

PREVENT

Prevention of natural disasters using deep technology for advanced HEI curricula

PREVENT aims to harness the potential of deep tech systems for environmental applications. The project also seeks to introduce new modules and enhance existing ones in engineering undergraduate programs in higher education (HE). These modules focus on technologies related to the prevention of natural disasters and the utilization of sensor networks for real-time data collection. This data is then processed by centrally implemented artificial intelligence algorithms to optimize conditions and/or prevent or rectify disasters.



Project Updates

Transnational Partners' Meeting in Cyprus in February 2024

Researched deep tech resources in HE to identify shortages.

All partners conducted interviews and focus group with experts to identify labor market shortages.

Begun the skeleton of the Pedagogical Guide.

All our social media are live!





Project Updates

Transnational Partners' Meeting in Cyprus February 2024

The kick-off (TPM1) meeting was held on the 16-17 of February at the CIP Impact Hub in the heart of Nicosia. Partners discussed:

1. The general structure off the project and the responsibilities of each partner.
2. Scheduled specific deadlines for upcoming activities.
3. Discussed Social media and website management.



PREVENT's Research Results on Deep Tech

The research conducted as part of PREVENT has yielded significant insights into the integration of deep technologies within higher education curricula, particularly focusing on their application in preventing natural disasters.

Utilization of deep technologies for mitigating the impact of natural disasters:

- Machine learning and artificial intelligence
- Unmanned aerial vehicles (UAVs)
- Computer vision
- Communication technologies and IoT

Methodologies and tools for teaching deep technologies

1. Simulation-based learning
2. AI chatbots
3. Gamification
4. Blended learning/flipped classroom
5. Virtual reality
6. Life-long learning/constructivism
7. Facilitation/group work

- Blockchain
- Data mining
- Robotics
- Big data analysis

Interviews and Focus Groups with Experts

Through interviews and focus groups conducted, valuable insights were gained regarding the integration of deep technologies into higher education curricula for the prevention of natural disasters. These activities involved engaging with experts from various fields, including computer science, data engineering, artificial intelligence, and research centers, to identify curriculum gaps, raise awareness about deep technologies, and understand industry needs. The discussions facilitated the identification of shortages in existing undergraduate programs and helped in formulating strategies to develop courses aligned with market demands. Additionally, these interactions contributed to the compilation of best practices and practical educational material, laying the groundwork for the development of the Pedagogical Guide.



PREVENT Focus Groups



The Skeleton of the Pedagogical Guide

The creation of the skeleton of the Pedagogical Guide has commenced, outlining theoretical and practical educational material about deep technologies and their contribution to the prevention of natural disasters. The Pedagogical Guide serves as a comprehensive resource for educators, providing guidelines and methodologies for delivering interdisciplinary courses on deep technologies in higher education settings.

Social Media and Website are LIVE!

We are delighted to announce that all our social media platforms, as well as our website, are now live! We invite you to connect with us on social media and explore our website for the latest updates, resources, and information about the PREVENT project.



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Keep Updated Through our Website



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