

The International Workshop on Recent Advances for Multi-Clouds and Mobile Edge Computing (M²EC 2019)

to be held in conjunction with the

[33rd International Conference on Advanced Information Networking and Applications \(AINA 2019\)](#)

March 27–29, 2019 in Matsue, Japan



M²EC 2019 Website: <http://melodic.cloud/M2EC-2019>

Scope

Today, a large number of enterprises and individuals rely on services offered by clouds to meet their computational and storage demands. However, in general, no single cloud provider is able to provide all the features a user may need in a cost-efficient way, while satisfying the user's security and performance requirements. For instance, even the most dominant cloud providers have limited geographical presence. Cloud federation enables end users to integrate segregated resources from different cloud providers. The use of Multi-Clouds offers more freedom to the cloud users, and increases the granularity of choices in the application deployment. Growing interest in Multi-Clouds pushes the need to investigate a large number of under-explored research topics, ranging from Multi-Cloud resource provisioning, application deployments, automated configurations, federated networking, adaptations, security, and privacy.

Moreover, with the growing need of real-time data analytics and critical event handling by many modern applications, such as in the Internet of Things (IoT), it is evident that the centralized compute and storage model offered by cloud computing is not suitable for such applications, due to high end-to-end latencies. Mobile Edge Computing (MEC), on the other hand, enables a computing and storage infrastructure provisioned closely to the end-users at the edge of a cellular network. Combining MEC in Multi-Cloud infrastructures can help to combat latency challenges imposed by the cloud-centric architectures.

The intent of our workshop is to bring together people from research and industry, in order to provide a discussion forum for state-of-the-art topics related to cloud, multi-cloud and mobile edge computing technology, networks and applications. The International Workshop on Recent Advances for Multi-Clouds and Mobile Edge Computing (M²EC 2019) will include full-paper sessions as well as a poster session (with short presentations) to introduce preliminary ideas as well as work in progress.

Proceedings of the workshop will be published in Springer Series "Advances in Intelligent Systems and Computing". The books of this series are submitted to ISI Proceedings, EI-Compendex, DBLP, SCOPUS, Google Scholar and Springerlink.

Topics of Interest

The main topics to be addressed include (but are not limited to):

- Design and implementation of Multi-Cloud and Cross-Cloud systems
- Networking technologies for Cloud federation
- Multi-Cloud middleware
- Cloud/Multi-Cloud resilience, robustness, load balancing, failover handling
- Cloud/Multi-Cloud monitoring, adaptation and scalability
- Cloud/Multi-Cloud security and privacy
- Cloud/Multi-Cloud use-case applications
- Cloud/Multi-Cloud (application) monitoring, adaptation and scalability
- Adaptive Multi-Cloud application provisioning
- Design and provisioning of Big Data, Multi-Cloud applications
- Inter-operability in Multi-Clouds
- Mobile Edge Computing systems
- Mobile Edge Computing for 5G network infrastructures
- Design and provisioning of Mobile Edge Computing applications
- Quality of Service in Multi-Cloud setups
- Efficient distributed storage techniques
- Low-latency transport protocols
- Low-latency storage
- Resilient networks and systems
- Multi-homed systems and advanced transport protocols
- Applications and algorithms for Big Data and Mobile Edge Computing (Multi-)Clouds
- Application deployment and support for legacy applications

Organizing Committee (in alphabetical order)

General Chairs:

- Dimitris Apostolou, Institute of Communication and Computer Systems (Athens, Greece)
- Thomas Dreibholz, Simula@OsloMet – Simula Metropolitan Centre for Digital Engineering (Oslo, Norway)
- Feroz Zahid, Simula Research Laboratory (Fornebu, Akershus, Norway)

Publicity Chairs:

- Paweł Skrzypek, 7bulls (Warsaw, Poland)
- Xing Zhou, Hainan University (Haikou, Hainan, China)

Program Committee:

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- Xuejun Cai, Ericsson (Stockholm, Sweden)
- Jörg Domaschka, Ulm University (Ulm, Baden-Württemberg, Germany)
- Thomas Dreibholz, Simula@OsloMet – Simula Metropolitan Centre for Digital Engineering (Oslo, Norway)
- Ahmed Elmokashfi, Simula@OsloMet – Simula Metropolitan Centre for Digital Engineering (Oslo, Norway)
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- Geir Horn, University of Oslo (Oslo, Norway)
- Quentin Jacquemart, CRNS (Sophia Antipolis, France)
- Kyriakos Kritikos, FORTH, Institute of Computer Science (Heraklion, Greece)
- Xiaoyi Lu, The Ohio State University (Columbus, Ohio, United States)
- Sabita Maharjan, Simula@OsloMet – Simula Metropolitan Centre for Digital Engineering (Oslo, Norway)
- Somnath Mazumdar, Simula Research Laboratory (Fornebu, Akershus, Norway)
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- Samuel Rodrigo-Mocholí, Graphcore (Oslo, Norway)
- Paresh Saxena, BITS Pilani University (Hyderabad, India)
- Jawwad Shamsi, FAST NUCES (Karachi, Pakistan)
- Tor Skeie, Fabriscale Technologies (Fornebu, Akershus, Norway)
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- Vlado Stankovski, University of Ljubljana (Ljubljana, Slovenia)
- Salman Taherizadeh, Jozef Stefan Institute (Ljubljana, Slovenia)
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- Yiannis Verginadis, Institute of Communication and Computer Systems (Athens, Greece)
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- Feroz Zahid, Simula Research Laboratory (Fornebu, Akershus, Norway)
- Xing Zhou, Hainan University (Haikou, Hainan, China)

Important Dates

- **Paper Submission Deadline:** **December 10, 2018 --- EXTENDED! ---**
- Author Notification: January 15, 2019
- Author Registration: January 25, 2019
- Camera-Ready Paper Submission: January 25, 2019