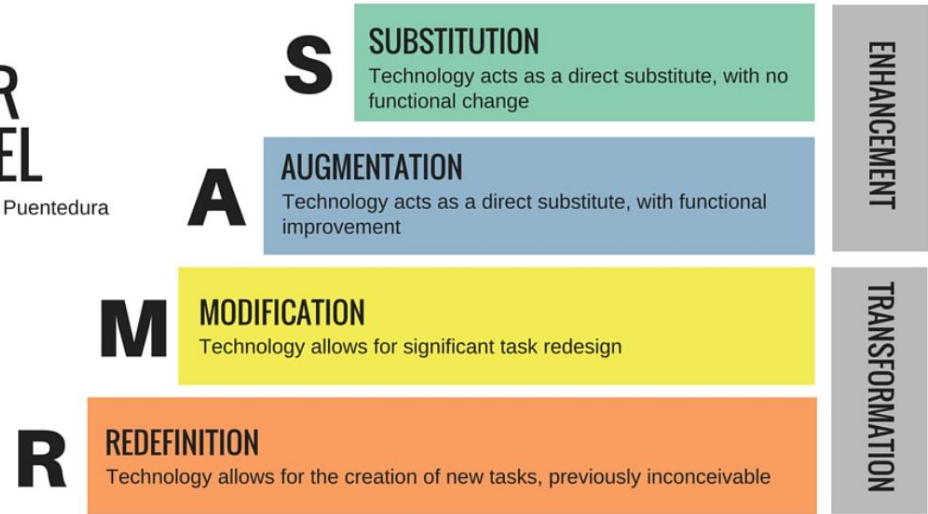
Ideas 01–10	01	02	03	04	05	06	07	08	09	10	
Ideas 11–20	11	12	13	14	15	16	17	18	19	20	
Ideas 21–30	21	22	23	24	25	26	27	28	29	30	
Ideas 31–40	31	32	33	34	35	36	37	38	39	40	
Ideas 41–50	41	42	43	44	45	46	47	48	49	50	
Ideas 51–60	51	52	53	54	55	56	57	58	59	60	
Ideas 61–70	61	62	63	64	65	66	67	68	69	70	
Ideas 71–80	71	72	73	74	75	76	77	78	79	80	
Ideas 81–90	81	82	83	84	85	86	87	88	89	90	
Ideas 91–100	91	92	93	94	95	96	97	98	99	100	
Idea 101	101										

Everyday creativity and 101 Creative Ideas

- Generation of teaching and learning resources
- Evaluating AI generated outputs - critical inquiry, developing AI literacy
- Using AI to express using words and visual media - creative experimentation
- Using AI for learning and connection - study buddy

THE SAMR MODEL

Dr. Ruben R. Puentedura



Source:

https://commons.wikimedia.org/wiki/File:The_SAMR_Model.jpg

Student Experiences & Views

AI Amplifies Perspectives: Giving Voices to Different Sides in an Academic Debate

- Debates are at the centre of research interest in Higher Education
- Highlighting different aspects of an academic topic

My assignment task

- Presenting a debate between Continuous and Distance Education - using the arguments provided by **ChatGPT-3.5** and critically appraising them

<https://youtu.be/FY8GD6uS6IA>



My idea

- Transforming this debate into a discussion, using **Neiro.ai** and **AiVOOV** (**Canva** Extensions) to create two personas and give voice to the compelling arguments of both sides
- Interesting to notice how Artificial Intelligence interprets and persuasively supports **both** arguments in contrast → **Valuable chance to vividly represent and critically approach perspectives / theories / academic debates**

Opportunities	Challenges
Reached out to professional networks and communities, also using social media and mailing lists	<ul style="list-style-type: none"> ● European-centred ● Vast majority English speaking submissions ● Vast majority of submissions from individuals working in education related roles
Slideshare open and easy to add own contribution	<ul style="list-style-type: none"> ● Formatting became problematic ● Disruptive individual(s) ● Created additional work during the design phase
Cutting-edge topic, with lots of experimentations and innovation in the education sector	<ul style="list-style-type: none"> ● Fast moving developments, with new AI tools and version updates released daily ● Tiredness because there's been so much talk about AI and ChatGPT in particular ● Hard' critics

101 Guide

Open-access & free

Chrissi Nerantzi, Sandra Abegglen, Marianna Karatsiori, & Antonio Martínez-Arboleda (Eds.). (2023). **101 creative ideas to use AI in education, A crowdsourced collection.** Zenodo.

