ESOCC

2023

10th European Conference On Service–Oriented And Cloud Computing

CONFERENCE HANDBOOK
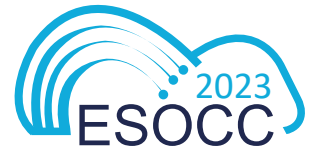
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ESOCC 2023

Welcome note

Welcome note

Service-oriented and cloud computing have made a huge impact, both on the software industry and on the research community. Today, service and cloud technologies are applied to build large-scale software landscapes and to provide single software services to end users. Services are nowadays developed and deployed independently, based on a variety of technologies, and freely composed, which is quite an important fact from a business perspective. Similarly, cloud computing aims at enabling flexibility by offering a centralized sharing of resources. The industry's need for agile and flexible software and IT systems has made cloud computing the dominating paradigm for provisioning computational resources in a scalable, on-demand fashion. Nevertheless, service devel- opers, providers, and integrators still need to create methods, tools, and techniques to support cost-effective and secure development, as well as the use of dependable devices, platforms, services, and service-oriented applications in the cloud.

The European Conference on Service-Oriented and Cloud Computing (ESOCC) is the premier European conference on advances in the state of the art and practice of service-oriented computing and cloud computing. ESOCC's main objectives are to facilitate the exchange between researchers and practitioners in the areas of service- oriented computing and cloud computing, and to explore new trends in those areas and foster future collaborations in Europe and beyond. The tenth edition of ESOCC, ESOCC 2023, was held in Larnaca (Cyprus) during October 24–25, 2023, under the auspices of the University of Cyprus.

ESOCC 2023 was a multi-event conference that covered both an academic and industrial audience with its main research track focusing on the presentation of cutting- edge research in both the service-oriented and cloud computing areas. In conjunction, a Projects and Industry Track was held, bringing together academia and industry by showcasing the application of service-oriented and cloud computing research, especially in the form of case studies. Overall, 40 submissions were received, out of which 12 outstanding full and four short papers were accepted. Thus, the overall acceptance rate for full papers was 30%.

Each submission was peer-reviewed by three main reviewers, comprising either Program Committee (PC) members or their colleagues. The PC Chairs would like to thank all the reviewers that participated in the reviewing process. Their comments were essential for improving the quality of the received manuscripts and especially for giving constructive comments to the authors of papers that, in their current forms, were rejected from ESOCC 2023.

The attendees of ESOCC had the opportunity to follow two outstanding keynotes that were part of the conference program. The first keynote was conducted by George Pallis of the University of Cyprus. The keynote presented three novel adaptive moni- toring frameworks and a fog computing emulation framework. The frameworks allow for reducing energy consumption and data volume transmitted over edge computing networks, and the experiment-based optimization of complex fog topologies.

The second keynote was conducted by Herodotos Herodotou of Cyprus University of Technology. This keynote first reviewed, among other things, the current state of the art in big data stream processing and edge-based stream processing, cloud resource man- agement and tuning, and machine and deep learning on data streams. Next, it presented a general architecture design for an optimized, multi-cloud and edge orchestrator that enables machine and deep learning over voluminous and heterogeneous data streams on hybrid cloud and edge settings. This orchestrator also includes necessary functionalities for practical and scalable processing.

Additional events held at ESOCC 2023 included the PhD Symposium, enabling PhD students to present their work in front of real experts, as well as the Projects and Industry Track, providing researchers and practitioners with the opportunity to present the main research results that they achieved in the context of currently operating research and industrial projects. The papers of both events are also included in this proceedings volume.

The PC Chairs and the General Chair would like to gratefully thank all the people involved in making ESOCC 2023 a success. This includes both the PC members and their colleagues who assisted in the reviews, as well as the organizers of the PhD Symposium and the Projects and Industry Track. The Chairs also thank EasyConferences Ltd. for their administrative support and local organization. Finally, a special thanks to all the authors of the manuscripts submitted to ESOCC 2023, the presenters of the accepted papers who gave interesting and fascinating presentations of their work, and the active attendees of the conference who initiated interesting discussions and gave fruitful feedback to the presenters. All these people have enabled not only the successful organization and execution of ESOCC 2023 but also an active and vibrant community, which continuously contributes to research in service-oriented and cloud computing. This also encourages ESOCC to keep supporting and enlarging its community, by providing a forum in which new research outcomes can be shared and discussions on how to achieve greater impact can be held.

