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## Abstract

Sed non est ac erat varius mattis vestibulum tristique massa. Fusce leo elit, volutpat non massa nec, semper iaculis enim. Praesent commodo ante nec arcu dapibus dapibus commodo sit amet tellus. Donec auctor a ante non semper. Interdum et malesuada fames ac ante ipsum primis in faucibus. Nunc cursus dolor vitae massa fringilla semper. Ut nisl purus, porta id pretium tempus, porttitor sit amet felis. Maecenas nec leo faucibus, accumsan leo quis, rhoncus ante. Morbi a libero mollis, pellentesque tellus vel, consequat justo. Interdum et malesuada fames ac ante ipsum primis in faucibus.

## Keywords

magna condimentum; vel ligula; elementum

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## I INTRODUCTION

Please respect the guideline. Use the JIMIS' style to format the paper. You can use a « non-formatted copy » to replace the text by your own text in this template.

Otherwise, select your text and click on the “section” or “list” styles of JIMIS to format your text.

Each joint number and title of section or (sub-)subsection must be separated by 3 blanks.

## II SECTION

### 2.1 Subsection 1

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ullamcorper sit amet justo at hendrerit. Fusce ut arcu imperdiet nibh mollis tempus a aliquet tellus. Quisque pharetra cursus nisi, vel lobortis ante consectetur et. Vivamus sed congue neque. Proin pellentesque risus nec dui consequat rutrum. Vestibulum nunc diam, placerat quis auctor vel, faucibus non justo. Etiam dictum purus neque. Phasellus imperdiet mauris ligula, eu laoreet nisi elementum ut. Sed sed porta massa. Aenean faucibus risus ultrices ornare porta. Quisque faucibus ante a tincidunt vestibulum.

2.2 Subsection 2

2.2.1 Sub-subsection

Suspendisse vel dui nec felis molestie tincidunt. Vestibulum rutrum ligula lacus, ac molestie nulla fermentum ornare. Nulla non nunc euismod, porta lacus vestibulum, malesuada massa. Curabitur massa eros, rutrum sed lectus sed, volutpat semper metus. Mauris hendrerit aliquam commodo. Vivamus fermentum tempus pellentesque. Maecenas a hendrerit urna. In elit ipsum, ultrices non dolor in, pulvinar porttitor lacus. Nunc euismod nibh quis odio condimentum, a feugiat massa rutrum. Nulla erat erat, adipiscing vitae lectus id, consectetur fermentum elit. Nunc eu est eu neque dapibus semper.

III TABLES AND FIGURES

3.1 Tables

Insert centered Table 1 as follows.

	Sepal.Length	Sepal.Width	Petal.Length	Petal.Width
Setosa	5.006	3.428	1.462	0.246
Versicolor	5.936	2.770	4.260	1.326
Verginica	6.588	2.974	5.552	2.026

Table 1. Morbi malesuada diam at magna condimentum.

3.2 Figures

Use subfigures to group similar images into one figure. Make pictures with a good resolution, as possible closed to 300 dpi or use vector graphics. Ensure that all legends are readable and in English. The title must be followed by a dot.

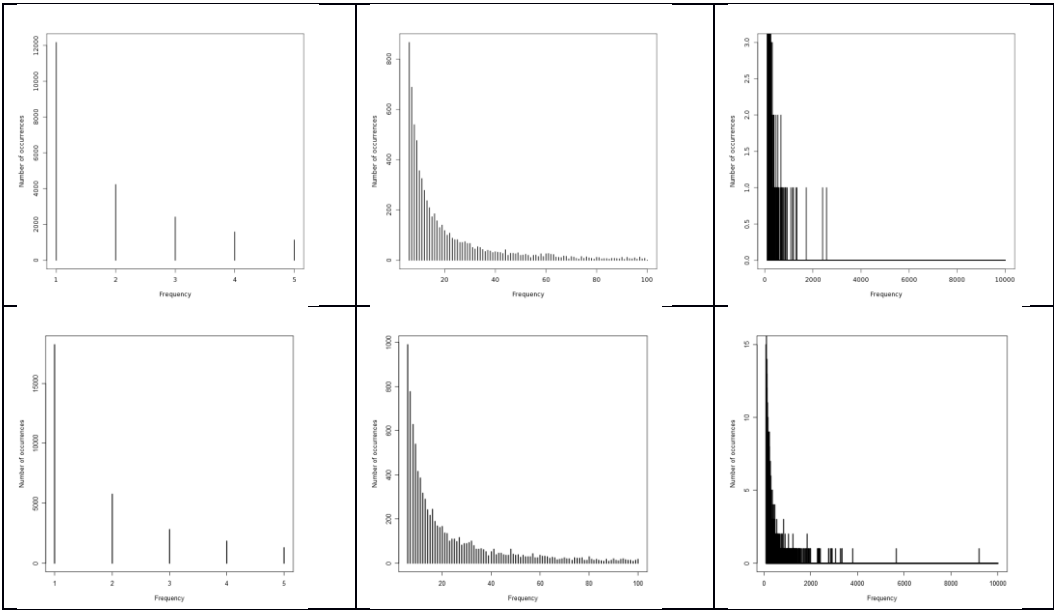


Figure 1: Fusce luctus purus a augue ullamcorper.

