8th International Workshop on Microsystems

Alexander Campus, International Hellenic University, 20 December 2023



Workshop Proceedings

Programme

08:45-09:00: Registration

Please check-in or register at the front desk.

09:00-09:05: Welcome and introduction

09:05-10:45: First Oral Session (Session Chair: Eirini Aivazidou, IHU)

09:05-10:00: Designing LiNbO₃ lead free-materials for energy harvesting with stable performances, *Samuel Margueron, Femto-ST, France,* 23WOM-01 (Keynote, Invited)

10:00 Hybrid Deep Learning Models for Predictive Maintenance. *G. Koutsoudakis and Ch. Moutafidis*, *Smiling Machines Ltd*, 23WOM-02

10:15: Pseudo-Random Number Generator Implementation with Linear Feed Shift Register Circuits at Distinct Clock Frequencies, S. Tsioupros, E. Sidiroglou, G. Vellios, I. Intzes and D. Papakostas, 23WOM-03

10:30: Soil Electrical Conductivity Measurement, E. Teletos, K. Tsiakmakis and A. T. Hatzopoulos, 23WOM-04

10:45-11:15: Coffee Break and Poster Session (Session Chair: To be confirmed)

- P1. VR Training Application for AR-Assisted Logistics Operations, V. C. Vasileiou, D. Bechtsis, V. Sidiropoulos and D. Vlachos, 23WOM-05.
- P2. Is Warm-Up Necessary? Instrument Performance Verification Test, V. D Vassios., A. T. Hatzopoulos, K. Tsiakmakis and M. S. Papadopoulou, 23WOM-06
- P3. Theoretical Model of Acoustic Power Transfer through solids, *I. Kochliaridis and M. E. Kiziroglou*, 23WOM-07
- P4. Development of a Customized Prototyping board for the PN7160 Near Field Communication Microchip, *A. Chatzimpaloglou and M. E. Kiziroglou*, 23WOM-08

11:15-12:15: Second Oral Session (Session Chair: Argyris Hatzopoulos, IHU)

11:15-12:00: Triboelectric energy harvesting for autonomous electronic devices, *C. Tsamis*, 23WOM-09 (Keynote, Invited).

12:00: Further Evaluation and Calibration of a Mie Scattering-based Apparatus for Portable Optical Haematological Analysis, *A. Bantis, M. Michailidou and A. Dziuba*, 23WOM-10.

12:15: Remotely Operated Vehicles as a Means of Training Higher education Students in Underwater Surveying, *T. Anagnostaki*, *D. Tziourtzioumis and Th. Kosmanis*, 23WOM-11

12:30: Utilization of fermentable biomass for bioethanol production and design of sustainable modular energy storage liquid fuel unit, *D. A. Koumpakis and D. Tziourtzioumis*, 23WOM-12.

...Continued overleaf!

12:45-13:15: Best Paper Award by Ioannidis Electronics. Concluding remarks.

13:30 Third Oral Session: Erasmus Perspectives in Primary and Secondary Education

(Session Chair: Dr. Theodoros Kosmanis, IHU. Session Co-Chairs: Dr. Dimistrios Tziourtzioumis, IHU, Dr. Vagia Papanikolaou, IHU)

13:30: Green Spark, D. Kapousizi, K. Kantela, F. Karra, Z. Lagouda, I. Mindis, A. Nella and A. Paliatsou, 23WOM-13

13:45 Design Thinking, I. Karzi, M. Kotopoulou, I. Kotsani, I. Kouda, D. Kouia and E. Krokida, 23WOM-14

14:00 Epi-STEAM-moniko School, A. Kontaxi, N. Ch. Kouderis, V. Leliopoulos, E. Liontou. G. Mpantias and K. Nenos, 23WOM-15

14:15 Smart Recycling, F. Iosifidou, A. Toka and E. Zarogiannou, 23WOM-16

14:30 Make it Gree, V. M. Kolla, G..Gala, M. Zioga, E. Kostoula, K. Louka, N. Terzis and E. Tzouna, 23WOM-17

14:45 Music Mode, K. Nteni, 23WOM-18