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Federated deep learning for solving an image classification problem on a desktop grid system

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The paper considers the adaptation of federated deep learning on a desktop grid system using the example of an image classification problem. Restrictions are imposed on data transfer between the nodes of the desktop grid only for a part of the dataset. The implementation of federated deep learning on a desktop grid system based on the BOINC platform is considered. Methods for generating local datasets for desktop grid nodes are discussed. The results of numerical experiments are presented.

Summary

Primary author: KUROCHKIN, Ilya (IITP RAS)
Co-author: Mrs PRUN, Alexandra (IITP RAS)
Presenter: KUROCHKIN, Ilya (IITP RAS)
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