

# An Online Orchestration Mechanism for General-Purpose Edge Computing



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## Abstract:

In recent years, edge computing has been attracting much interest, however, most current research is application-specific, and lacking from a business perspective of edge cloud providers (ECPs) that provide general-purpose edge cloud services to mobile service providers and users. In this research, we present a vision of general-purpose edge computing realized by multiple interconnected edge clouds, analyzing the business model from the viewpoint of ECPs, and identifying the main issues to address to maximize benefits for ECPs. With theoretical analysis and simulations, we show that the proposed method approximates the optimal solution in a challenging environment without having future knowledge of the system.

## Biography:

Xun Shao received the Ph.D. degree from Osaka University, Japan, in 2013. He was a researcher at the National Institute of Information and Communications Technology (NICT), Japan, from 2013 to 2017. He is currently Specially Appointed Assistant Professor with the School of Regional Innovation and Social Design Engineering, Kitami Institute of Technology, Japan. His research interests include networking and distributed systems.

