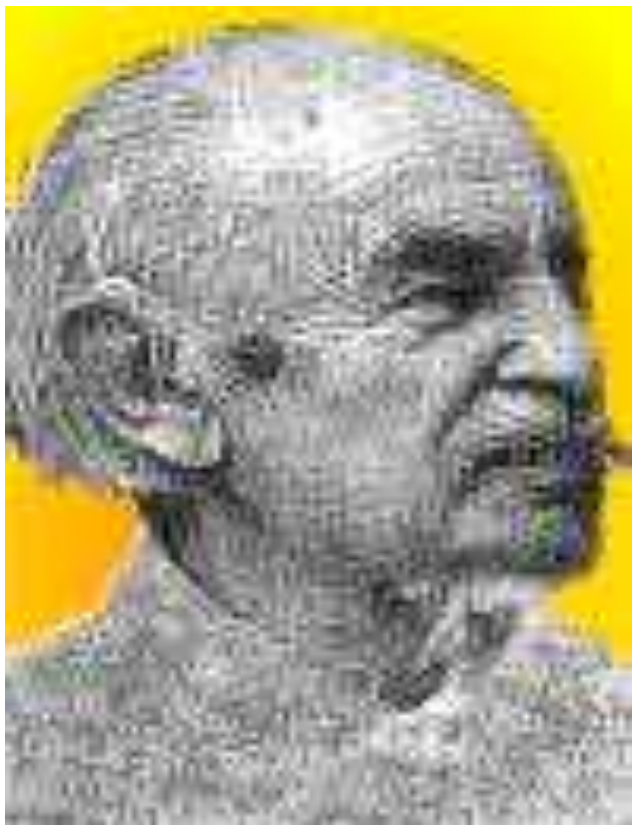


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**Authors: Mikołaj Malec, Maciej Paczórski, Bartosz Rożek**

# What is reproducibility

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<https://todayinsci.com>

"It [physics] really does depend upon accurate reproducible experiments, and upon framing hypotheses with the greatest possible freedom from dogmatic prejudice."

— Anthony Standen

# Plan

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- Methodology
- Magazines comparison
- Our guide-lines for magazines

# Methodology

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Comparison of 3 machine learning journals:

- R Jurnal
- Journal of Statistical Software
- Journal of Machine Learning Research (JMLR)

# Methodology

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We were looking in articles for elements such as:

- Source code
- Data available
- Packages available

# R Journal



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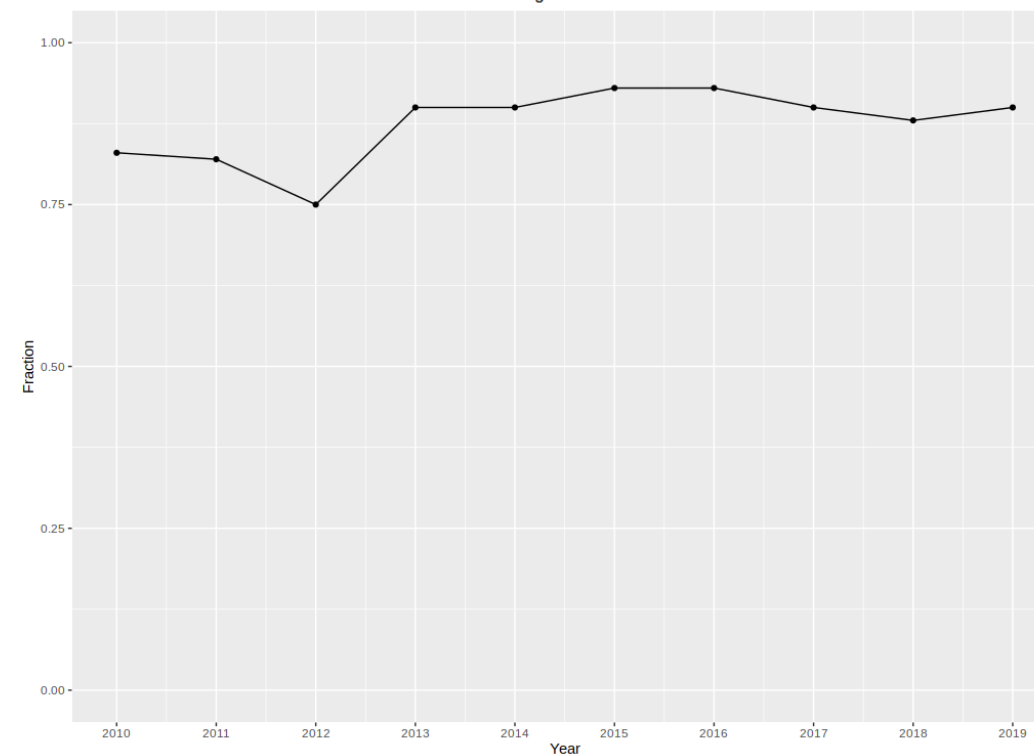
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[orthoDr: Semiparametric Dimension Reduction via Orthogonality Constrained Optimization](#) 

