Project code: 2019-1-IT02-KA201-063073

KA201: Strategic Partnerships

for school education

RoboPisces

"innovative educational ROBOtics

strategies for PrImary School ExperienceS"

Newsletter No.7

Summary

Editorial

Dear RoboPisces friend,

the second year of the project has now ended and as the third and last year of the project is starting there are many activities that awaits teachers and students for the implementation of the advanced topics of the FISH curriculum.

The online teacher training course, which was the only available option at the time that pandemic stroke, has now grown to be a valuable tool for the development of teacher's skills. The elearning environment gathers now many resources to learn about Marine Robotics and IoT. Teachers at partner schools has already started their training at their own pace.

Each school is now provided with a RoboFISH advanced toolkit, namely the fish-like robot, that complete the toolbox of devices that support the implementation of the FISH curriculum. The set of mechatronic devices selected by the RoboPisces partners to implement activities in school is ideally divided into two subsets: one set of elements that can be easily used to implement the basic curriculum, and an advanced device (the fish-like robot) that can be used to implement the Marine Robotics branch and also IoT branch of the curriculum, especially in combination with the basic set of elements.

These great achievements of the projects have been shown to a wide variety of people around Europe receiving lots of questions, arising curiosity and enthusiasm.

On a last note, as you may have noticed the newsletters are less frequent than they used to. This is the choice of the Communication Working Group, since the social media seem to be more effective and immediate in delivering news and contents about the project. Anyway, we will keep delivering the main activities of the project on the website thanks to the newsletter section.

Stay tuned with the project progress by following our newsletters, social network accounts and web site (www.robopisces.eu), to be informed about future developments.

The RoboPisces team

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IO2: the RoboFISH toolkit

The RoboFISH basic toolkit is made of various elements. A core element is the brain of the robot: it can be re-programmed by students thanks to the dedicated visual IDE. Sensors and actuators let students realise many projects, from a simple torch to a complex robot made by recycled materials.
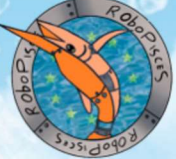
#RoboFISH_basic

The RoboFISH advanced toolkit is devoted to the development of a deep knowledge and growth of many skills, from digital skills to physics principles, from storytelling to sustainability.

It enriches the basic toolkit with its ability to engage all kind of learners in STEAM activities about marine environment.

Its integration into the classroom is ensured by a careful planning of the classroom activities: a complete scenario is provided as a reference for teachers' activities.

#RoboFISH_Advanced

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Advanced topics of the FISH curriculum

The advanced topics of the FISH curriculum will nurture the imagination of the students while carrying out meaningful activities using a powerful combination of cutting edge technology and innovative educational methodology.

IoT branch
1. The robotics things
2. Robots and sensor networks
3. Distributed actuators

Marine Robotics
1. Environments peculiarities
2. The right actuators
3. The right sensors

LTTA C2 event in dublin

Training teachers is a key point in the development of an effective strategy to bring innovative educational robotics activities into the primary school curricula. Sharing is also very important for building a better society, because meaningful experiences and quality resources should be available to everyone. These are some of the reflections stemmed from the training course that took place in Dublin.
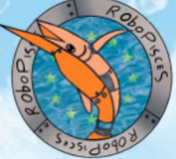
#C2@Dublin

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Summer camp at IC Solari

The FISH curriculum is a collection of the main topics to brings robotics into classroom. It can help educators to build personalised educational path and even summer activities like the ones realised at IC Solari (Loreto, Italy).

#SolariSummerCamp 😎

ICICTE 2021

ICICTE 2021 — International Conference on Information Communication Technologies in Education — Rhodes, Greece – 8 to 10 July

#ICICTE2021

During the ICICTE 2021 the Greek team presented the project's outputs and illustrated the many benefits of introducing robotics in the curriculum of primary school students.

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R^G https://www.researchgate.net/project/Innovative-educational-ROBOtics-strategies-for-PrImary-SChool-ExperienceS-RoboPisces