George A. Papadopoulos

Florian Rademacher

Jacopo Soldani

September 2023

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Keynote Speakers

Prof. Herodotos Herodotou ● Cyprus University of Technology

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

Abstract: The explosive increase in volume, velocity, variety, and veracity of data generated by distributed and heterogeneous nodes such as IoT and other devices, continuously challenge the state of art in big data processing platforms and mining techniques. Consequently, it reveals an urgent need to address the ever-growing gap between this expected exascale data generation and the extraction of insights from these data. To address this need, this talk first reviews the state of art in big data stream processing, cloud resource management and tuning, stream processing at the edge, machine and deep learning on data streams, and data transformation techniques. Next, this talk presents a general architecture design for Stream to Cloud & Edge (S2CE), an optimized, multi-cloud and edge orchestrator, easily configurable, scalable and extensible. S2CE will enable machine and deep learning over voluminous and heterogeneous data streams running on hybrid cloud and edge settings, while offering the necessary functionalities for practical and scalable processing: data fusion and preprocessing, sampling and synthetic stream generation, cloud and edge smart resource management, and distributed processing.

Bio: Dr. Herodotos Herodotou is an Assistant Professor in the Department of Electrical Engineering and Computer Engineering and Informatics at the Cyprus University of Technology, where he is leading the Data Intensive Computing Research Lab. He received his Ph.D. in Computer Science from Duke University in May 2012. His Ph.D. dissertation work received the ACM SIGMOD Jim Gray Doctoral Dissertation Award Honorable Mention as well as the Outstanding Ph.D. Dissertation Award in Computer Science at Duke. Before joining CUT, he held research positions at Microsoft Research, Yahoo! Labs, and Aster Data as well as software engineering positions at Microsoft and RWD Technologies. His research interests are in large-scale Data Processing Systems, Database Systems, and Cloud Computing. In particular, his work focuses on ease-of-use, manageability, and automated tuning of both centralized and distributed data-intensive computing systems. In addition, he is interested in applying database techniques in other areas like maritime informatics, scientific computing, bioinformatics, and social computing. His research work to date has been published in several top scientific conferences and journals (e.g., PVLDB, SIGMOD, SoCC, CIDR), two books, and two book chapters.

Prof. George Pallis ● University of Cyprus

Data Stream Processing at the Edge

Abstract: With the rapid integration of massive amounts of data and proliferation of new devices (e.g., smart mobile devices, drones, Internet-of-Things (IoT), etc.), today's network system infrastructures are being stretched to their limits. Although edge computing brings the computation closer to both delay-sensitive services and interested users, the challenges restricting the cloud model still remain. In addition, as the plethora of data generated across connected devices continues to vastly increase, the need to query the "edge" so as to derive in-time analytic insights is more evident than ever. In this talk, I will present three novel adaptive monitoring frameworks and a fog computing emulation framework. First, I will present the AdaM framework, which dynamically adjusts the monitoing intensity and the amount of data disseminated through the network based on a runtime estimation model capturing the current data evolution and variability. By accomplishing this, energy consumption and data volume are reduced, allowing IoT devices to preserve battery and ease processing at data consuming services, while still preserving accuracy. Then, I will present the ADMin framework. Rather than transmitting the entire stream, ADMin favors sending updates for its estimation model from which values can be inferred, triggering dissemination only when shifts in the stream evolution are detected. This is achieved by efficiently adapting the rate at which IoT devices disseminate monitoring streams based on run-time knowledge of the stream evolution, variability and seasonal behavior. The third framework that I will present is called ATMoN and focuses on dynamic networks. Specifically, ATMoN framework dynamically adjusts the temporal granularity graph metrics which are computed based on runtime knowledge captured by a low-cost probabilistic learning model approximating both the metric stream evolution and the runtime volatility of the graph topology. This computationally offloads graph processing engines and eases the communication overhead in edge computing networks where the wealth of data dissemination is plentiful. Next, I will present Fogify, an emulator easing the modeling, deployment and large-scale experimentation of fog and edge testbeds. Fogify provides a toolset to: model complex fog topologies comprised of heterogeneous resources, network capabilities and QoS criteria; deploy the modelled configuration and services using popular containerized descriptions to a cloud or local environment; experiment, measure and evaluate the deployment by injecting faults and adapting the configuration at runtime to test different "what-if" scenarios that reveal the limitations of a service before introduced to the public.

