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AI for New Devices And Technologies at the Edge

D6.15 Newsletter V3

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Abstract (Published Summary)

This document contains the description of the third ANDANTE newsletter, as published on the ANDANTE Web site at: <https://www.andante-ai.eu/newsletters/>

The project newsletters constitute, together with the project's website, an important communication channel with ANDANTE's stakeholders and public interest. ANDANTE newsletters are intended to be informative documents describing the most relevant aspects, activities and results generated throughout the project.

This third newsletter “**Achievements towards next-gen EDGE AI solutions**” mainly aims to providing an overview of the developments carried out for 4 use cases in the ANDANTE project and a summary of the 3rd AI benchmarking workshop organized by ANDANTE as part of the HiPEAC conference.

- **Reducing pesticide use with an autonomous system for automated vegetable weeding.**

To reduce the use of chemical pesticides, and its negative impact, in the agriculture for the weeding operation, a mechanical weeding system is presented here as the use case 2.1 of the ANDANTE project.

- **Acoustic signal classification for marine mammal sounds or echoes of the ocean.**

The ANDANTE 3.2 use case is dedicated to the classification of underwater acoustic signals onboard an ALSEMAR SeaExplorer, underwater drone, for which ultra-low power consumption, embedded signal processing and AI are essential.

- **Consumer auditory processing.**

SynSense develops real-time audio processing and monitoring use-cases for smart-home and battery-powered environments. These solutions enable the deployment of ultra-low power audio processing applications on consumer devices.

- **Seamless integration of brain-inspired AI processing; Yes, we can!**

Until recently, brain-inspired AI processing did not reach mainstream products. The ANDANTE project shows how the hurdles to adoption of brain-inspired AI processing can be overcome.

- **Third Edge AI Benchmarking Workshop co-organized by ANDANTE project.**

ANDANTE held its third benchmarking workshop as part of the “International Workshop on High Performance, Edge And Cloud computing (HiPEAC)”, on the 17th of January 2024, in Munich, Germany.