

Time in (EET)	Monday 26/9	Tuesday 27/9	Wednesday 28/9 (virtual)	
09:00-09:05	Opening by the GIIS 2022 Chairs	Opening by the GIIS 2022 Chairs	Half-day excursion	
09:05-10:00	<b>Keynote Speech</b> Mohamed-Slim Alouini (King Abdullah University of Science and Technology, Saudi Arabia)	<b>Keynote Speech</b> Constantine Dovrolis (Georgia Institute of Technology, USA)		
10:00-11:15	Technical Session 1	Technical Session 3		
11:15-11:30	<i>Networking Break</i>	<i>Networking Break</i>		
11:30-13:15	<b>Tutorial 1</b> Paschalis Sofotasios (Khalifa University, United Arab Emirates)	<b>Tutorial 2</b> Vasilis Karyotis (Ionian University, Greece)		
13:15-14:15	<i>Lunch</i>	<i>Lunch</i>		
14:15-15:00	<b>Keynote Speech</b> Nancy Alonistioti (National & Kapodistrian University of Athens, Greece)	Technical Session 4		
15:00-16:30	Technical Session 2 (virtual)	Tutorial 3 Dimitris Zorbas (Nazarbayev University, Kazakhstan)		Technical Session 5 (virtual)
16:30-17:00				<b>Keynote Speech (virtual)</b> Melike Erol-Kantarci (University of Ottawa and Ericsson, Canada)
17:00-18:15	Visit to Argostoli			<b>Tutorial 4</b> (virtual, starting @17:15) Panteleimon Balis (Teledrom AB, Sweden)
20:00-23:00		Gala Dinner		

**Monday 26 September 2022**

**Technical Session 1 “Advance in IoT and Ad hoc Networks” (10:00-11:15)**

**1. Study of a Proposed Spectral-based Approach for Facility Location in Tree Topologies**

Asterios Papamichail and Athanasios Tsipis (Ionian University, Greece); Georgios Tsoumanis (University of Ioannina, Greece); Konstantinos Oikonomou (Ionian University, Greece)

**2. Toward a Standard Time Series Representation for IoT based on CBOR Templates**

Juan Sebastian Molina Araque (IMT Atlantique, France); Ivan-Marino Martinez-Bolivar (IETR- INSA Rennes, France); Georgios Z. Papadopoulos (IMT Atlantique, France); Nicolas Montavont (Institut Mines Telecom / IMT Atlantique, France); Laurent Toutain (France)

**3. A Centralized Node Placement Algorithm in WSNs and IoT Networks**

Natalie Temene, Andreas Naoum, Charalambos Sergiou and Chryssis Georgiou (University of Cyprus, Cyprus); Vasos Vassiliou (University of Cyprus & CYENS Center of Excellence, Cyprus)

**4. On Utilizing Unused Slots In Topology-Transparent TDMA MAC Policies for Ad Hoc Networks**

Vasileios Dragonas (Ionian University, Greece); Dimitrios Kallergis (University of West Attica, Greece); Georgios Tsoumanis (University of Ioannina, Greece); Konstantinos Oikonomou (Ionian University, Greece)

**5. AgroNIT: Innovating Precision Agriculture**

Ioannis Moutsinas, Antonis Kalkanof, John Mavridis, Vasileios Zafeiris, Foteini Oikonomou, Georgios Tziokas, Kostas Themelis, Katerina Kyriakou, Christos Theologou and Argyris Serafeim (University of Thessaly, Greece); Apostolos Apostolaras (University of Thessaly & The Centre for Research & Technology Hellas, CERTH, Greece); Persefoni Maletsika, George D Nanos and Thanasis Korakis (University of Thessaly, Greece)

## **Technical Session 2 “AI-based approaches” (15:00-16:30)**

### **1. A Machine Learning Approach to User Assignment in 5G Networks**

Michael Kouris and Vasileios Kokkinos (University of Patras, Greece); Apostolos Gkamas (University Ecclesiastical Academy of Vella of Ioannina, Greece); Philippos Pouyioutas (University of Nicosia, Cyprus); Christos J Bouras (University of Patras, Greece)

### **2. Incentives to Learn: A Location-based Federated Learning Model**

Md Sadman Siraj, Md Sahabul Hossain, Ryan Brown and Eirini Eleni Tsiropoulou (University of New Mexico, USA); Symeon Papavassiliou (National Technical University of Athens, Greece)

### **3. Sensor Placement for Lifetime Extension by Applying Neural Network Configuration under Coverage and Energy Constraints**

Papastergiou Georgios and Apostolos Xenakis (University of Thessaly, Greece); Periklis Chatzimisios (International Hellenic University (Greece), Greece & University of New Mexico (USA), USA); Costas Chaikalis (University of Thessaly, Greece)

