ARTIFICIAL INTELLIGENCE

TRANSFORM4EUROPE DOCTORAL SYMPOSIUM 2023
UNIVERSITY OF ALICANTE, SPAIN
ASSEMBLY HALL, UNIVERSITY POLYTECNIC COLLEGE
MAY 11-12, 2023

Artificial Intelligence (AI) is a branch of computer science that focuses on creating intelligent machines that can perform tasks that typically require human intelligence, such as understanding natural language, recognizing images, and making decisions. AI can be divided into two categories: Narrow or Weak AI and General or Strong AI.

Narrow or Weak AI is designed to perform specific tasks and is currently the most common form of AI. Examples of narrow AI include voice assistants like Siri or Alexa, chatbots, and self-driving cars. On the other hand, General or Strong AI refers to machines that have human-like intelligence and can perform any intellectual task that a human can do. This type of AI is still in the development stage, and there are no fully realized examples yet.

Artificial Intelligence has **numerous applications** across various fields and industries. Some of the common applications of AI are:

1. Natural Language Processing: AI-powered language models can understand and generate human language. This technology is used in chatbots, virtual assistants, and machine translation.
2. Image and Speech Recognition: AI can recognize images, faces, and objects in images and videos. It can also recognize speech and convert it into text. This technology is used in facial recognition systems, self-driving cars, and voice assistants.
3. Healthcare: AI can help doctors and researchers to analyze large amounts of medical data, assist in diagnosing diseases, and suggest personalized treatments for patients.

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4. Financial Services: AI is used in the financial industry to detect fraud, make investment decisions, and provide customer support.
5. Manufacturing: AI can improve production efficiency by optimizing the production process, detecting defects, and predicting maintenance needs.
6. Transportation: AI is used in self-driving cars, traffic management systems, and logistics optimization.
7. Education: AI can personalize learning experiences for students, automate administrative tasks, and provide feedback to teachers.
8. Entertainment: AI can be used to generate personalized recommendations for movies, music, and other forms of entertainment.

Overall, AI has the potential to transform numerous industries and improve efficiency, productivity, and the **quality of life for people**.

One example of **a narrow AI model is ChatGPT**, a language model developed by OpenAI. ChatGPT is designed to converse with users in natural language and can generate human-like responses to various prompts. It uses a large neural network that has been trained on vast amounts of text data to understand the meaning of words and sentences, and to generate appropriate responses. ChatGPT is **an example of how AI can be used to interact with humans** and provide useful services.

This summary has been generated with ChapGPT in few seconds. However, ChapGPT was created by scientist and engineers. **This is not the end, but the very beginning**. Let's present you advances in AI to the world and make your own impact. **See you in Alicante T4EU PhD Conference!**

CALL FOR POSTERS

The doctoral symposium will be organized in conjunction with the Doctoral workshop of the PhD Program of Computer Science of the University of Alicante and the main topic is **Artificial Intelligence**. It consists of poster presentations that summarize the work in progress of the PhD Students.

Each University of Transform4Europe alliance may delegate 7 doctoral students.

The size of the posters should be A1 but the structure is free no constrained with a template. Since around 70-80 posters are expected, the exhibition and presentation should be split in two days. Interaction and cooperation of all the attendees is expected.

The posters should be sent in pdf format and A1 size using the symposium Submission system **before 1st May, 2023**:

https://cvnet.cpd.ua.es/uaCuestionarios/preguntas.aspx?idcuestionario=165578&idioma=en

Doctoral symposium website: https://web.ua.es/en/phdinf/t4e/transform-for-europe-doctoral-symposium-2023.html

Contact: doctorado@iuii.ua.es

TENTATIVE AGENDA

THURSDAY 11ᵀᴴ MAY

9h: Poster placement

9.30-10h Opening: Juan Llopis (Director of Institutional Relations and Projects), Rafael Molina (Vice-Rector for Digital Transformation) (Videostreaming)

10-11h Plenary Talk: Esther Sebastian: "Birdsong recognition with ML" (Videostreaming)

11-11.30h Coffee break. Posters discussion

11.30-12.30h Plenary Talk: Nuria Oliver: "Covid crisis: Digital management Tools"(Videostreaming)

12-30-13.30h. Posters discussion

13.30h Lunch

FRIDAY 12ᵀᴴ MAY

9h30: Poster placement

10-11h Plenary Talk: Elena Lloret: "Text summarizing techniques" (Videostreaming)

11-11.30h Coffee break. Posters discussion

11.30-12.30h Plenary Talk: Stefan Thalhammer: "Robotics Vision: 6D Pose estimation" (Videostreaming)

12-30-13.30h. Posters discusión

13,30h Lunch