Praca domowa nr 1

Wojciech Szczypek

29 03 2020

Artykuł nr 1

fclust: An R Package for Fuzzy Clustering

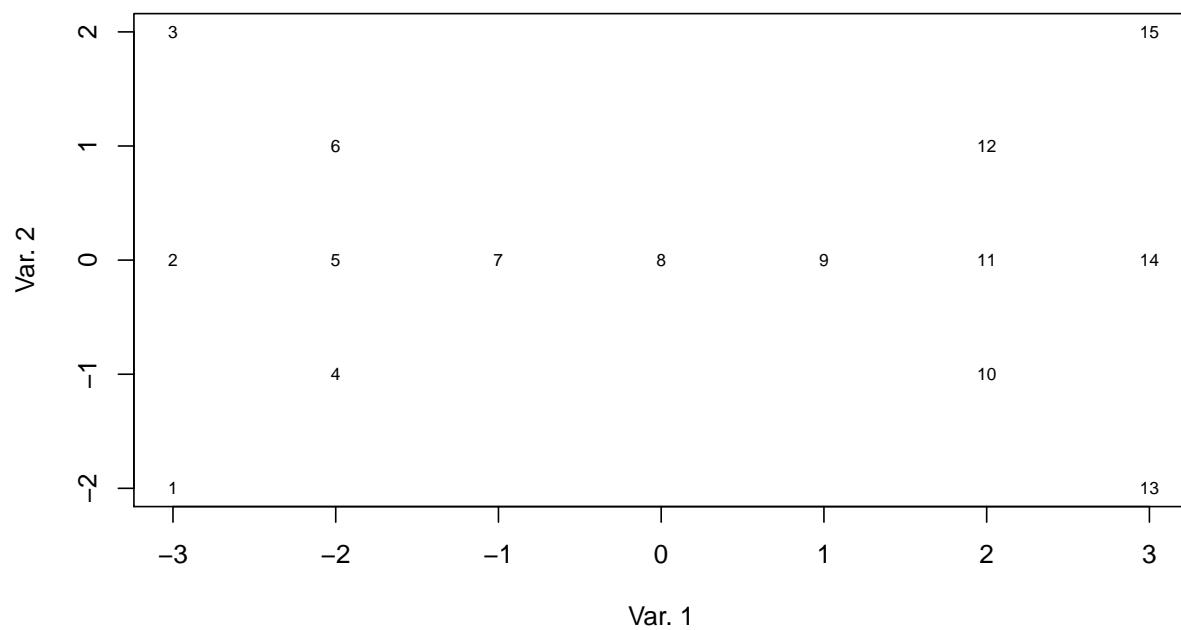https://journal.r-project.org/archive/2019/RJ-2019-017/RJ-2019-017.pdf