**Tuesday 27 September 2022**

**Technical Session 3 “Recent Results: Security, Privacy and Trust”**

**(10:00-11:15)**

**1. Network Anomalies Detection by Unsupervised Activity Deviations Extraction**

Christophe Maudoux (Cnam, France); Selma Boumerdassi (Conservatoire National des Arts et Métiers, France)

**2. Enhancing Cyber Security in IoT Systems using FL-based IDS with Differential Privacy**

Zacharias Anastasakis (Synelixis Solutions SA, Greece); Konstantinos Psychogyios, Terpsichori-Helen Velivassaki and Stavroula Bourou (Synelixis Solutions S.A., Greece); Artemis Voulkidis (Synelixis Solutions SA & Power Operations Limited, United Kingdom (Great Britain)); Dimitrios Skias (Netcompany-Intrasoft S.A., Greece); Antonis Gonos (Entersoft S.A., Greece); Theodore Zahariadis (University of Athens & Synelixis Solutions S.A., Greece)

**3. Selective Content Disclosure using Zero-Knowledge Proofs**

Nikos Fotiou and Vasilis Kalos (Athens University of Economics and Business, Greece); Yannis Thomas (Athens University of Economics and Business (AUEB), Greece); George Xylomenos, Vasilios A. Siris and George C. Polyzos (Athens University of Economics and Business, Greece)

**4. Secure Outage Probability in the Presence of Two Eavesdroppers and Composite Fading**

Seong Ki Yoo (Coventry University, United Kingdom (Great Britain)); Paschalis C. Sofotasios (Khalifa University & Tampere University, Finland); Simon Cotton (Queen's University, Belfast, United Kingdom (Great Britain)); Lei Zhang (Queen's University Belfast, United Kingdom (Great Britain)); JaeSeung Song (Sejong University, Korea (South)); Imran Shafique Ansari (University of Glasgow, United Kingdom (Great Britain))

## **Technical Session 4 “5G Networks and Use Cases” (14:15-15:00)**

### **1. Frequency Reuse in IAB-based 5G Networks using Graph Coloring Methods**

Matthieu Silard and Philippe Fabian (B-com, France); Georgios Z. Papadopoulos (IMT Atlantique, France); Patrick Savelli (B-com, France)

### **2. Intelligent SON Coordination in the 5G-and-beyond era**

Gerasimos Stamatelatos (University of Athens, Greece); Aggeliki Sgora (Ionian University, Greece); Nancy Alonistioti (University of Athens, Greece)

### **3. Service Parameters Identification for Adaptive Networked Music Performance**

Federico Cheli and Stefano Giordano (University of Pisa, Italy)

### **4. Priority-Driven Task Processing in UAV-Assisted Software-Defined Edge Networks**

Onur Kalinagac (Zurich University of Applied Sciences, Switzerland); Gürkan Gür (Zurich University of Applied Sciences (ZHAW), Switzerland); Fatih Alagoz (Bogazici University, Turkey)

### **5. A Study on Robustness for the Single Server Location in Distributed Interactive Applications**

Athanasios Tsipis, Sofia Fanarioti and Vasileios Komianos (Ionian University, Greece); Spyros Sioutas (University of Patras, Greece); Konstantinos Oikonomou (Ionian University, Greece)

**Wednesday 28 September 2022**

**Technical Session 5 “Advances in Networking” (15:00-16:30)**

**1. Subcarrier Assignment, User Matching and Power Allocation for Weighted Sum-Rate Maximization with RSMA**

Jonas A Castro (UFC, Brazil); Francisco Rafael Marques Lima (Wireless Telecom Research Group (GTEL), Brazil)

**2. Service performance measurement methods for 5G Connected and Automated Mobility use cases**

Panagiotis Kontopoulos (National and Kapodistrian University of Athens, Greece); Nancy Alonistioti and Gerasimos Stamatelatos (University of Athens, Greece); Maciej Muehleisen (Ericsson GmbH, Germany); Frédéric Gardes (Orange, France); Francesca Moscatelli (Nextworks, Italy); Andreas Schimpe (Technical University of Munich, Greece); Andreas Pfadler (Volkswagen AG & Technical University of Berlin, Germany)

**3. Design, Implementation, and Evaluation of Host-based In-band Network Telemetry for TCP**

Sandesh Dhawaskar Sathyanarayana and Max Hollingsworth (University of Colorado Boulder, USA); Wenji Wu (Energy Sciences Network, Lawrence Berkeley National Laboratory, USA); Richard Cziva (Meta Inc, USA)

**4. Using Google data for assessing the relation between Covid-19 spread and social distancing**

Spyros Polykalas (Ionian University, Greece); Kyriakos Vlachos (University of Patras, Greece); George N Prezerakos (University of West Attica, Greece)