Dear Professor Ernesto Damiani

Editor-in-Chief

IEEE Transactions on Services Computing

I would like to submit the manuscript entitled “Cross-Edge Orchestration of Serverless Functions with Probabilistic Caching” to be considered for publication as a regular paper in the IEEE Transactions on Services Computing.

In this paper, we investigate the request distribution and function caching problem in serverless edge computing.

However, function caching is not a panacea to mitigate the cold-start issues because it requires extra hardware resources which violates the spirit of serverless computing.

To cope with the bursty and dynamic nature of serverless edge computing, we propose a context-aware caching policy for serverless functions that significantly reduces the system cost and cold-start frequency by up to 62.1% and 69.1%, respectively.

We believe these findings will be of interest to the readers in the journal.

We declare this manuscript is original, has not been published before and is not considered for publication elsewhere.

We know of no conflicts of interest associated with this publication, and there has been no significant financial support for this work that could have influenced its outcome. As the corresponding author, I confirm that the manuscript has been read and approved for submission by the named authors.

Sincerely,

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