# 9<sup>th</sup> International Workshop on Microsystems

Alexander Campus, International Hellenic University, 11 December 2024

# Preliminary Programme



## **Preliminary Programme**

#### 08:45-09:00: Registration

Please check-in or register at the front desk.

#### 09:00-09:15: Welcome and introduction

#### 09:15-11:00: First Oral Session (Session Chair: Vasilis F. Pavlidis, AUTH)

09:15-10:00: FPGA Acceleration for Vision-Based Navigation in Space Applications: Algorithms & Use Cases, *D. Soudris, National Technical University of Athens, Greece* 23WOM-01 (Invited)

10:00-10:30: PeakSat OBC design & Environmental Testing Results. *I. Tatsoglou, P. Vamvakas, K. Andronikos, Th. Mpalsis and V. P. Moustakas, Spacedot Ltd*, 24WOM-02 (Invited)

10:30-10:45: Energy-Efficient FPGA Framework for Non-Quantized Convolutional Neural Networks, A. Athanasiadis, N. Tampouratzis, I. Papaefstathiou, 24WOM-03

10:45-11:00: Smart-Irrigation Monitoring System using IoT Technology, G. Xenofontos, Ch. Koumides, K. Tsiakmakis, A. T. Hatzopoulos and M. S. Papadopoulou, 24WOM-04

### 11:00-11:30: Coffee Break and Poster Session (Session Chair: To be confirmed)

P1. Analyzing Trends and Focus Areas in Neuromodulation Research, M. Michailidou, Ch. Inglezos and E. Rouka, 24WOM-05 (withdrawn)

P2. Study of Vegetation Health Indicators: GNDVI and Leaf Area Index in Precision Agriculture Applications, D. Liamos, K. Tsiakmakis, A. T. Hatzopoulos, V. Vassios and M. Papadopoulou, 24WOM-06

P3. The geometry of smart building blocks and its programming, J. Nikolaides, 24WOM-07

#### 11:30-12:45: Second Oral Session (Session Chair: Eirini Aivazidou, IHU)

11:30-12:00: Micro-Electro-Mechanical Systems for high frequency implementations, *L. Michalas*, 24WOM-08 (Invited)

12:00-12:15: Development of a Data Acquisition and Data Logging Platform, V. Terzis and N. Tapoglou, 24WOM-09

12:15:-12:30: Acoustic Power Transfer Through Solid Surfaces, *I. Kochliaridis and M. E. Kiziroglou*, 24WOM-10

12:30-12:45: Emerging Technologies for Effective Humanitarian Crisis Management, A. Ntabizas, M. Drakaki and P. Tzionas, 24WOM-11

...Continued overleaf!

### 12:45-13:00: Best Paper Award by Ioannidis Electronics.

#### 13:15 Third Oral Session (Session Chairs: Th. Kosmanis and D. Tziourtzioumis, IHU)

13:15-13:30: Development of a data acquisition system for underwater environmental measurements, *A. Antoniadou, Th. Kosmanis and D. Tziourtzioumis*, 24WOM-12

13:30-13:45 Design and construction of a data recording system for the powertrain of an electric vehicle, *A. Kyriazopoulou, Th. Kosmanis and D. Tziourtzioumis*, 24WOM-13

13:45-14:00 Design and construction of a data acquisition device for a gasoline internal combustion engine management system, *E. Meimaroglou*, *D. Tziourtzioumis and Th. Kosmanis*, 24WOM-14

14:00-14:15 Implementation of a single beam echosounder sonar for the generation of bythometric maps, *K. M. Soulaki, D. Tziourtzioumis and Th. Kosmanis*, 24WOM-15