

# SMART-PLANT

## Technologies for Smart Agriculture in the IoT Era

### Technical Program

**Sunday 10 December 2023**

**Venue:** Online through Live Streaming (see 1<sup>st</sup> tab at Webpage)

TIME	TITLE
10:00 – 10:15	<b>Welcome Note</b>
10:15 – 11:15	<b>Keynote #1</b>
10:15 – 11:15	<b>Title: “Printed Computing: Design Automation and Computing based on Additive Printed Electronics”</b> <i>Presenter: Mehdi B. Tahoori, Chair of Dependable Nano Computing (CDNC), Karlsruhe Institute of Technology</i>
11:15 – 11:30	<b>Break</b>
11:30 – 13:00	<b>Session 1: Acceleration at Deep-Edge</b>
11:30 – 12:15	<b>Title: “Diverse DNN Compression for Edge AI Accelerators”</b> <i>Presenter: Jörg Henkel, Kostas Balaskas, Chair for Embedded Systems, Karlsruhe Institute of Technology</i>
12:15 – 13:00	<b>Title: “Advancing the customization of edge-based systems for AI applications”</b> <i>Presenter: Iraklis Anagnostopoulos, Southern Illinois University</i>
13:00 – 13:15	<b>Break</b>
13:15 – 14:45	<b>Session 2: Network and Resource Virtualization</b>
13:15 – 14:00	<b>Title: “IoT Protocols Overview and Application to Smart Agriculture”</b> <i>Presenter: Sotiris Goudos, Aristotle University of Thessaloniki</i>
14:00 – 14:45	<b>Title: “Cloud-Native Orchestration: Synergy Across the Cloud-Edge-IoT Spectrum”</b> <i>Presenter: Anastasios Nanos, Nubificus LTD, United Kingdom</i>
14:45 – 15:00	<b>Closing session</b>

## Monday 11 December 2023

**Venue:** Amphitheater III, Aristotle University Research Dissemination Center (KEDEA)

The talks will be also available through **Live Streaming**  
(see 1<sup>st</sup> tab at Webpage)

TIME	TITLE
09:30 – 10:15	Registration
10:15 – 10:30	Welcome note
10:30 – 11:30	Keynote #2
10:30 – 11:30	<b>Title: “Approximate computing in neural networks”</b> <i>Presenter: Mrazek Vojtech, Brno University of Technology (Czech)</i>
11:30 – 12:00	Coffee Break
12:00 – 13:30	Session 4: Smart Agriculture Case Studies
12:30 – 12:50	<b>Title: “Remote monitoring of beehive based on acoustics signals of honeybees”</b> <i>Presenter: Chrisoula Tananaki, Dimitrios Kanelis, Aristotle University of Thessaloniki</i>
12:50 – 13:10	<b>Title: “Agroverse: Agricultural robots on demand”</b> <i>Presenter: George Bontzios, Agroverse, Greece</i>
13:10 – 13:30	<b>Title: “OMEGA: The Agriculture Weeding Robo”</b> <i>Presenter: Petros Katsileros, Terra Robotics, Greece</i>
13:30 – 14:30	Lunch
14:30 – 16:00	Session 5: Enabling Technologies for Smart Agriculture
14:30 – 15:15	<b>Title: “Edge/Cloud Technologies for smart agriculture”</b> <i>Presenter: D. Masouros, National Technical University of Athens</i>
15:15 – 16:00	<b>Title: “Low-Power Hardware/Software Co-Design for Smart Agriculture”</b> <i>Presenter: Charalampos Kouzinopoulos, Center for Research and Technology Hellas (CERTH)</i>

16:00 – 16:30	Coffee Break
16:30 – 17:15	Session 6: Programming Framework
16:30 – 17:15	<p><b>“Science and Research Computing using the Signaloid Compute Platform”</b></p> <p><i>Presenter: Vasileios Tsoutsouras, Signaloid, UK</i></p>
17:15 – 17:45	Evaluation Test
17:45 – 18:00	Presentation of IEEE CASS Society
18:00 – 18:15	Awards and Closing session

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