Welcome to ACSP's Parent Academy!

Today's Topic: Artificial Intelligence and the Effects on Student Engagement and Success
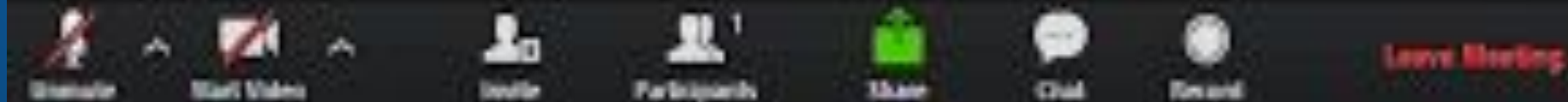March 20, 2024

Please fill out the Google Form to log your attendance for tonight's session.

Complete el formulario de Google para registrar su asistencia a la sesión de esta noche.

This session is being recorded.

Esta sesión se está grabando.

Subtítulos disponibles en español. Haga clic en el botón CC en la parte inferior de la pantalla.

Today's Goals

Define artificial intelligence (A.I.)

Understand the purpose of A.I. and how it is used

Recognize types of A.I. that are used in education

Discuss the pros and cons of A.I. in education

Session Protocols

Questions

Preguntas

Participants are asked to please refrain from calling out. There will be time at the end of the presentation to answer questions.

Se ruega a los participantes que se abstengan de interrumpir la presentación. Habrá tiempo al final de la presentación para responder preguntas.

Technology Rules

Reglas tecnológicas

Please keep your microphones muted during the presentation.

Mantenga sus micrófonos en silencio durante la presentación.

ARTIFICIAL

Based on descriptions provided by several reputable agencies such as, Harvard Graduate School of Education, the U.S. Department of Education, and Forbes.

Artificial intelligence (A.I.) allows machines to execute tasks that have traditionally required human cognition. AI-powered programs and devices can make decisions, solve problems, understand and mimic natural language and learn from unstructured data.
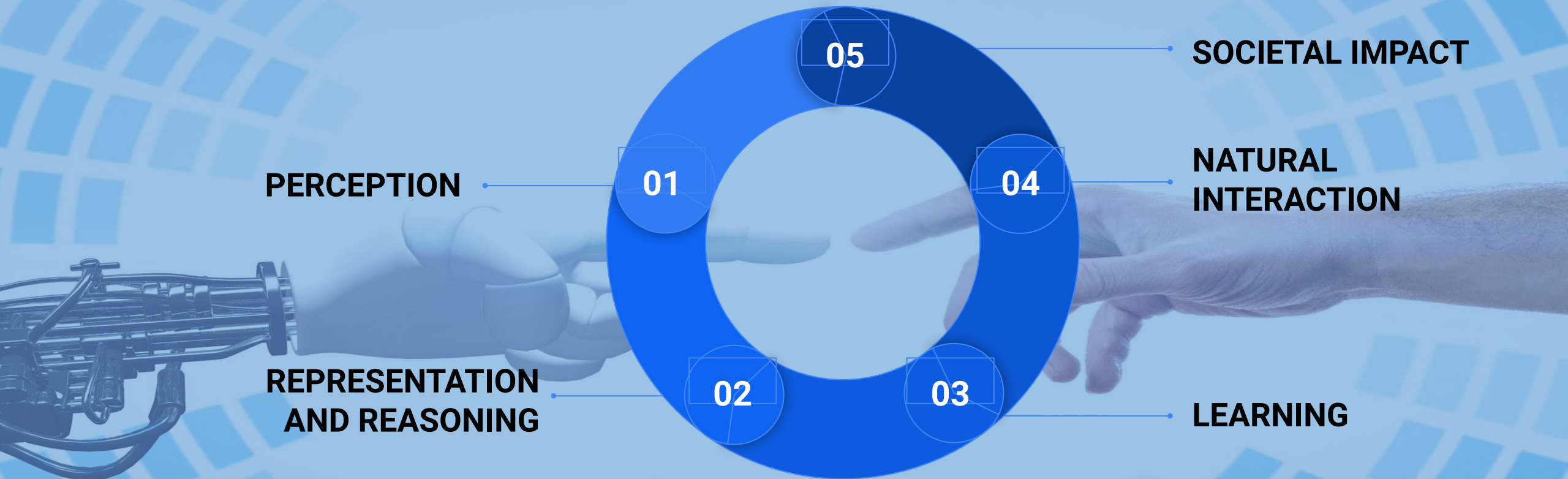
INTELLIGENCE

Educators utilize A.I. services for various tasks like grammar correction, essay writing, and trip planning. They recognize A.I.'s potential to enhance support for diverse learners, including those with disabilities and multilingual backgrounds, through features like speech recognition.

