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# DPPy paper

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## Abstract

- MLOSS website
- JMLR author info
- JMLR author guide
- Companion paper of DPPy .
- The documentation can be found on Read the Docs.
- Continuous integration can be found on Travis.

**Keywords:** Determinatal Point Processes, Sampling

## 1. Intro

- Plot of citations (Macchi, Sosh, HKPV...)
- image/text subsampling depiction
- remark Misc/Exotics
- RSK, Random matrices, Spanning trees

## Acknowledgments

We would like to acknowledge support for this project from the XXXXX.

## 2. Definition

- DPP, k-DPPs
- Discrete
- Continuous (RMat for now)
- Sampling scheme
- pseudo code

## 3. Basic example

- Instanciate a DPP as DPP(mu, kernel)
- DPP.sample()
- Approximate sampling, basis exchange ...

## 4. Conclusion

## Appendix A.

Hough et al. (2006)

## References

J B Hough, M Krishnapur, Y Peres, and B Virag. Determinantal processes and independence. *Probability surveys*, 2006. URL http://arxiv.org/abs/0503110.