

April 2023

# Newsletter

Welcome to the 1st issue of the PILLAR-Robots newsletter!

The PILLAR-Robots consortium consists of 6 partners. PILLAR-Robots aims at developing a new generation of robots endowed with a higher level of autonomy, that are able to determine their own goals and establish their own strategies, creatively building on the experience acquired during their lifetime to fulfil the desires of their human designers/users in real-life application use-cases.

To this end, the project will operationalize the concept of Purpose, drawn from the cognitive sciences, to increase the autonomy and domain independence of robots during autonomous learning and, at the same time, to lead them to acquire knowledge and skills that are actually relevant for operating in target real applications. In particular, the project will develop algorithms for the acquisition of purpose by the robot, ways to bias the perceptual, motivational and decision systems of the robots' cognitive architectures towards purposes, and strategies for learning representations, skills and models that allow the execution of purpose-related deliberative and reactive decision processes.

What did you miss?

## Events News



ERF 2023

### PILLAR Robots presented at ERF 2023: European robotics' most influential event

PAL Robotics recently took part as silver sponsors in the European Robotics Forum 2023 (ERF23), held in Odense, Denmark in March 2023.

The ERF event is held annually and is one of the most influential events in the robotics community and ecosystem in Europe with over 1100 participants, and 65 sponsors and exhibitors. This year's event covered all aspects and current themes related to the field of robotics, and brought together a variety of stakeholders innovating in robotics and robotics-related AI.

Special guests at the event included His Royal Highness the Crown Prince Frederik of Denmark, and Greg Smith the President and CEO of Teradyne.

PAL Robotics hosted four workshops and participated in five additional workshops as invited speakers, to share their latest developments with an audience including researchers, engineers, business owners, and those from public funding.

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What did you miss?

## Meet the consortium



AI2Life Srl

### The uptake of the future PIMOL solutions in the agrifood practice

[AI2Life Srl](#) is a spin-off company of the Institute of Cognitive Sciences and Technologies of the National Research Council of Italy ([ISTC-CNR](#)). We are currently developing AI solutions in the specific areas of Affective computing, Autonomous robotics, Object segmentation, Wearable sensors, and Human-Robot interfaces. We also provide consultancy services relating to each phase of AI projects' lifecycle and run. In addition, in collaboration with [ISTC-CNR](#), we run the post-graduate [Advanced School in Artificial Intelligence](#), now opening the enrollment for the VI Edition, to attract talent and new skills for research and companies.

What did you miss?

## Press & Publications

[Universidade da Coruña](#)

### Publication on lifelong open-ended learning autonomy in robotics in journal "Sensors"

The article "A Perspective on Lifelong Open-Ended Learning Autonomy for Robotics through Cognitive Architectures" has been published in the journal "Sensors". The article is written by Alejandro Romero, Francisco Bellas and Richard J. Duro.

Read the full article in the [Sensors journal](#).

[Read Article](#)

What did you miss?

## Project Meetings



[Athens](#)

Meeting in Athens between the project coordinator and the Athenea-Innovation working group



[Rome](#)

Meeting in Rome between the project coordinator and the CNR working group



[Madrid](#)

Meeting in Madrid between CORESENSE and PILLAR-Robots