CONFERENCE PROGRAM

Friday November 4th

Micro&Nano 2022: OPENING

14:00	Welcome Coffee & Registrations	
14:30	Opening	
14:45	Strain Engineering in 2D material based transistors	**Parthenios John** **Plenary Talk**

15:15 - 16:15 Electronic Devices I

Chair: **Tsoukalas Dimitrios**

15:15	Active Load Inverter Design based on FORTH FET technology based on bilayer MoS2	Papadopoulou Alexia
15:30	Overview of Total Ionizing Dose Degradation Mechanisms as Observed in 65nm Bulk-CMOS MOSTs	Chevas Loukas
15:45	Behavior of InGaAs MOSFET short channel effects down to deep cryogenic conditions	Theodorou Christoforos
16:00	Nonlinear analysis of electric current noise in nano-MOSFETs using Visibility Graphs	Antoniades Ioannis

F1

16:15 - 16:35 Announcement

16:15	Chips Act	**Gongolidis Vasileios (online)**

16:35 - 16:50 Coffee Break

16:50 - 18:20 Sensors and Actuators

Chair: **Tsamis Christos**

F2

16:50	Intermodulation phenomena in MEMS capacitors operating in Field Emission and Townsend breakdown regimes	Papaioannou George
17:05	Flexible microheaters utilizing a combination of screen printing and inkjet printing technologies	Apostolakis Apostolos
17:20	Flexible graphene field effect transistors as strain sensors	Katirtsidis Alexandros
17:35	Heavy Metal Ion Detection using monolayer MoS2 based and Pt nanoparticle based biosensors	Tsoukalas Dimitrios
17:50	Temperature and Strain evaluation of screen-printed Ag and Carbon-based inks on flexible substrates	Pilatis Aggelos
18:05	Holistic sensing platform based on InterDigitated Electrodes for the quantitative determination of concentration of VOCs	Raptis Ioannis

18:25 - 19:15 Energy

F3

Chair: Chatzichristidi Margarita

18:25	Exploiting the triboelectric effect for mechanical energy harvesting	**Tsamis Christos** **Invited**
18:45	Void and Residual Silicon Dioxide Area: Their role on the Electrochemical Performance of Silicon Nanoparticles Encapsulated by Graphene	Argyropoulos Dimitrios
19:00	A comparison of graphene and carbon nanotubes composite electrodes for solid and liquid electrolyte supercapacitors	Lefa Ioanna