Pedagogy Wheel for Artificial Intelligence: adaptation of Carrington's Wheel

AI IN EDUCATION

The effective integration of Artificial Intelligence (AI) in education is necessary to harness its benefits in the teaching and learning process. This article proposes the adaptation of Carrington's Pedagogy Wheel into an AI Pedagogy Wheel, aiming to provide a pedagogical framework for integrating AI in education.
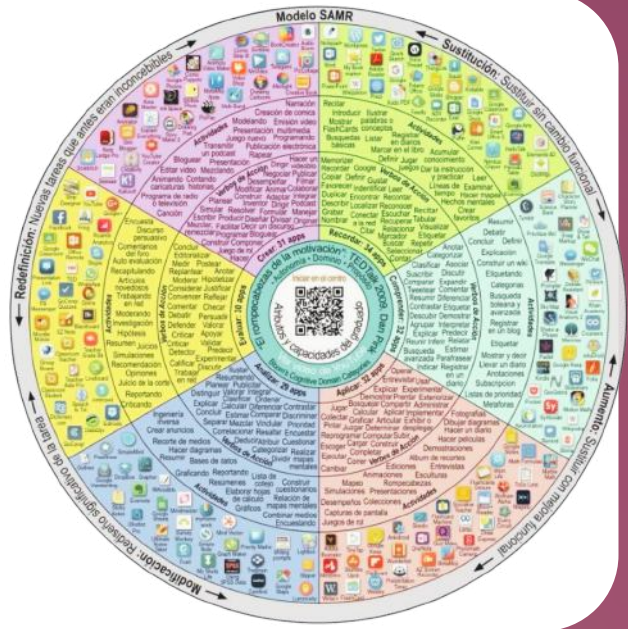

METHODOLOGY

The research methodology employed is based on a systematic review and mapping, coupled with a bibliometric study of term co-occurrence analysis, to identify relevant thematic clusters that scientifically support the need for the adaptation of the Wheel.

THE NEW WHEEL

The new wheel addresses the four obtained clusters (Integration of AI to enhance education, Use of educational technologies in the teaching and learning process, Pedagogical design and innovation, and Sustainable and Ethical Education) and presents concentric rings that explain how to gradually incorporate AI across different cognitive levels (Bloom's Taxonomy) and technological integration (SAMR Model), both adapted for AI. It includes examples of tools and applications to illustrate the implementation.
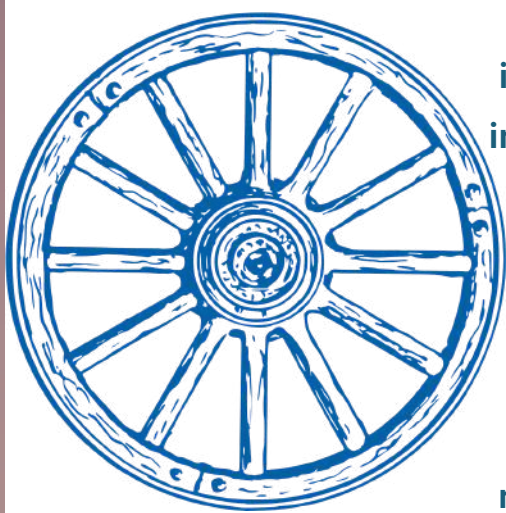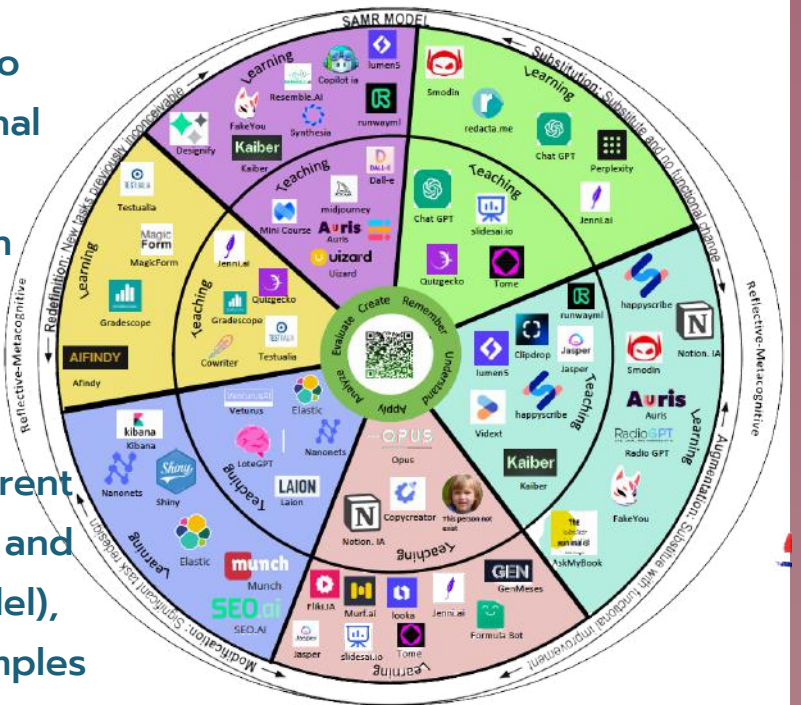
CONCLUSION

Furthermore, a Reflective-Metacognitive level is included that addresses ethics and responsibility in the use of AI. In conclusion, the wheel adapted to AI is a viable option to enhance the effectiveness and efficiency of education, provided that educators engage in the planning and execution of the teaching and learning process to ensure its success. It is worth mentioning the importance of keeping the wheel updated due to the constant emergence of new applications.