<https://doi.org/10.5281/zenodo.8224168>

>over 16k views (November 2023)

Two new calls

Call for students

101 Creative Student Learning Outputs using AI

This call is an open invitation to Higher Education students to contribute to co-create a collection of learning outputs using AI tools such as [ChatGPT](#), [DALL-E 2](#), [Midjourney](#) and other tools.

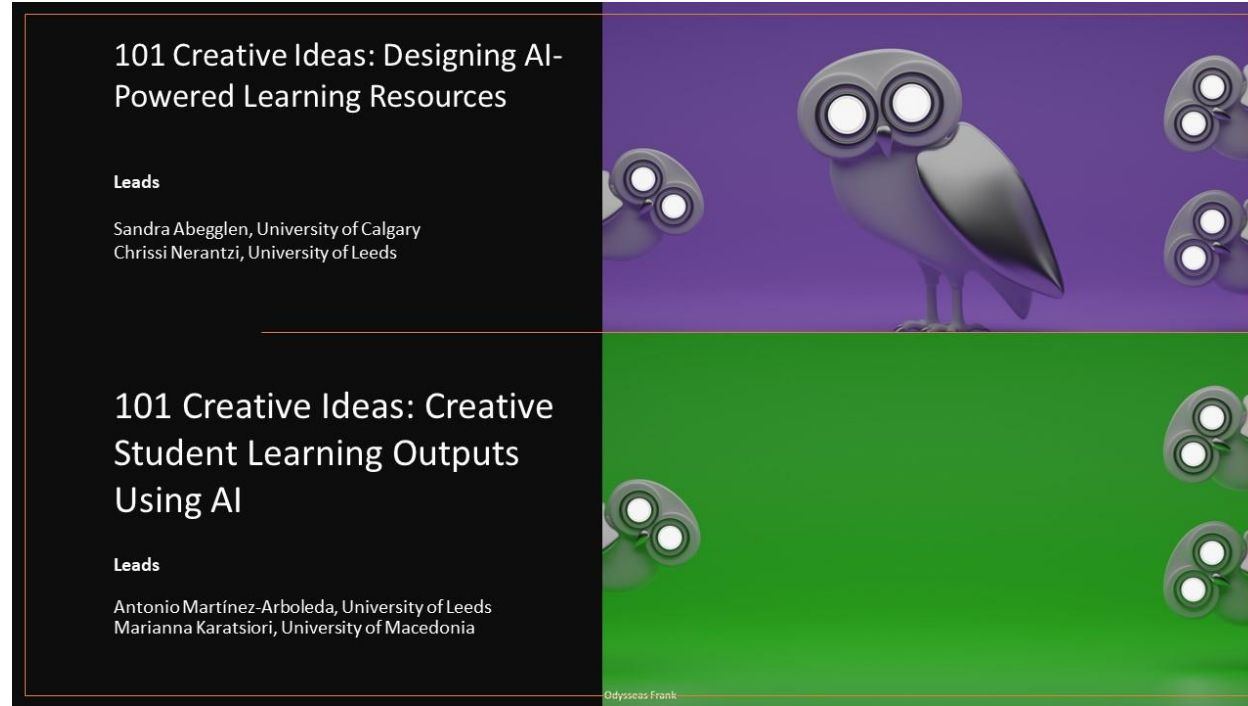
Submission (deadline 31 December 2023):
<https://creativehecommunity.wordpress.com/2023/09/07/101-creative-ideas-creative-student-learning-outputs-using-ai/>

Call for education professionals

101 Creative Ideas: Designing AI-Powered Learning Resources

This call is an open invitation to all Higher Education practitioners to put a collection of creative ideas together for designing learning resources using AI tools such as [ChatGPT](#), [DALL-E 2](#) and [Midjourney](#) and other ones in the classroom to foster student engagement, community-building and learning.

