

SUBMISSION INSTRUCTIONS AND STYLE GUIDE FOR THE 2017 SIAM WORKSHOP ON DIMENSIONALITY REDUCTION

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Summary

This document provides instructions for preparing and submitting instructions for the [2017 SIAM Workshop on Dimensionality Reduction](#). To provide a uniform look for submissions, we ask that authors use the latex style class (<http://www.siam.org/meetings/dr17/siam-dr-article.cls>), which is documented here. The summary section of your document should give set the stage for your abstract in a few (2-3) sentences.

Additional details

The most effective way to address the curse of dimensionality is to reduce the dimension of the input parameter space. Fortunately, most real-world science and engineering models are amenable to dimension reduction. If the scientist identifies low-dimensional structures in the model's map from input parameters to output predictions, then she can exploit those structures to enable otherwise infeasible parameter studies. Such studies increase both credibility in model-based scientific predictions and confidence in model-based engineering decisions. Additionally, newly identified low-dimensional structures yield deeper insight into important model components, which improves experimental campaigns for useful, high-quality validation data.

Submissions

All submissions should be sent to easy-chair:

<https://www.easychair.org/conferences/?conf=dr17>

Research contributions Please submit a two page abstract. We expect these abstracts to be presented as either long talks, short talks, or posters. We will endeavor to include as much high quality work as possible in the conference.

Citations

If you wish to make citations, please use the standard `\cite` command [1]. We've set the bibliography in a small font to ensure it does not take unnecessary space and you

are welcome to use as much space beyond two pages for the bibliography as you'd like.

Figures

Just as in most latex two-column submissions, we have `figure` and `figure*` environments for single and double-column figures.

References

- [1] R. Tipireddy and R. Ghanem. Basis adaptation in homogeneous chaos spaces. *Journal of Computational Physics*, 259:304–317, 2014.