Project Number: 2018-1-PT01-KA203-047361

OL2A 2021
Bragança, Portugal - Hybrid event
Online: https://videoconf-colibri.zoom.us/j/83634205607
Face-to-face: Auditório Alcínio Miguel, Polytechnic Institute of Bragança
July 20, 2021

Minutes

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The International Conference on Optimization, Learning Algorithms and Applications (OL2A 2021) is focused on the challenges of optimization and learning methods and their applications. The first edition of this international conference was attended more than 100 researchers from 14 countries, both online and in person.

The conference brought together scientists and engineers and provided the international research community in optimization and learning with an opportunity to present, discuss and publish their recent research results and approaches and to develop new ideas and collaborations.

OL2A 2021 received presentations about all areas of research on optimization and learning, as well as new high-impact applications such as 4th industrial revolution, multi-objective optimization, optimization for machine learning, machine learning for optimization, optimization and learning under uncertainty and others.

The conference program featured special sessions, oral and poster sessions and also sessions for students and young researchers.

Throughout the event, a session entitled **'TiEE – Trends in Engineering Education'** focused on learning algorithms applied on education field, e-learning platforms, blended learning, among others, included the talk '**MathE - Collaborative Learning Platform using Learning Optimized Algorithms'** followed by questions and answers and debate.

In order to engage and motivate the students, it is vital to innovate pedagogical methodologies and improve the quality of lessons that are usually taught in a conventional manner.

The MathE platform aims to provide all agents of the higher education teaching system with an opportunity to reinvent some aspects o teaching and learning, offering them the possibility of building individual study pathways, tailored to the specific skills and features of each student, allowing each of them to manage their learning.

As a free personalised tool for distance learning or complement tradicional classroom lessons, MathE contributes to improve distance learning and suplement live instruction, helping to reduce dropoutrates in higher education and enabling empowering, equity-focused alternatives to students who are somehow marginalized, either by race, income, language, country and other factors. Considering that ICT tools

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influence the development of teaching and learning processes by promoting innovative pedagogical actions and creating new learning environments, through proper self assessment, intelligent tutoring systems (ITS) can support the students to perform better and bring satistaction and fullfilment.

After the event, additional lecturers registered in the platform.

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