

# Newsletter



PILLAR ROBOTS

Pillar Robots is about increasing the *autonomy* of robots.

## Welcome to the 3rd 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.

### EVENTS

## IMOL 2023

#### Sorbonne University



The 6th Intrinsically Motivated Open-Ended Learning workshop (IMOL 2023) occurred in Sorbonne University, Paris, from the 13th to the 15th of September. The event was supported by PILLAR to foster a vibrant IMOL ecosystem.

#### University of A Coruña

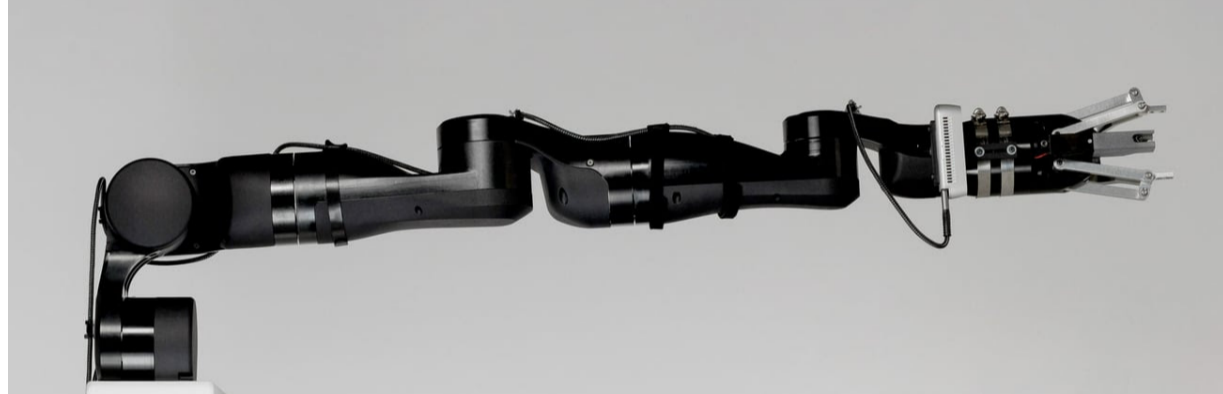


Richard Duro, coordinator of the project, gave a talk titled 'PILLAR-Robots: An Approach to Making Autonomous Robots Useful' to present the PILLAR-Robots project to the community of the Intrinsically Motivated Open-Ended Learning (IMOL 2023).

[More on IMOL 2023](#)

### PARTNER NEWS

## PAL Robotics



#### TIAGo the mobile manipulator robot in PILLAR-Robots use cases

Our partner, PAL Robotics, shares their insights on how the mobile manipulator, TIAGo, will be utilized in the project's various use cases. Discover why TIAGo has been selected as the preferred robot for this project in our most recent article:

[Visit Web Page](#)

### LEARN MORE

## Learn more about the project

[ISTC-CNR](#)

Imagine a future where robots are not just invaluable assistants, but also continuously learn and adapt with remarkable skill. PILLAR-Robots, a pioneering European initiative, strives to create autonomous agents with unmatched capabilities and intrinsic motivation, revolutionizing their ability to thrive in an ever-changing world. Learn more about the future steps of the project:

[Visit Web Page](#)

### MEET

## The Consortium

[University of A Coruña](#)

The participants from Universidade da Coruña (UDC) are affiliated with two distinguished groups: the Integrated Group for Engineering Research (GII) and the Laboratory of Research and Development in Artificial Intelligence (LIDIA) within the CITIC research center. Learn more about the consortium from the University of A Coruña in this article:

[Visit Web Page](#)

### MORE NEWS

## Paper publications

[Athena RIC](#)

Pillar-Robots partner, "Athena" Research and Innovation Center, during the summer had published a number of scientific papers that focus on our project. Have a look at them:

#### Enhancing Action Recognition in Vehicle Environments

##### With Human Pose Information

[Read the paper](#)

#### Medical Face Masks and Emotion Recognition from the Body:

##### Insights from a Deep Learning Perspective

[Read the paper](#)

Thank you for reading!