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### SCIENTIFIC PAPERS

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ERROR FEEDBACK SHINES WHEN FEATURES ARE RARE  <a href="https://arxiv.org/abs/2305.15264">https://arxiv.org/abs/2305.15264</a>	2023
FEDERATED LEARNING WITH REGULARIZED CLIENT PARTICIPATION  <a href="https://arxiv.org/abs/2302.03662">https://arxiv.org/abs/2302.03662</a> <i>Accepted to Federated Learning and Analytics in Practice. Workshop at ICML 2023.</i>	2023
SHARPER RATES AND FLEXIBLE FRAMEWORK FOR NONCONVEX SGD WITH CLIENT AND DATA SAMPLING  <a href="https://arxiv.org/abs/2206.02275">https://arxiv.org/abs/2206.02275</a>	2022
FEDERATED OPTIMIZATION ALGORITHMS WITH RANDOM RESHUFFLING AND GRADIENT COMPRESSION  <a href="https://arxiv.org/abs/2206.07021">https://arxiv.org/abs/2206.07021</a> <i>Accepted to Federated Learning and Analytics in Practice. Workshop at ICML 2023.</i>	2022
FASTER RATES FOR COMPRESSED FEDERATED LEARNING WITH CLIENT-VARIANCE REDUCTION  <a href="https://arxiv.org/abs/2112.13097">https://arxiv.org/abs/2112.13097</a> <i>Accepted to SIAM Journal on Mathematics of Data Science (SIMODS).</i>	2021
FL_PYTORCH : OPTIMIZATION RESEARCH SIMULATOR FOR FEDERATED LEARNING  <a href="https://arxiv.org/abs/2202.03099">https://arxiv.org/abs/2202.03099</a>  <a href="https://dl.acm.org/doi/abs/10.1145/3488659.3493775/">https://dl.acm.org/doi/abs/10.1145/3488659.3493775/</a> <i>Accepted for presentation and proceedings to 2nd ACM International Workshop on Distributed Machine Learning</i>	2021
MARINA : FASTER NON-CONVEX DISTRIBUTED LEARNING WITH COMPRESSION  <a href="https://arxiv.org/abs/2102.07845">https://arxiv.org/abs/2102.07845</a>  <a href="https://proceedings.mlr.press/v139/gorbunov21a.html">https://proceedings.mlr.press/v139/gorbunov21a.html</a> <i>Accepted for presentation and proceedings to Thirty-eighth International Conference on Machine Learning, ICML 2021</i>	2021
PERSONALIZED FEDERATED LEARNING WITH COMMUNICATION COMPRESSION  <a href="https://arxiv.org/abs/2209.05148">https://arxiv.org/abs/2209.05148</a>	2021 – 2022