# Article information:

Joint Resource Allocation and User Scheduling Scheme for Federated Learning | IEEE Conference Publication | IEEE Xplore  
<https://ieeexplore.ieee.org/abstract/document/9625056>

# Article summary:

1. This paper investigates the impact of communication factors on the convergence performance of federated learning (FL) in wireless networks.

2. A joint resource allocation and user scheduling scheme is proposed to minimize the maximum update delay of user training.

3. Simulation results show that the convergence time can be reduced by 41.6% compared with the random scheduling allocation scheme.

# Article rating:

May be slightly imbalanced: The article presents the information in a generally reliable way, but there are minor points of consideration that could be explored further or claims that are not fully backed by appropriate evidence. Some perspectives may also be omitted, and you are encouraged to use the research topics section to explore the topic further.

# Article analysis:

The article provides a comprehensive overview of federated learning (FL) in wireless networks, and presents a joint resource allocation and user scheduling scheme to minimize the maximum update delay of user training. The article is well-structured and provides detailed information about related works, which makes it reliable and trustworthy. However, there are some potential biases that should be noted. For example, the article does not provide any evidence for its claims or explore counterarguments, which could lead to one-sided reporting or partiality in favor of its proposed solution. Additionally, possible risks associated with FL are not discussed in detail, which could lead to an incomplete understanding of this technology. Furthermore, while the article mentions some related works, it does not present both sides equally or explore all possible solutions for optimizing resource allocation and user scheduling in FL networks. In conclusion, while this article is generally reliable and trustworthy, there are some potential biases that should be taken into consideration when reading it.

# Topics for further research:

* Federated learning risks
* Resource allocation optimization
* User scheduling optimization
* Counterarguments to federated learning
* Alternatives to federated learning
* Advantages and disadvantages of federated learning

# Report location:

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