Bio: George Pallis is Associate Professor at the Computer Science Department. Dr. Pallis received his BSc (2001) and Ph.D. (2006) degree in Department of Informatics of Aristotle University of Thessaloniki (Greece). His research interests include Cloud computing with focus on Cloud elasticity and monitoring, Edge Computing and Big Data Analytics. He is principal institutional investigator in research projects funded by EC, Research Promotion Foundation in Cyprus, and industry (e.g., Google) and has totally attracted more than 5.5M EUR. Dr. Pallis was one of the contributing experts for the EU Roadmap for Advanced Cloud Technologies under H2020. Dr. Pallis has published over 80 papers in international journals (e.g., IEEE TKDE, IEEE TCC, IEEE TSC, ACM TOIT etc), magazines (e.g., CACM, IEEE Internet Computing) and conferences (e.g., INFOCOM, IPDPS, ICDCS, IEEE BIG DATA etc) and he is contributor of two international DIN (German Institute for Standardization) standards. Also, he has served as PC-Co-chair of CloudCom 2018 and CCGrid 2019. Dr. Pallis has also served in numerous Program and Organization Committees for international conferences, and he received the best paper awards in the IoTDI 2022, IEEE BIG DATA 2016 and the ICSOC 2014 and the best demo award in the ACM/IEEE Symposium on Edge Computing (SEC 2020). In 2019, Dr. Pallis served as guest editor for the edge computing special issue on the prestigious Proceedings of the IEEE journal. Dr Pallis appeared in the World's Top 2% Scientists list published by Stanford University. He is Editor in Chief in the IEEE Internet Computing magazine, Associate Editor in the IEEE Transactions on Cloud Computing and Associate Editor in the Computing Journal (Springer).

Programme

TUESDAY - OCTOBER 24, 2023		
09:00 - 09:20	**On-site registration**	
09:20 – 09:30	**Opening**	
09:30 11:00 Session 1: Microservices Room: Venus Chair: A. Samir	**long**	**µXL: Explainable Lead Generation with Microservices and Hypothetical Answers** Lufs Cruz-Filipe, Sofia Kostopoulou, Fabrizio Montesi and **Jonas Vistrup**
	long	**One Microservice per Developer: Is This the Trend?** Dario Amoroso d'Aragona, **Xiaozhou Li**, Tomas Cerny, Andrea Janes, Valentina Lenarduzzi and Davide Taibi
	long	**End-to-End Test Coverage Metrics in Microservice Systems: An Automated Approach** Amr Elsayed, **Tomas Cerny**, Jorge Yero Salazar, Austin Lehman, Joshua Hunter, Ashley Bickham and Davide Taibi
11:00 - 11:30	**Coffee Break**	
11:30 - 13:00 Session 2: QoS Room: Venus Chair: T. Cerny	**long**	**Time-aware Web Service QoS Prediction in Collaborative Filtering Methods: A Literature Review** **Ezdehar Jawabreh** and Adel Taweel
	long	**Enhanced Time-Aware Collaborative Filtering Method for QoS Web Service Prediction** **Ezdehar Jawabreh** and Adel Taweel
	long	**Comparison of performance and costs of CaaS and RDBaaS services** **Piotr Karwaczynski,** Mariusz Wasielewski and Jan Kwiatkowski
13:00 - 14:00	**Lunch Break**	
14:00 - 15:00 Room: Venus Chair: G. A. Papadopoulos		**Keynote** **Data Stream Processing at the Edge** **George Pallis**
15:00 - 15:30	**Coffee Break**	

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

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 Session 4: Service orchestration Room: Venus Chair: A. Makris	**long**	**Horizontal Scaling of Transaction-Creating Machines for Blockchains** Ole Delzer, Inge Weber, Richard Habeck and **Stefan Schulte**
	long	**Uncovering Effective Roles and Tasks for Fog Systems** **Maximilian Blume**, Sebastian Lins and Ali Sunyaev
	long	**Cooperative Virtual Machine Placement** **Jose Quenum** and Samir Aknine

12:30 - 13:30	**Lunch Break**	

13:30 - 15:00 Session 5: Edge computing Room: Venus Chair: S. Schulte	**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
	long	**Adaptive Controller to Identify Misconfigurations and Optimize the Performance of Kubernetes Clusters and IoT Edge Devices** Areeg Samir and Havard Dagenborg
	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	**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
Session 6: PhD Symposium & Industry Track	**short**	**Towards a Federated Learning based Compute Continuum Framework**
		Mohamad Moussa, Philippe Glass, Nabil Abdennadher, Giovanna Di Marze Serugendo and Raphael Couturier
Room: Venus		
Chair: W. Zimmermann	**short**	**Detecting Model Changes in Organisational Processes: A Cloud-Based Approach**
		Javier Fabra, Vfctor Gallego-Fontenla, Juan Carlos Vidal, Jorge Garda de Quiros, Pedro Alvarez, Manuel Lama Penin, Alberto Bugarfn and Alejandro Ramos-Soto
17:00 - 17:10		**Closing (with award ceremony)**

Conference proceedings

Available at:

https://cyprusconferences.org/esocc2023/proceedings

Or scan:

George A. Papadopoulos
Florian Rademacher
Jacopo Soldani (Eds.)

