Serverless Continuum: Serverless Computing for the Edge-Cloud-IoT Continuum

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Message from the Guest Editors

Dear Colleagues,

The amalgamation of multiple edge and cloud clusters into the so-called Edge-Cloud-IoT continuum is completely transforming how we perceive, consume, and manage compute infrastructures and other continuum resources, such as storage and network. Additionally, novel resource types, such as edge-based sensors, and specialized devices, such as AI inference accelerators, are increasingly becoming an integral part of this novel computing continuum. This calls for novel and fundamentally different approaches to application execution models as well as infrastructure management and operation in the Edge-Cloud continuum.

Serverless computing has emerged as a suitable paradigm for the emerging Edge-Cloud-IoT continuum systems and applications. By abstracting away the underlying infrastructure operation and management, it promises to improve developers' experiences and also optimize overall resource utilization. However, a number of challenges related to programming support, reliability engineering, and performance engineering still remain.

Special Issue

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Message from the Editor-in-Chief

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