

# A network generator for pandemic simulations

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**Abstract**—The abstract goes here.

**Index Terms**—Complex networks, epidemics.



## 1 HELPER FOR L<sup>A</sup>T<sub>E</sub>X USAGE

### 1.1 Short lines

Try to use shorter lines. There are two reasons for this. (i) L<sup>A</sup>T<sub>E</sub>X error messages is line based. If your line is too long, It becomes difficult to locate the error. (ii) git works line based. Any change in a line has to be processed. When more than one editor works in the same file, Longer lines increase the chances for collision. Start every sentence in a new line. If line gets too long, brake into new line. “That”, “where”, “and” are good candidates for breaking to a new line.

### 1.2 Citations and BibTeX

Sample of how to cite [1]. Bib file is defined at the end of this file with

```
bibliographystyleIEEEtran and
bibliographyhbTemplate-v01.bib.
```

This requires four compilations (i) L<sup>A</sup>T<sub>E</sub>X, (ii) BibTeX, (iii) L<sup>A</sup>T<sub>E</sub>X, and (iv) L<sup>A</sup>T<sub>E</sub>X.

### 1.3 Referencing with in the document

Sample of how to reference a figure Fig. 1. This requires two compilations (i) L<sup>A</sup>T<sub>E</sub>X, (ii) L<sup>A</sup>T<sub>E</sub>X.

Sample of how to reference an equation Eq. 1. This requires two compilations (i) L<sup>A</sup>T<sub>E</sub>X, (ii) L<sup>A</sup>T<sub>E</sub>X.

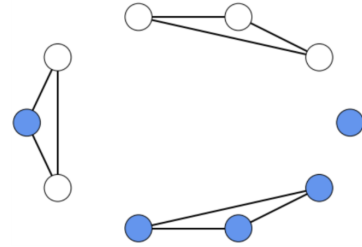


Fig. 1: Sample figure.

$$x = y \quad (1)$$

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## 1.4 Math

Use white space to make your math more readable. See the examples below:

This is in line math  $\frac{a}{b}$ . Note that there are two ways to do so with dollar and as  $x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ .

Display math can be done with this way

$$x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}.$$

Note the use of white spaces in the source.

For subscripts and superscripts always use left and right curly braces. That is, Not  $a^b$  but  $a^b$ .

## 2 IEEE SOURCES

See

- <https://journals.ieeeauthorcenter.ieee.org/create-your-ieee-journal-article/authoring-tools-and-templates/tools-for-ieee-authors/ieee-article-templates/>
- <https://journals.ieeeauthorcenter.ieee.org/create-your-ieee-journal-article/create-the-text-of-your-article/structure-your-article/>

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## REFERENCES

- [1] T. I. COVID, R. Reiner, R. Barber, and J. Collins, "Modeling covid-19 scenarios for the united states." *Nature medicine*, 2020.