Insert centered images as characters.



Figure 2: A spider, Picture from Didier Josselin.

## IV DEFINITIONS, ALGORITHMS AND FORMULAS

### 4.1 Definitions

Here are a few definitions. Please use the JIMIS style « compacted text » if needed.

*Definition 1: alpha*

Curabitur ullamcorper sit amet justo at hendrerit.

Hence we set the following definition:

*Definition 2: beta*

Etiam sed nulla viverra, ultrices ligula ac, consectetur libero.

If you use a list, you need to write a dash or a bullet list:

- Nunc id justo scelerisque.
- metus id enim iaculis tristique.

### 4.2 Formulas

Example of formula:

$$Y = M.^t M - \beta. \langle M \rangle_l \quad (1)$$

where  $\langle M \rangle_l$  is a mean vector of a line from M.  $\beta$  plays as a regulation factor to regulate the rate of nearest neighbors, in fact the number of nearest neighbors is not defined explicitly.

Another example of formula:

$$K * N_c = Cst \pm 0.001\% \quad (2)$$

### 4.3 Algorithms

This is an algorithm:

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**Algorithm IV.1** Nearest-Neighbor Algorithm.

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**Input:**  
1: M: a sparse matrix terms x documents, with  $\dim(M)=(n,m)$  such that  $M[i,j]$  is the number of occurrences of a term  $i$  in the document  $j$ ,  
2: Min: minimum frequency  
3: Max: maximum frequency  
4: Beta: scaling factor  
5: Binary: 0 if real data, 1 if data are binary  
**Output:** Layout in 2-Dimensions  
# layout with Fruchterman algorithm  
6: Create a vector V, with  $\dim(V)=n$  such that  $\text{RowSums}(M[i,:]) \leq \text{Max}$  and  $\text{RowSums}(M[i,:]) \geq \text{Min}$   
7:  $M' = M[V > 0]$   
8: Create is a matrix terms x terms:  $TD = M' * t(M')$   
9: Compute Vm the mean vector by line with  $\dim(Vm) = n$  such that  $Vm[i] = \text{mean}(M[i,:])$  with  $M[i,j] \neq 0$  for all  $j$   
10: IF Bin = 1 Make scaling operation,  $TD\_norm = TD - \text{Beta} * Vm$   
11:  $TD\_norm = TD\_norm \geq 0$   
12: ELSE GoodVal =  $TD \geq -1 * \text{Beta} * Vm$  &  $TD \leq +1 * \text{Beta} * Vm$   
13:  $TD\_norm = TD * \text{good\_value}$   
14: Binary transform,  $TD\_norm[TD\_norm > 0] = 1$   
15: Keep positive values  $TD = TD\_norm[\text{rowSums}(TD\_norm) > 0]$   
16: Compute the mean of links per node,  $Nb\_mean\_link = \text{mean}(\text{rowSums}(TD))$   
17: Generate the layout Fruchterman for display with TD as adjacency matrix.  
# layout with DRL  
18: Create a vector V, with  $\dim(V)=n$  such that  $V[i] \leq \text{Max}$  and  $V[i] \geq \text{Min}$   
19: Create a binary clone M of M,  $M' = M[M > 1] <- 1$   
20: Create a vector V, with  $\dim(V)=n$  such that  $\text{RowSums}(M'[i,:]) \leq \text{Max}$  and  $\text{RowSums}(M'[i,:]) \geq \text{Min}$   
21:  $M'' = M'[V > 0]$   
22: Create matrix terms x terms:  $TD = M'' * t(M'')$   
23:  $TD' = TD[TD > 1] <- 1$   
24: Compute Vm the mean vector by line with  $\dim(Vm) = n$  such that  $Vm[i] = \text{mean}(TD'[i,:])$  with  $TD'[i,j] \neq 0$  for all  $j$   
25: IF Bin = 1 Make scaling operation,  $TD\_norm = TD' - \text{Beta} * Vm$   
26:  $TD\_pos = TD\_norm \geq 0$   
27: ELSE GoodVal =  $TD' \geq -1 * \text{Beta} * Vm$  &  $TD' \leq +1 * \text{Beta} * Vm$   
28:  $TD\_norm = TD * \text{good\_value}$   
29: Binary transform,  $TD\_norm[TD\_norm > 0] = 1$   
30: Keep positive values  $TD = TD\_norm[\text{rowSums}(TD\_norm) > 0]$   
31: Compute the mean of links per node,  $Nb\_mean\_link = \text{mean}(\text{rowSums}(TD))$   
32: Generate the layout DRL for display with TD as adjacency matrix.

