View Meta-Reviews

Paper ID
1253

Paper Title
Minibatch and Momentum Model-based Methods for Stochastic Nonsmooth Nonconvex Optimization

META-REVIEWER #1

META-REVIEW QUESTIONS

1. Please recommend a decision for this submission.
Reject

3. Please provide a meta-review for this submission. Your meta-review should explain your decision to the authors. It should augment the reviews and communicate how the reviews, author response, and discussion were used to arrive at a decision. Dismissing or ignoring a review is not acceptable unless you have a good reason for doing so. If you want to make a decision that is not clearly supported by the reviews, perhaps because the reviewers did not come to a consensus, please justify your decision appropriately, including, but not limited to, reading the submission in full and writing a detailed meta-review that explains your decision.
The paper does contain some novelty in the analysis, which established the linear speed up property of the stochastic model-based algorithms for non-smooth and non-convex problems under their assumption A5.

However, this assumption A5 also makes the result no general enough and not applicable to standard stochastic subgradient method for non-smooth problems. This should be clearly marked in the paper. That being said, for problems that satisfy the assumption A5, such as prox-linear method with a special structure of the objective function, having the linear speed is not surprising. The authors need to provide more evidence that such achievement is non-trivial.

Due to the high competitiveness of ICML, the paper is not recommended for acceptance. The authors are encouraged to try another venue.

8. I agree to keep the paper and supplementary materials (including code submissions), and reviews confidential, and delete any submitted code at the end of the review cycle to comply with the confidentiality requirements.
Agreement accepted

9. I acknowledge that my meta-review accords with the ICML code of conduct.
Agreement accepted