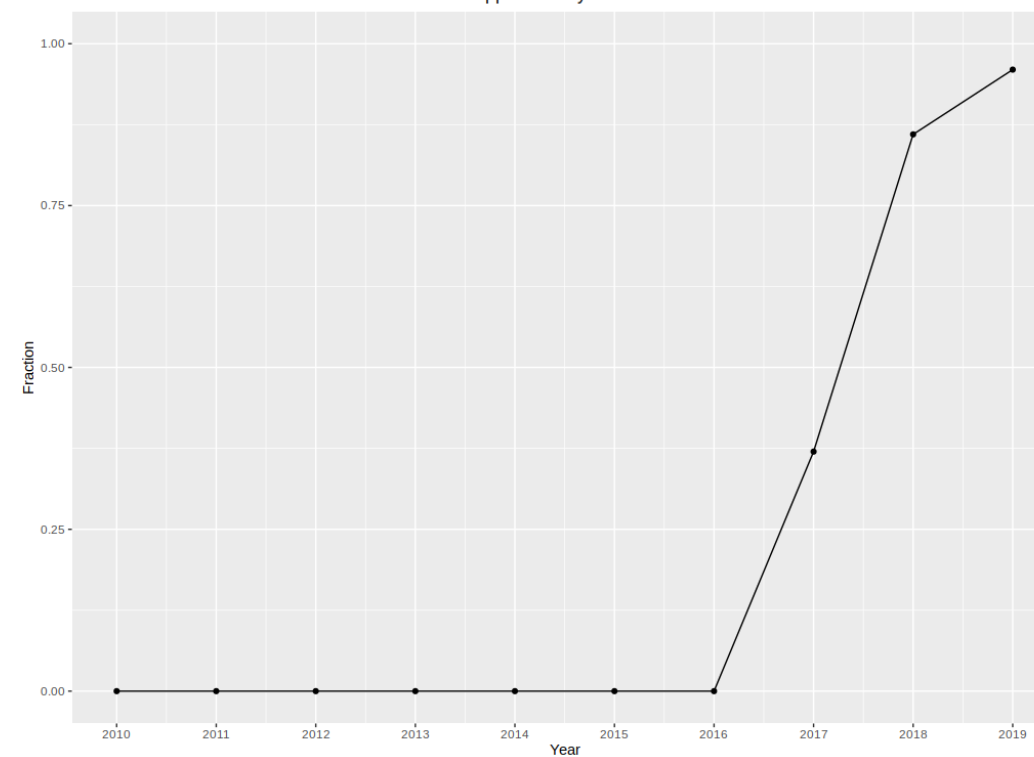
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Packages on CRAN



Supplementary materials



# Journal of Statistical Software

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## Archives

2020

[Vol 93 \(2020\)](#)

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2019

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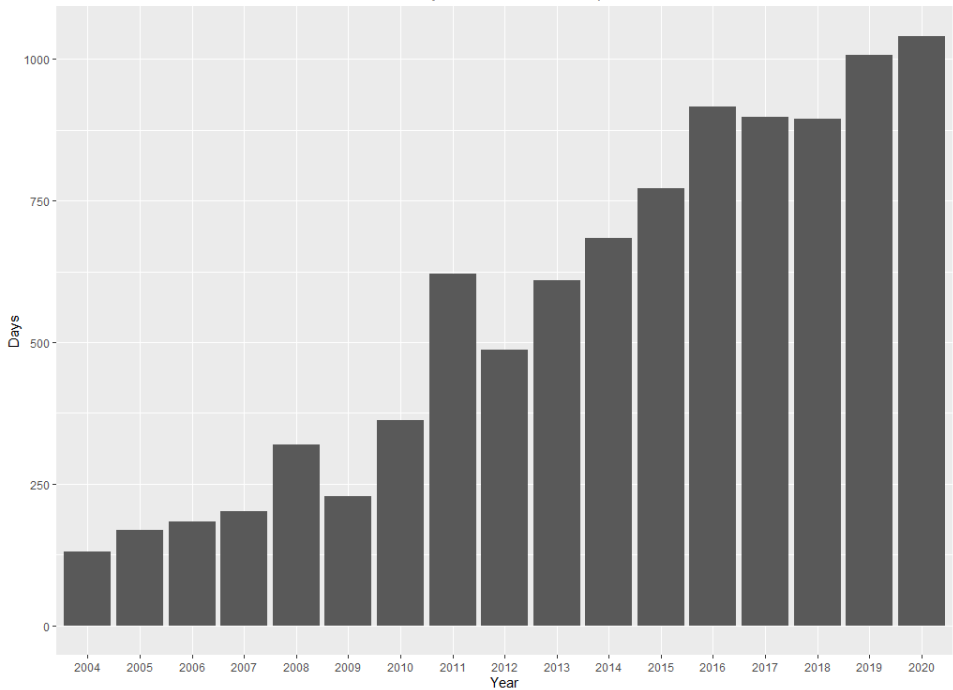
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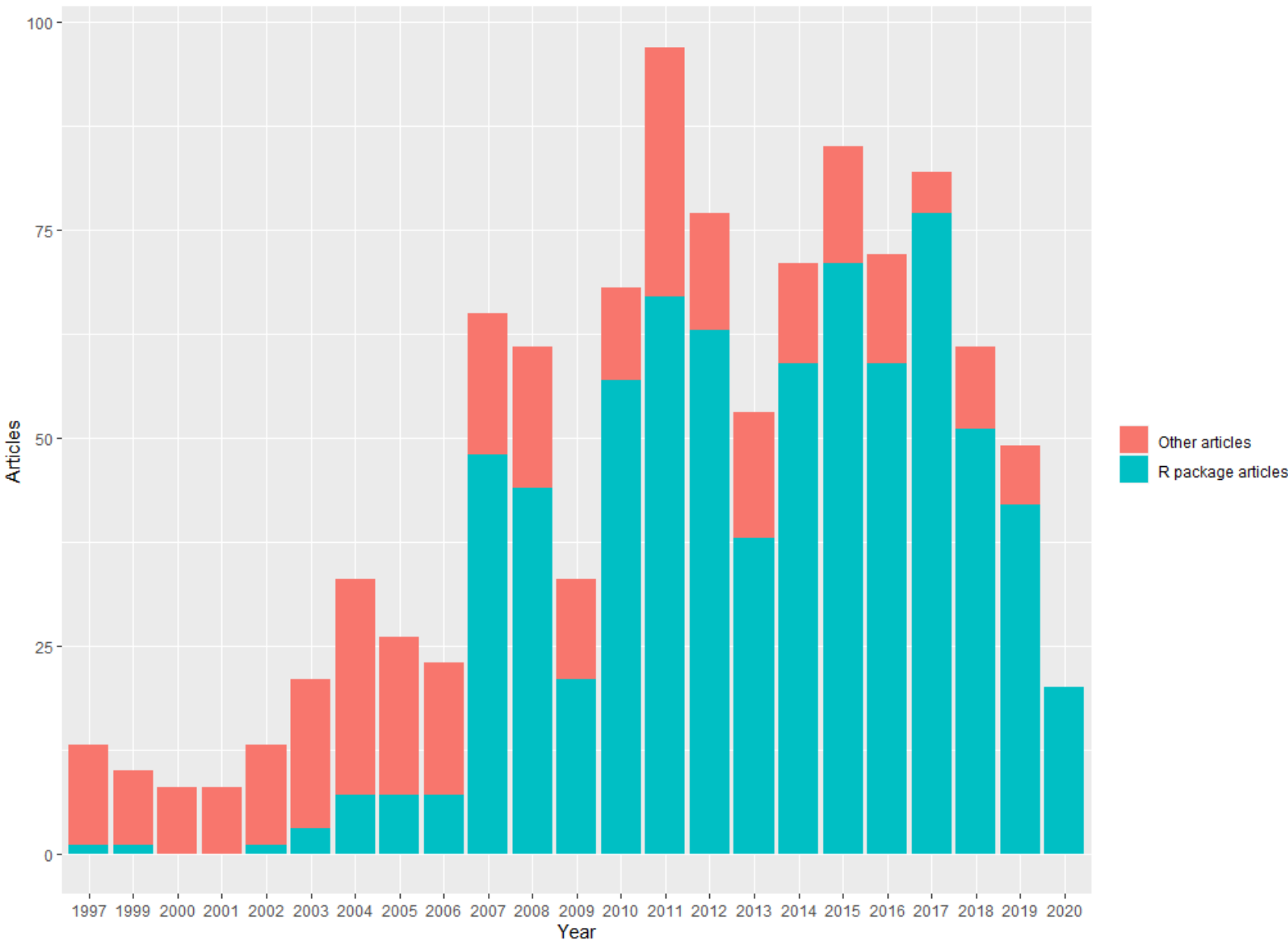
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Number of days from submission to publication



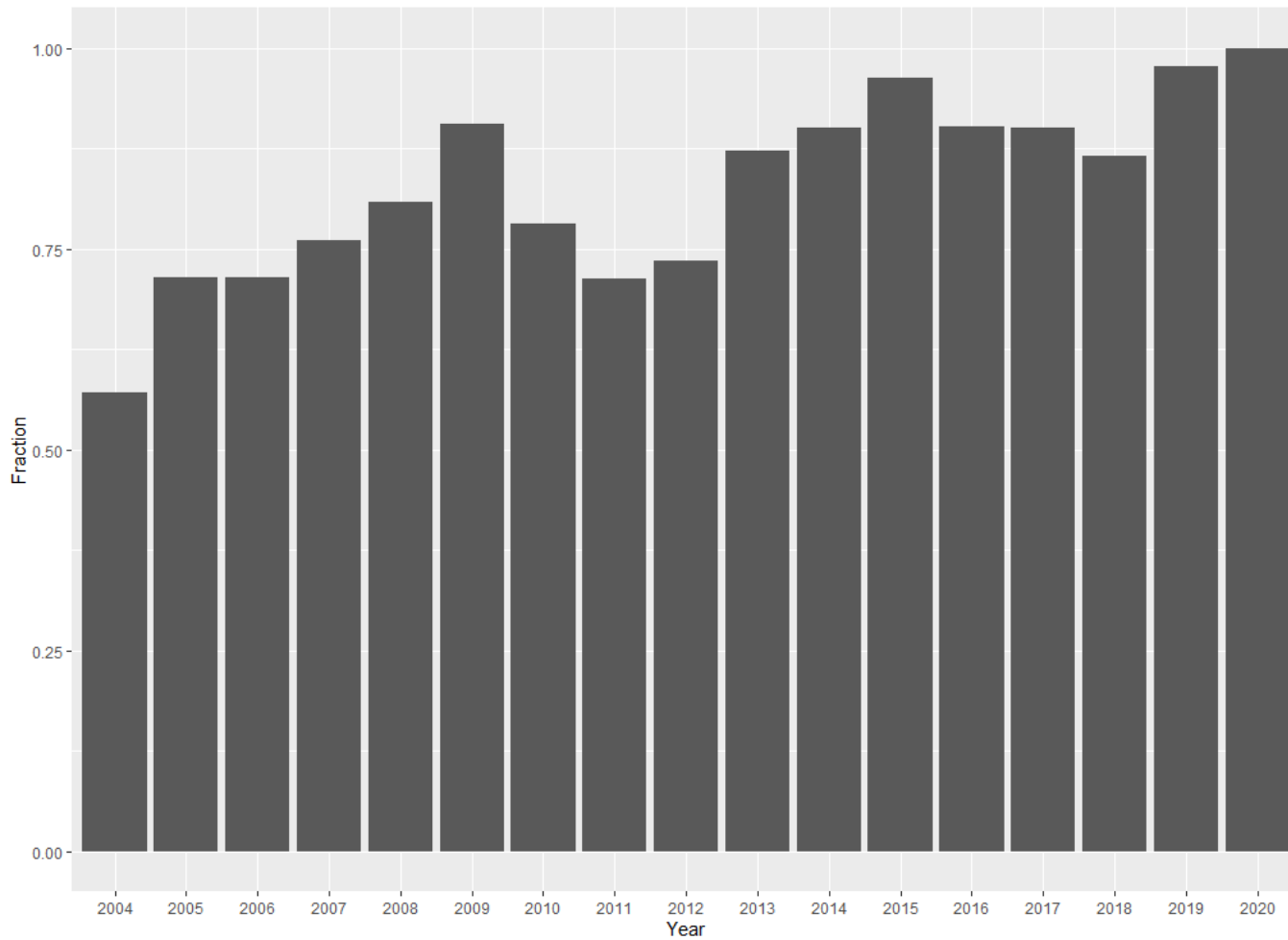
Number of articles per year



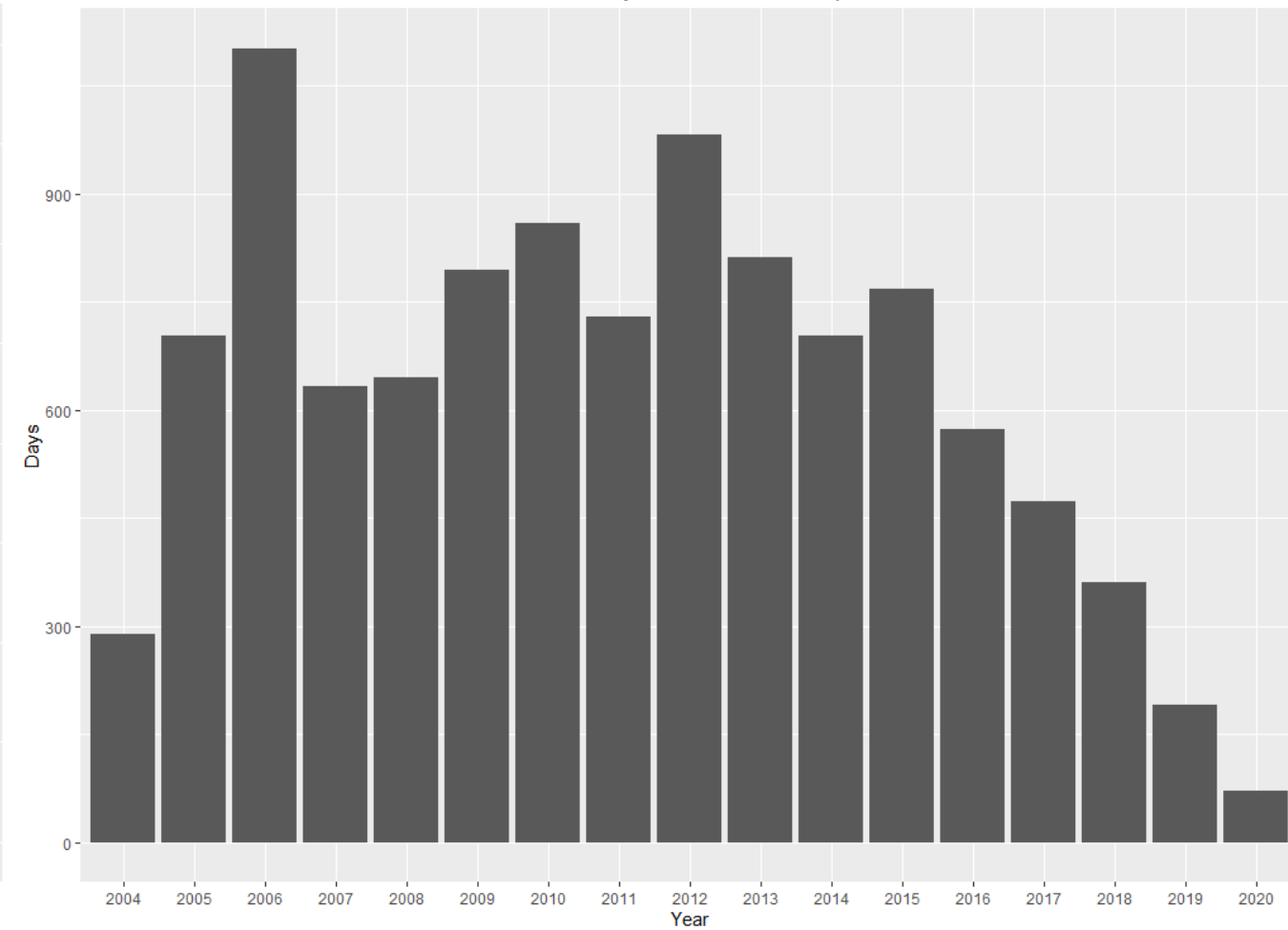
# Journal of Statistical Software

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Fraction of R packages still available on CRAN



Number of days since last CRAN update



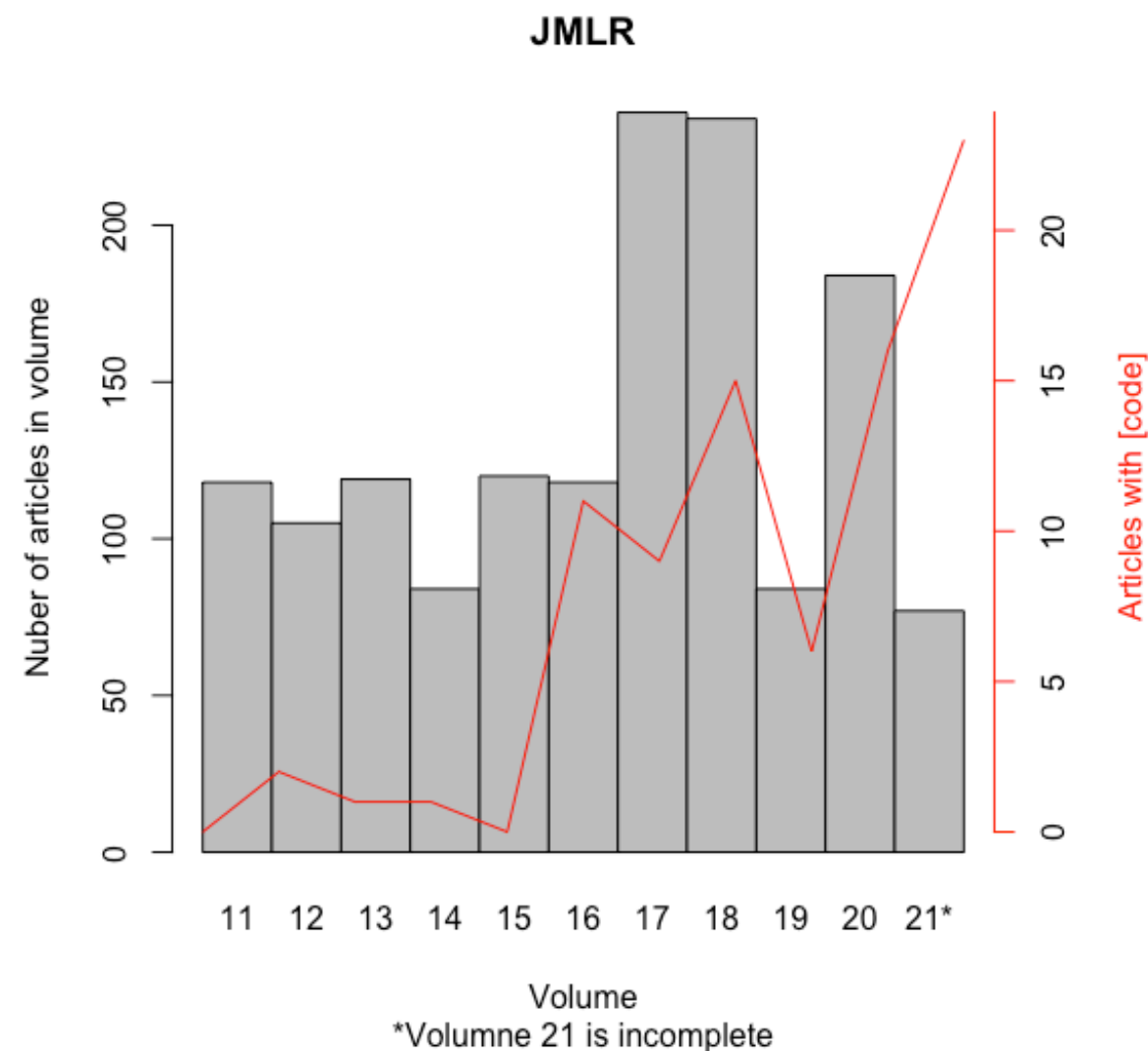


# Journal of Machine Learning Research




## JMLR Volume 21

<a href="#">Home Page</a>	A Low Complexity Algorithm with $O(\sqrt{T})$ Regret and $O(1)$ Constraint Violations for Online Convex Optimization with Long Term Constraints <i>Hao Yu, Michael J. Neely</i> ; (1):1–24, 2020. <a href="#">[abs]</a> <a href="#">[pdf]</a> <a href="#">[bib]</a>
<a href="#">Papers</a>	
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<a href="#">News</a>	
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<a href="#">Announcements</a>	
<a href="#">Proceedings</a>	Universal Latent Space Model Fitting for Large Networks with Edge Covariates <i>Zhuang Ma, Zongming Ma, Hongsong Yuan</i> ; (4):1–67, 2020. <a href="#">[abs]</a> <a href="#">[pdf]</a> <a href="#">[bib]</a>
<a href="#">Open Source Software</a>	
<a href="#">Search</a>	Lower Bounds for Parallel and Randomized Convex Optimization <i>Jelena Diakonikolas, Cristóbal Guzmán</i> ; (5):1–31, 2020. <a href="#">[abs]</a> <a href="#">[pdf]</a> <a href="#">[bib]</a>
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<a href="#">Contact Us</a>	Target Propagation in Recurrent Neural Networks <i>Nikolay Manchev, Michael Spratling</i> ; (7):1–33, 2020. <a href="#">[abs]</a> <a href="#">[pdf]</a> <a href="#">[bib]</a> <a href="#">[code]</a>



# Our guide-lines for magazines


- Source code
- Data available
- Packages available



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**Legend**




Available Not Available



All packages available




Removed from CRAN, but can be found in archive



'Object not found' error

## The R Journal: article published in 2019, volume 11:2

[orthoDr: Semiparametric Dimension Reduction via Orthogonality Constrained Optimization](#) 



