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International Journal of Engineering and Advanced Technology [Open Access](#)
Volume 9, Issue 1, October 2019, Pages 2338-2344

User-centric learning for multiple access selections (Article) [\(Open Access\)](#)

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Abstract

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We are in the age where business growth is based on how user-centric your services or goods is. Current research on wireless system is more focused on ensuring that user could achieve optimal throughput with minimal delay, disregarding what user actually wants from the services. Looking from connectivity point of view, especially in urban areas these days, there are multiple mobile and wireless access that user could choose to get connected to. As people are looking toward machine automation, we understand that the same could be done for allowing users to choose services based on their own requirement. This paper looks into unconventional, non-disruptive approach to provide mobile services based on user requirements. The first stage of this study is to look for user association from three new perspectives. The second stage involved utilizing a reinforcement learning algorithm known as q-learning, to learn from feedbacks to identify optimal decision in reaching user-centric requirement goal. The outcome from the proposed deployment has shown significant improvement in user association with learning aware solution © BEIESP.

SciVal Topic Prominence ⓘ

Topic: Base stations | Heterogeneous networks | Heterogeneous cellular

Prominence percentile: 98.736 ⓘ

Author keywords

Access selection Heterogeneous wireless networks Q-learning User association User-centric

ISSN: 22498958

Source Type: Journal

Original language: English

DOI: 10.35940/ijeat.A2666.109119

Document Type: Article

Publisher: Blue Eyes Intelligence Engineering and Sciences Publication

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