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## V CONCLUSION AND REFERENCES

From Sinclair (1991) we pick up a general definition... Ounis et al. (2000) explain that... Wood and Napel (1992) recommend... Jimis proposes an interesting method in Jimis (2015)... All the references must be cited in the text.

### 5.1 Discussion

Nam id eros massa. Fusce luctus purus a augue ullamcorper, sit amet vehicula mauris tristique. Suspendisse eget pulvinar odio, nec bibendum turpis. Nullam quis lectus porttitor, ullamcorper nisi et, condimentum leo. Quisque sed orci fermentum, rutrum velit eget, ultricies augue. Nunc porttitor consectetur tincidunt. Nulla tincidunt justo enim, vitae dignissim erat mattis ut. Nulla.

### 5.2 Conclusion

Maecenas egestas metus id enim iaculis tristique. Etiam sed nulla viverra, ultrices ligula ac, consectetur libero. Nullam vitae massa ac odio pharetra condimentum. Maecenas in elementum libero, non gravida quam. Praesent adipiscing consectetur consectetur. Vivamus at orci sed augue varius hendrerit. Donec neque metus, dignissim nec erat at, ultricies consequat libero. Donec eget eleifend leo. Aliquam at nunc porta, mollis sapien eu, eleifend tortor. Nam egestas, metus ac pellentesque feugiat, lectus purus ornare est, vitae cursus felis turpis sit amet lacus.

Donec consequat massa mi, ac suscipit arcu posuere et. Vivamus et semper risus. Sed ut arcu quam.

## References (examples to follow)

- Biodiversa. <http://www.biodiversa.org/>. Accessed: 2014-08-29.
- PubMed. <http://www.ncbi.nlm.nih.gov/pubmed>. Accessed: 2014-08-29.
- Hentschel J., Paton J., Schneider H., Heinrichs J. (2007). Acceptance of *liochlaena nees* and *solenostoma mitt.*, the systematic position of *eremonotus pearson* and notes on *jungermannia l. s.l.* (*jungermanniidae*) based on chloroplast dna sequence data. *Plant Systematics and Evolution* 268(1–4), 147–157.
- Jimis J. (2015). Cross-interdisciplinary. In J. Jamy and J. Jany (Eds.), *Journal of Interdisciplinary Methodologies and Issues in Science* (A first Issue about Interdisciplinary Methodologies and Issues in Science ed.), Volume 0, pp. 1–25. Episciences. <http://jimis.episciences.org>.
- Jones S. A. (2002). *A corpus-based perspective*. London: Routledge.
- Justeson J., Katz S. (1991). Co-occurrence of antonymous adjectives and their contexts. *Computational Linguistics* 17(1), 1–19.
- Ounis A., Cerovic Z., Briantais J., Moya I. (2000, June 16–17). DE-FLIDAR: a new remote sensing instrument for estimation of epidermal UV absorption in leaves and canopies. In *Proceedings of EARSeL-SIG-Workshop LIDAR*, Dresden/FRG.
- Perotti J. I., Tessone C. J., Caldarelli G. (2015). Hierarchical mutual information for the comparison of hierarchical community structures in complex networks. *arXiv physics.soc-ph*, 1508.04388.
- Petrone C., D'imperio M. (2015, August). Effects of syllable structure on intonation identification in Neapolitan Italian. In *18th International Congress of Phonetic Sciences*, Glasgow, United Kingdom. HAL-01191886,v1.
- Sinclair J. (1991). *Corpus, concordance, collocation*. Oxford: Oxford University Press.
- Team R. C. (2013). *R: A language and environment for statistical computing*. Vienna, Austria: R Foundation for Statistical Computing. <http://www.R-project.org>.
- Wood S., Napel S. (1992). Artifacts and illusions in surface and volume rendering. In *Engineering in Medicine and Biology Society, 1992 14th Annual International Conference of the IEEE*, Volume 5, pp. 2091–2092.

## A Appendix 1

Pellentesque dignissim ultrices fringilla. Vivamus eu luctus ante, vel bibendum magna. Curabitur elit purus, tincidunt non dui vitae, elementum bibendum neque. Curabitur ullamcorper sit amet justo at hendrerit. Fusce ut arcu imperdiet nibh mollis tempus a aliquet tellus. Quisque pharetra cursus nisi, vel lobortis ante consectetur et. Vivamus sed congue neque. Proin pellentesque risus nec dui consequat rutrum. Vestibulum nunc diam, placerat quis auctor vel, faucibus non justo. Etiam dictum purus neque. Phasellus imperdiet mauris ligula, eu laoreet nisi elementum ut. Sed porta massa. Aenean faucibus risus ultrices ornare porta. Quisque faucibus ante a tincidunt vestibulum. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

## B Acknowledgment

We thank a lot Episciences for its support and the colleagues of JDMDH for the first version of this guideline.

## C Biography

Here, feel free to add short biographies of the authors.