LNCS 14183

Service-Oriented and Cloud Computing

10th IFIP WG 6.12 European Conference, ESOCC 2023
Larnaca, Cyprus, October 24-25, 2023
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Social Events

Tour & Conference Dinner

Date: 24 October 2023
Time: 17:15 - 23:00
Departure Time: 17:45
Departure From: Venue

We will get together at the lobby of the Venue Hotel, from where we will promptly depart in air-conditioned coaches for a city tour. A professional guide will introduce us to the rich history of Cyprus and the city of Larnaca in particular. Dinner will take place at a traditional tavern serving excellent dishes of Cypriot cuisine, complimented with local drinks and desserts.

The Conference Dinner is included in all Registration Types.

Ticket per accompanying person: **€70.00**

Kamares Aqueduct

Larnaca is an area of outstanding natural beauty, endowed with numerous attractions, waterfronts and scenic vistas, complemented by some of the island's most outstanding beaches.

The city of Larnaca is located on the southern coast of Cyprus, with a population of approximately 85,000 and is the third largest city, after the capital Nicosia and Limassol. It is home to the island's largest airport, Larnaca International Airport, which is located on the outskirts of the city to the south with excellent road links to the whole of the island. Larnaca also has the island's second largest commercial port and a marina, which are two of the four official entry points by sea into Cyprus.

The old town

Larnaca Salt Lake is a distinctive and picturesque landmark, consisting of a network of four salt lakes of different sizes, with an overall surface area of 2.2km, located just off the road leading to the airport. It is considered one of the most important wetlands of Cyprus and has been declared a special protected area and is a prominent domain for wild birds.

The lake is home to 85 species of water birds and is a primary migratory passage through Cyprus. It is visited by flocks of pink flamingos that reside there from November until the end of March, a breath-taking sight to see.

The city also has a number of other landmarks, which include the Church of Saint Lazarus; the Catacomb of Phaneromeni Church; Hala Sultan Tekke; Kamares Aqueduct and the Fort of Larnaca. Additionally, Larnaca has a Municipal Theatre and an Art Gallery.

The beautiful seafront promenade, the "Phinikoudes", is not only lined with palm trees, but also an array of popular seafood restaurants, bars and cafés predominantly visited by tourists.

Church of Saint Lazarus

Golden Bay Beach - 5*

The Golden Bay Beach Hotel is a luxurious 5 star hotel situated in the favored south eastern region of Cyprus at the heart of the Bay of Larnaca. The hotel is just outside the town of Larnaca, only 15 minutes from Larnaca International Airport and 1 hour and 30 minutes from Paphos International Airport.A

The hotel has 193 rooms including Standard, Deluxe and Suites that overlook the hotel swimming pool, sea or the city. All rooms include wireless internet connection, bathrobes, slippers, safety deposit boxes, mini bars, tea & coffee making facilities, multi-channel TV with local, satellite and Pay-TV channels, and balcony.

General Facilities

General Facilities The Hotel features a Leisure club with a complete range of workout and leisure facilities. Including gym, aerobics, indoor and outdoor pool, sauna, steam bath, hairdressing salon, beach, water sports, mini club and tennis court.

Food & Beverage

The Etoiles Restaurant: Serves classic haute cuisine from France and Italy, with hints of the Near East and the Orient.

The outdoor Yacht Club: Guests can enjoy the beautiful sea view and a menu of international tastes.

Thalassa Restaurant: Offers a buffet of salads, meat, fish and pasta dishes and an extensive vegetarian menu.

Ouzeri Restaurant: Serves Meze dishes of classic Cyprus and Byzantine cuisine, in a Byzantine castle courtyard setting.

Cocktail Bar: The ideal place for casual meetings, with a great selection of coffees, signature cocktails, and snacks.

Shakespeare Pub: A traditional English pub, with a selection of beers, cocktails and quality food.

The Pool Bar: Features a wet bar area, and offers relaxing meals, fresh fruit juices, waffles, crepes and cocktails.

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