A.I.-powered educational technology offers a range of tools including games, adaptive learning platforms, chatbots, and grading systems, catering to educators, students, and administrators to provide personalized support.

Why use artificial intelligence?

Los educadores utilizan servicios de inteligencia artificial para diversas tareas, como corrección gramatical, redacción de ensayos y planificación de viajes. Reconocen el potencial de la IA para mejorar el apoyo a estudiantes diversos, incluidos aquellos con discapacidades y antecedentes multilingües, a través de funciones como el reconocimiento de voz. La tecnología educativa basada en IA ofrece una variedad de herramientas que incluyen juegos, plataformas de aprendizaje adaptativo, chatbots y sistemas de calificación, dirigidas a educadores, estudiantes y administradores para brindar soporte personalizado.

1 - PERCEPTION

Computers perceive the world using sensors.

Object ID: Human
Accuracy: 99.4%

Perception is the process of extracting meaning from sensory signals. Making computers "see" and "hear" well enough for practical use is one of the most significant achievements of A.I. to date.

Computers construct representations using data structures, and these representations support reasoning algorithms that derive new information from what is already known.

2 - REPRESENTATION & REASONING

Agents maintain representations of the world and use them for reasoning.

3 - LEARNING

Computers can learn from data.

Many areas of A.I. have progressed significantly in recent years thanks to learning algorithms that create new representations. A.I. makes inferences by finding patterns in data provided by people.

4 - NATURAL INTERACTION

Intelligent agents require many kinds of knowledge to interact naturally with humans.

Agents must be able to converse in human languages, recognize facial expressions and emotions, and draw upon knowledge of culture and social conventions to infer intentions from observed behavior.

NATURAL INTERACTION

PEPPER ROBOT
READS FEELINGS

Agents must be able to converse in human languages, recognize facial expressions and emotions, and draw upon knowledge of culture and social conventions to infer intentions from observed behavior.

5 - SOCIETAL IMPACT

AI can impact society in both positive and negative ways.

A.I. technologies are changing the ways we work, travel, communicate, and care for each other.

Types of A.I. in Education

- A.I.-Powered Educational Games (Kahoot, Quizziz)
- Adaptive Learning Platforms (IReady, Carnegie Learning)
- Automated Grading and Feedback Systems (Performance Matters, Gradecam, Mastery Connect)
- Chatbots for Student Support (Pepper, Chat GPT, Grammarly)
- Intelligent Tutoring Systems (Duolingo, Khan Academy)

Pros of A.I. in Education

★ Enables personalised learning, catering to the unique needs and pace of each student.

★ Provides interactive and immersive learning experiences.

★ Streamlines administrative tasks, freeing up valuable time for teachers to focus on instruction and student support.

★ Can be used to evaluate vast amounts of data and offer insightful information on the interests and learning styles of pupils.

★ Fosters a sense of ownership and motivation among students.

Cons of A.I. in Education

★ Potential over-reliance on A.I.-generated answers and solutions (Plagiarism, Not authentic work).

★ Built on vast datasets, and if these datasets contain biases, it can perpetuate unfairness and discrimination.

★ Provide solutions based on existing patterns, but it may lack the capacity for imagination and thinking "outside the box."

The Impact of A.I.

A cutting-edge strategy to improve student engagement at all educational levels is provided by artificial intelligence. A.I. is able to dynamically change course content, deliver real-time feedback, and assess student engagement through interactive learning techniques outside of traditional schools.

A.I. enhances teaching strategies by giving pupils a distinctive educational opportunity. Through A.I. interactions, students can access materials outside of the classroom and get new new opportunities for learning and development.

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