Submission (deadline 31 December 2023):
<https://creativehecommunity.wordpress.com/2023/08/31/101-creative-ideas-designing-ai-powered-learning-resources/>



Presenters

Sandra Abegglen

University of Calgary, sandra.abegglen@ucalgary.ca

Maria Pavlopoulou

University of Leeds, ed23m2p@leeds.ac.uk

Series Editors

Chrissi Nerantzi

University of Leeds, C.Nerantzi@leeds.ac.uk

Sandra Abegglen

University of Calgary, sandra.abegglen@ucalgary.ca

Marianna Karatsiori

University of Macedonia, mkaratsiori@uom.edu.gr

Antonio Martínez-Arboleda

University of Leeds, sllama@leeds.ac.uk

Design

Bushra Hashim, University of Calgary

Biography

Bozkurt, A., Xiao, J., Lambert, S., Pazurek, A., Crompton, H., Koseoglu, S., Farrow, R., Bond, M., Nerantzi, C., Honeychurch, S., Bali, M., Dron, J., Mir, K., Stewart, B., Costello, E., Mason, J., Stracke, C. M., Romero-Hall, E., Koutropoulos, A., Toquero, C. M., Singh, L. Tlili, A., Lee, K., Nichols, M., Ossiannilsson, E., Brown, M., Irvine, V., Raffaghelli, J. E., Santos-Hermosa, G Farrell, O., Adam, T., Thong, Y. L., Sani-Bozkurt, S., Sharma, R. C., Hrastinski, S., & Jandrić, P. (2023). Speculative Futures on ChatGPT and Generative Artificial Intelligence (AI): A collective reflection from the educational landscape. *Asian Journal of Distance Education*, 18(1), 53-130. <http://www.asianjde.com/ojs/index.php/AsianJDE/article/view/709>

Eaton, S. E. (2023) 6 Tenets of postplagiarism: Writing in the age of artificial intelligence. Learning, Teaching and Leadership. 25 February 2023. <https://drsaraheaton.wordpress.com/2023/02/25/6-tenets-of-postplagiarism-writing-in-the-age-of-artificial-intelligence/>

Gašević, D., Siemens, G. Sadiq, S. (2023) Empowering learners for the age of artificial intelligence. *Computers and Education: Artificial Intelligence*.<https://doi.org/10.1016/j.caeai.2023.100130>.

Nerantzi, C. & Winder, A. (2023) Lifelong-lifewide professional learning in higher education and beyond: The importance of experiencing the state of novice in a domain as a novel ideas generator in one's own profession In: Creativity @ work: From Novice to expert. Personal narratives. Creative Academic Magazine, 22, pp. 9-16, https://www.creativeacademic.uk/uploads/1/3/5/4/13542890/cam_22.pdf

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Southworth, J. Migliaccio, K. Glover, J., Glover, J., Reed, D., McCarty, C., Brendemuhl, J. and Thomas, A. (2023) Developing a model for AI Across the curriculum: Transforming the higher education landscape via innovation in AI literacy, *Computers and Education: Artificial Intelligence*, Volume 4. <https://doi.org/10.1016/j.caeai.2023.100127>.

Terada, Y. (2020, May 04). A powerful model for understanding tech integration. Edutopia. <https://www.edutopia.org/article/powerful-model-understanding-good-tech-integration/>

Thomas, D. & Seely Brown, J. (2011) A new culture of learning. Cultivating the imagination for a world of constant change. CreateSpace Independent Publishing Platform.

Zhai, X. (2022). ChatGPT user experience: Implications for education. *SSRN*. <http://dx.doi.org/10.2139/ssrn.4312418>

The image shows a screenshot of the Futurism website. At the top, the word "Futurism" is displayed in a bold, black font. Below the header is a navigation bar with a search icon on the right. A prominent banner features the text "THE FUTURE IS" in large, white, bold letters against a background of red and blue abstract lines. Below the banner, the article title "OpenAI Trembles as John Grisham Joins Lawsuit Targeting ChatGPT" is written in a large, black font. Underneath the title is a sub-headline: "It's a legal thriller come to life." A photograph of John Grisham, dressed in a dark suit and tie, pointing his right index finger towards the camera, is positioned below the text. To the right of the main text, there is a smaller version of the "THE FUTURE IS" banner. At the bottom of the page, there is a call to action: "Also read <https://futurism.com/openai-trembles-john-grisham-lawsuit-chatgpt>".

