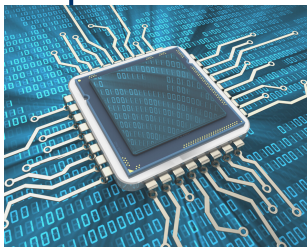


Embedded AI for Industry

SUMMER SCHOOL

6 - 8 SEPTEMBER 2023



PROGRAMME

This 3-day summer school offers a unique platform for AI-professionals to gain knowledge and practical skills concerning the latest developments in embedded AI and its applications.

Practical details

The sessions are scheduled at KU Leuven Campus Brugge (Sporwegstraat 12, 8200 Brugge), on 6, 7 and 8 September 2023. Because of the hands-on character of the training, the number of participants is limited to 20.

Enrollment

Register before 30 August via puc.kuleuven.be. The fee for the series is 1.800 euro. From the second participant of the same organisation, a discount of 20% is applied. After registration, you will automatically receive the invoice for your participation.

Postuniversitair Centrum

KU Leuven Campus Kulak Kortrijk
E. Sabbelaan 53 bus 7643 - 8500 Kortrijk
+32 56 24 61 84 - puc@kuleuven.be
puc.kuleuven.be

SESSION 1 - INTRODUCTION

6 SEPTEMBER 2023 - PROF. MATHIAS VERBEKE
introduction to machine learning | deep learning |
embedded machine learning | use cases | company pitches

SESSION 2 - WORKSHOP "EDGE IMPULSE"

6 SEPTEMBER 2023 - DR. JONAS LANNOO
use case | Edge Impulse | quickly train a neural network
and place the result on a microcontroller or edge device

SESSION 3 & 4 - OPTIMIZATION OF CNNs & WORKSHOP "TENSORFLOW LITE"

7 SEPTEMBER 2023 -
PROF. TOON GOEDEMEÉ & PROF. PETER KARSMAKERS
weight & activation quantisation | layer fusion | pruning |
hardware-friendly neural networks | workshop Tensorflow
Lite | ESP-EYE controller

SESSION 5 - WORKSHOP FPGA

8 SEPTEMBER 2023 -
DRS. LAURENS LEJEUNE & WOUTER HELLEMANS
accelerate CNNs | network security | Field Programmable
Gate Arrays | open source libraries

SESSION 6 - DISTRIBUTED AI

8 SEPTEMBER 2023 - PROF. HANS HALLEZ
edge computing | big data | scaling and distributing of AI
algorithms | wrap-up with lessons learned and drink

By enrolling, I agree that the contact information I provide will be used to contact me in the context of this training and for any useful follow-up.