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Talk: Edge Machine Learning for AI-Enabled IoT Devices

Abstract:

In a few years, the world will be populated by billions of connected devices that will be placed in our homes, cities, vehicles and industries. The devices, with limited resources, will interact with their surroundings and users. Many of these devices will rely on machine learning models to decode the meaning and behavior of sensor data in order to make accurate predictions and decisions. The bottleneck will be the large number of connected objects that may congest the network. Hence the need to incorporate intelligence into end devices using machine learning algorithms. Implementing machine learning on such edge devices improves network congestion by allowing computations to be performed close to the data sources. The objective of this talk is to provide a review of the main techniques that ensure the execution of machine learning models on low-performance hardware in the Internet of Things paradigm, paving the way for the Internet of Things aware.

Event for collaboration: Innovative Research in the Mediterranean: UNIRC's Projects and Collaboration Prospects - further discussion with participants

Abstract:

This talk will showcase the research activities taking place in the Mediterranean, with a particular focus on the exciting projects and collaboration prospects available at the University "Mediterranea" of Reggio Calabria (UNIRC). The Mediterranean region has long been known for its rich history, culture, and strategic location, but it is also a hub of scientific and technological advancement. During this talk, we will explore the various research projects underway at UNIRC, including cutting-edge work in the fields of electronics engineering and computer science. We will discuss the potential for collaboration with other institutions and organizations in the region, considering the many opportunities available for researchers and scientists interested in making a positive impact on the world.

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Seminar

Marmara University
Faculty of Engineering
Aydınevler-Maltepe
M4- 113
22.05.2023 Monday
15:00-17:00
23.05.2023 Tuesday
12:20-15:00