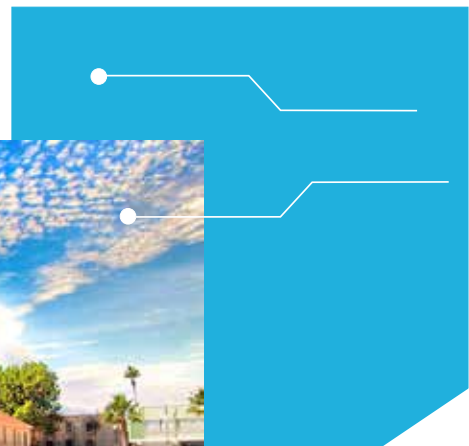


## TUESDAY - OCTOBER 24, 2023

|                           |             |   |  |
|---------------------------|-------------|---|--|
| 09:00 - 09:20             |             | <b>On-site registration</b>   |  |
| 09:20 - 09:30             |             | Opening   |  |
| 09:30 - 11:00             | <b>long</b> | <b>μXL: Explainable Lead Generation with Microservices and Hypothetical Answers</b><br>Lufs Cruz-Filipe, Sofia Kostopoulou, Fabrizio Montesi and <b>Jonas Vistrup</b>   |  |
| Session 1: Microservices  |             |   |  |
| Room: Venus               | <b>long</b> | <b>One Microservice per Developer: Is This the Trend?</b><br>Dario Amoroso d'Aragona, <b>Xiaozhou Li</b> , Tomas Cerny, Andrea Janes, Valentina Lenarduzzi and Davide Taibi                                   |  |
| Chair: A. Samir           | <b>long</b> | <b>End-to-End Test Coverage Metrics in Microservice Systems: An Automated Approach</b><br>Amr Elsayed, <b>Tomas Cerny</b> , Jorge Yero Salazar, Austin Lehman, Joshua Hunter, Ashley Bickham and Davide Taibi |  |
| 11:00 - 11:30             |             | <b>Coffee Break</b>   |  |
| 11:30 - 13:00             | <b>long</b> | <b>Time-aware Web Service QoS Prediction in Collaborative Filtering Methods: A Literature Review <span style="color: red;">ONLINE</span></b><br>Ezdehar Jawabreh and Adel Taweel                              |  |
| Session 2: QoS            |             |   |  |
| Room: Venus               | <b>long</b> | <b>Enhanced Time-Aware Collaborative Filtering Method for QoS Web Service Prediction <span style="color: red;">ONLINE</span></b><br>Ezdehar Jawabreh and Adel Taweel  |  |
| Chair: T. Cerny           | <b>long</b> | <b>Comparison of performance and costs of CaaS and RDBaaS services</b><br>Piotr Karwaczynski, Mariusz Wasielewski and Jan Kwiatkowski   |  |
| 13:00 - 14:00             |             | <b>Lunch Break</b>  |  |
| 14:00 - 15:00             |             | <b>Keynote</b><br><b>Data Stream Processing at the Edge</b><br>George Pallis  |  |
| Room: Venus               |             |   |  |
| Chair: G. A. Papadopoulos |             |   |  |
| 15:00 - 15:30             |             | <b>Coffee Break</b>   |  |

|   |              |   |
|---|--------------|---|
| 15:30 - 17:00                                     | <b>short</b> | <b>A Taxonomy for Workload Deployment Orchestration in the Edge-Cloud Continuum</b>   |
| Session 3: Short papers                           |              |   |
| Room: Venus                                       | <b>short</b> | <b>Intent-based AI-enhanced Service Orchestration for application deployment and execution in the Cloud Continuum</b>   |
| Chair: X. Li                                      |              | <b>Efthymios Chondrogiannis</b> , Efstathios Karanastasis, Vassiliki Andronikou, Adrian Spataru, Anastassios Nanes, Aristotelis Kretsis and Panagiotis Kokkinos |
|   | <b>short</b> | <b>Optimizing the Cost-Performance Ratio of FaaS Deployments</b>  |
|   |              | <b>Richard Patsch</b> and Karl Michael Goschka  |
|   | <b>short</b> | <b>The Microservice Dependency Matrix</b>   |
|   |              | Amr Elsayed and <b>Tomas Cerny</b>  |
| 17:15 - 23:00 <b>Tour &amp; Conference Dinner</b> |              |   |



WEDNESDAY - OCTOBER 25, 2023

09:00 - 09:30

On-site registration

09:30 10:30

Room: Venus

Chair: J.Soldani

**Keynote**

**Towards a Hybrid Cloud & Edge Orchestrator for Mining Exascale Distributed Streams**

**Herodotos Herodotou**

10:30 - 11:00

Coffee Break

11:00 - 12:30

long

**Horizontal Scaling of Transaction-Creating Machines for Blockchains**

Ole Delzer, Inge Weber, Richard Habeck and **Stefan Schulte**

Session 4:  
Service  
orchestration

long

**Uncovering Effective Roles and Tasks for Fog Systems**

**Maximilian Blume**, Sebastian Lins and Ali Sunyaev

Room: Venus

long

**Cooperative Virtual Machine Placement **ONLINE****

**Jose Quenum** and Samir Aknine

Chair: A. Makris

12:30 - 13:30

Lunch Break

13:30 - 15:00

long

**A Multi-pronged Self-Adaptive Controller for Analyzing Misconfigurations for Kubernetes Clusters and IoT Edge Devices**

**Areeg Samir**, Abdo Al-Wosabi, Mohsin Khan and Havard Dagenborg

Session 5: Edge  
computing

Room: Venus

long

**Adaptive Controller to Identify Misconfigurations and Optimize the Performance of Kubernetes Clusters and IoT Edge Devices**

**Areeg Samir** and Havard Dagenborg

Chair: S. Schulte

long

**Streamlining XR Application Deployment with a Localized Docker Registry at the Edge**

**Antonios Makris**, Evangelos Psomakelis, Ioannis Korontanis, Theodoros Theodoropoulos, Antonis Protopsaltis, Maria Pateraki, Zbyszek Ledwon, Christos Diou, Dimosthenis Anagnostopoulos and Konstantinos Tserpes

15:00 - 15:30

Coffee Break

15:30 - 17:00

Session 6: PhD  
Symposium &  
Industry Track

Room: Venus

Chair: W.  
Zimmermann

short

**Towards Cloud Storage Tier Optimization with Rule-Based Classification**

**Akif Quddus Khan**, Nikolay Nikolov, Mihhail Matskin, Radu Prodan, Christoph Bussler, Dumitru Roman and Ahmet Soylu

short

**Towards a Federated Learning based Compute Continuum Framework**

**Mohamad Moussa**, Philippe Glass, Nabil Abdennadher, Giovanna Di Marze Serugendo and Raphael Couturier

short

**Detecting Model Changes in Organisational Processes: A Cloud-Based Approach **ONLINE****

**Javier Fabra**, Vctor Gallego-Fontenla, Juan Carlos Vidal, Jorge Garda de Quiros, Pedro Alvarez, Manuel Lama Penin, Alberto Bugarfñ and Alejandro Ramos-Soto

17:00 - 17:10

Closing (with award ceremony)

### Conference proceedings

Available at:

<https://cyprusconferences.org/esocc2023/proceedings>

Or scan:

