# Template for preparing your research report submission to PNAS using Overleaf

**Jan Kenda**[a] **and Andraž De Luisa**[b]

[a]University of Ljubljana, Faculty of Computer and Information Science, Ljubljana, Slovenia, jk—-@student.uni-lj.si ; [b]University of Ljubljana, Faculty of Computer and Information Science, Ljubljana, Slovenia, ad9366@student.uni-lj.si

This manuscript was compiled on May 11, 2020

**Please provide an abstract of no more than 250 words in a single paragraph. Abstracts should explain to the general reader the major contributions of the article. References in the abstract must be cited in full within the abstract itself and cited in the text.**

community | robustness | node centrality | ...

**T**his PNAS journal template is provided to help you write your work in the correct journal format. Instructions for use are provided below.

Note: please start your introduction without including the word "Introduction" as a section heading (except for math articles in the Physical Sciences section); this heading is implied in the first paragraphs.

## Related work

Node centrality: - bridgeness - betweenness - pagerank - community centrality (**?** ) - shapley values centrality (**?** ), (**?** )

Community robustness: - conductance (**?** ) - pairwise similarity (**?** ) - variation of information in perturbed networks (**?** )

Benchmark networks: - Girvan-Newman (**?** ) - Lancichinetti (LFR) (**?** ) - Affiliation graph model (**?** )

## Methods

- find communities in network (if we don't know them) - rank nodes with respect to a selected measure - remove best nodes - compare new communities with previous

## Results

## Discussion

## Conclusion

## Materials and Methods

...

**ACKNOWLEDGMENTS.** ...

www.pnas.org/cgi/doi/10.1073/pnas.XXXXXXXXXX

PNAS | **May 11, 2020** | vol. XXX | no. XX | **1–??**