Ruoqing Zhu, Jiyang Zhang, Ruilin Zhao, Peng Xu, Wenzhuo Zhou and Xin Zhang, *The R Journal* (2019) 11:2, pages 24-37. [Emails](#).


Abstract orthoDr is a package in R that solves dimension reduction problems using orthogonality constrained optimization approach. The package serves as a unified framework for many regression and survival analysis dimension reduction models that utilize semiparametric estimating equations. The main computational machinery of orthoDr is a first-order algorithm developed by Wen and Yin (2012) for optimization within the Stiefel manifold. We implement the algorithm through Rcpp and OpenMP for fast computation. In addition, we developed a general-purpose solver for such constrained problems with user-specified objective functions, which works as a drop-in version of optim(). The package also serves as a platform for future methodology developments along this line of work.

Received: ; online 2019-07-30, [supplementary material](#), (14.2 Kb), [data](#) (? Mb)

CRAN packages: [orthoDr](#), [Rcpp](#), [RcppArmadillo](#), [ManifoldOptim](#)

CRAN Task Views implied by cited CRAN packages: [NumericalMathematics](#), [HighPerformanceComputing](#)





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```
@article{RJ-2019-006,
  author = {Ruoqing Zhu and Jiyang Zhang and Ruilin Zhao and Peng Xu and
    Wenzhuo Zhou and Xin Zhang},
  title = {{orthoDr: Semiparametric Dimension Reduction via
    Orthogonality Constrained Optimization}},
  year = {2019},
  journal = {{The R Journal}},
  doi = {10.32614/RJ-2019-006},
  url = {https://doi.org/10.32614/RJ-2019-006},
  pages = {24--37},
  volume = {11},
  number = {2}
}
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