Links

Exploring 101 ideas

<https://media-and-learning.eu/subject/higher-education/exploring-101-ideas-open-book-of-early-ai-experiments-by-educators-students-and-researchers/>

AI amplifies perspectives

<https://media-and-learning.eu/subject/artificial-intelligence/ai-amplifies-perspectives-giving-voices-to-different-sides-in-an-academic-debate/>

and link to the YouTube video (also shared in my article)

<https://youtu.be/FY8GD6uS6IA?si=ebY0CV3y5b3T78u6>

101 publication

<https://doi.org/10.5281/zenodo.8355454>

Educational Professionals call: <https://creativehecommunity.wordpress.com/2023/08/31/101-creative-ideas-designing-ai-powered-learning-resources/>

Students call: <https://creativehecommunity.wordpress.com/2023/09/07/101-creative-ideas-creative-student-learning-outputs-using-ai/>

The screenshot shows a webpage from Media & Learning. The header includes the logo and navigation links: About, News, Projects, Events, SIGs, Awards, Media, and a search icon. The main content area features a large blue and yellow graphic with the text "#creativehecommunity". Below this is the article title "Exploring 101 ideas: open book of early AI experiments by educators, students, and researchers" with tags for "ARTIFICIAL INTELLIGENCE" and "HIGHER EDUCATION". The author is listed as "by Chritsi Nerantzis, Sandra Abegglen, Marianna Karatsiori, Antonio Martinez-Arboleda." The article text discusses the explosion of interest in AI in education and its potential uses. A right-hand sidebar contains a "Categories" list with counts: AR & VR (154), Artificial Intelligence (156), AV Technologies (231), Media Literacy (447), OEJMR (16), Primary & Secondary Education (217), Higher Education (276), and Lifelong Learning (114).

The screenshot shows a webpage from Media & Learning. The header includes the logo and navigation links: About, News, Projects, Events, SIGs, Awards, Media, and a search icon. The main content area features a large image of two humanoid robots in a dark setting. Below this is the article title "AI Amplifies Perspectives: Giving Voices to Different Sides in an Academic Debate" with tags for "ARTIFICIAL INTELLIGENCE" and "HIGHER EDUCATION". The author is listed as "by Maria Pavlopoulou, University of Leeds, UK." The article text discusses the integration of AI in Higher Education and its potential concerns. A right-hand sidebar contains a "Categories" list with counts: AR & VR (154), Artificial Intelligence (156), AV Technologies (231), Media Literacy (447), OEJMR (16), Primary & Secondary Education (217), Higher Education (276), and Lifelong Learning (114). At the bottom of the article, there is a quote: "What if I fall? Oh, but my darling, what if you fly?"

Summary

1. Surge in Educational AI Interest:

This year witnessed a significant upswing in interest in Generative Artificial Intelligence (GenAI) for education, encompassing teaching, learning, support, assessment, and research, with educators eagerly exploring and experimenting with emerging tools and practices.

2. Democratisation of AI:

Advances in computing power and Large Language Models, coupled with the open education movement, have made GenAI more practical and affordable. This has expanded access beyond tech giants and research institutions, allowing educators and students to actively use and engage with GenAI technologies. Yet, there are unresolved issues such as how information is harvested, used, and generated. We argue that achieving a more distributed ownership and wider community involvement is crucial for making GenAI equitable.

3. Global Collaboration in GenAI Education:

Academics from Higher Education in the UK, Canada, and Greece, part of the #creativeHE community, united to experiment with GenAI and share early explorations openly. Their collaborative effort resulted in a crowd-sourced, open-access book featuring 101 creative AI ideas in education, showcasing contributions from 18 countries.