Figure 1

Figure 2

```
## The default value k=2:6 has been set
## The default value alpha=1 has been set for computing SIL.F
```
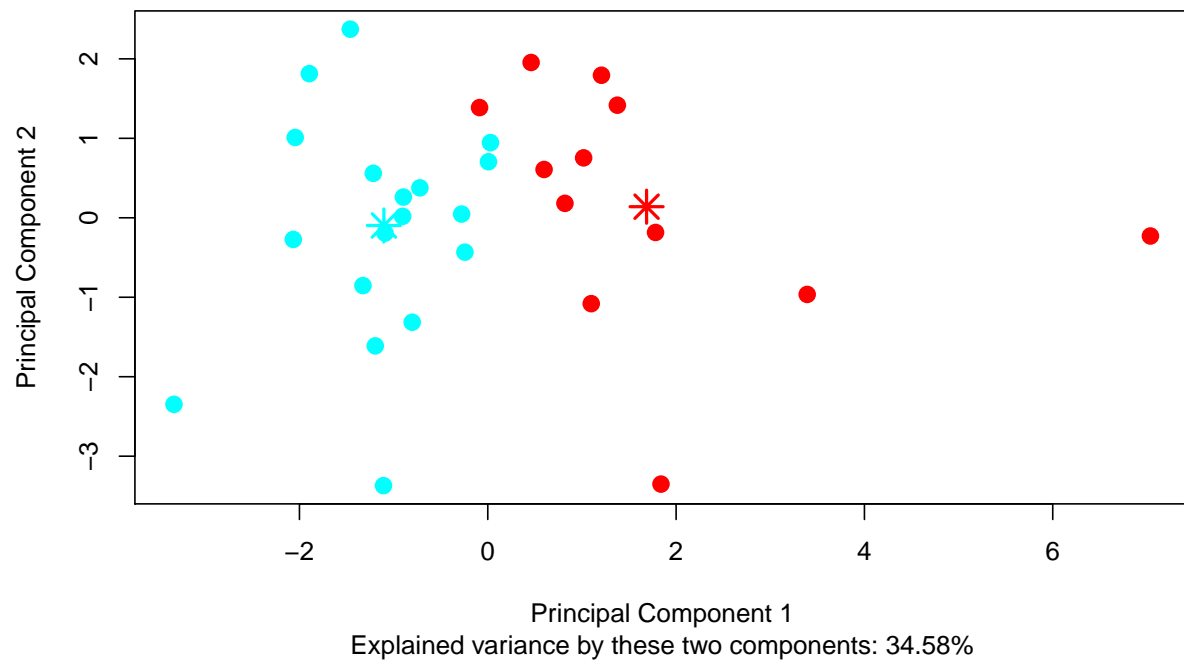
Principal Component 1
Explained variance by these two components: 34.58%
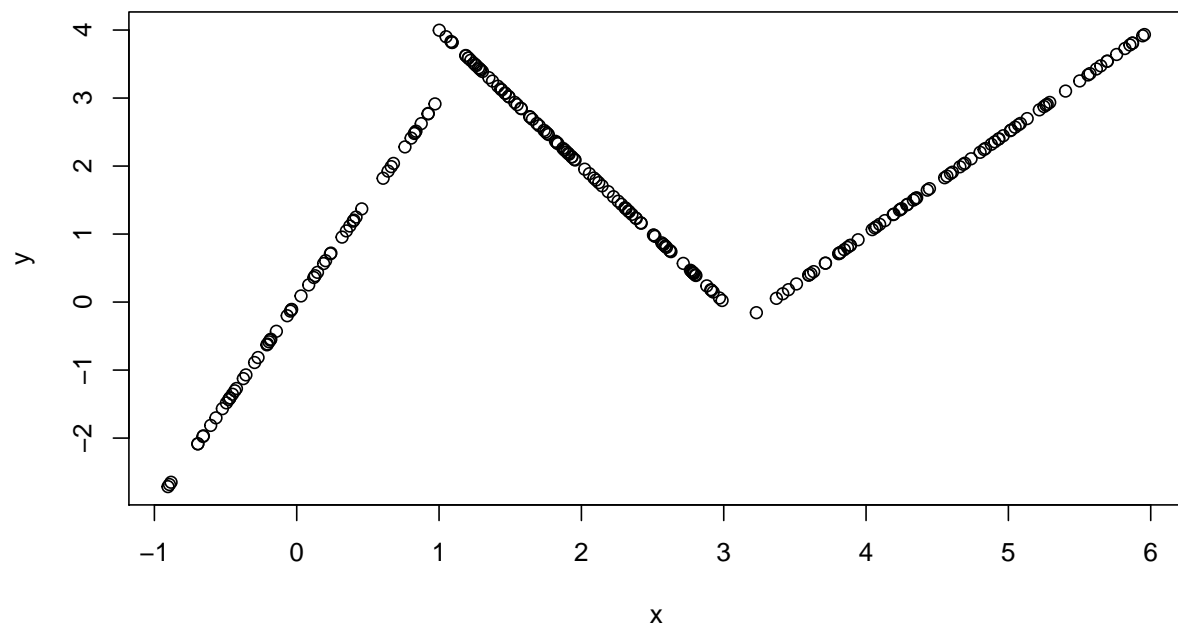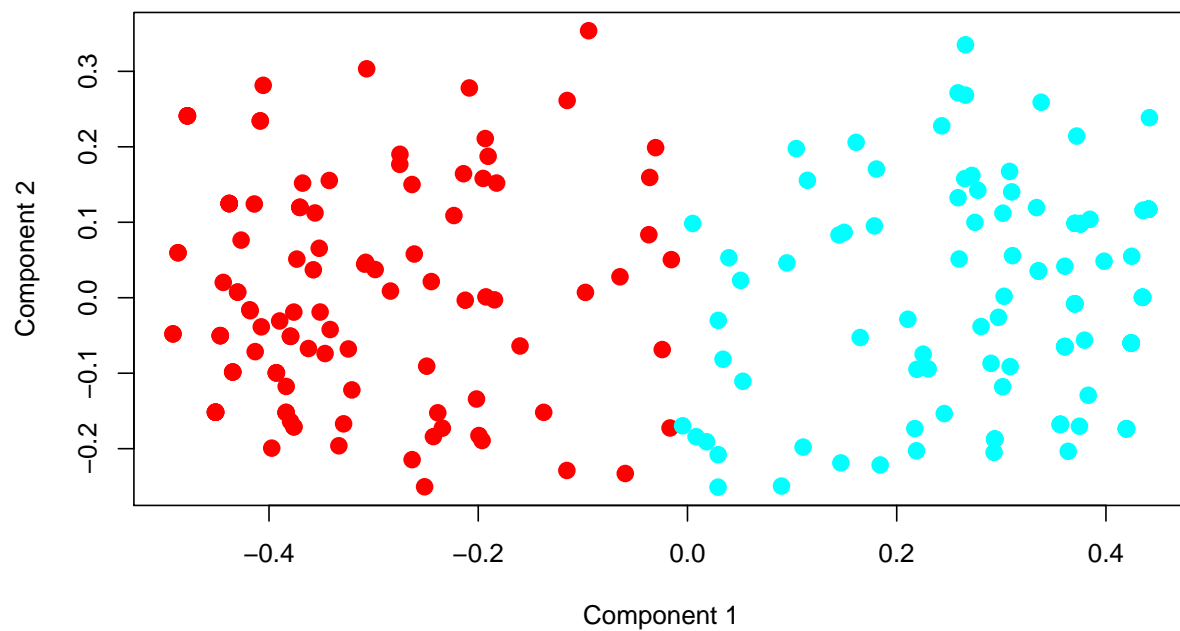
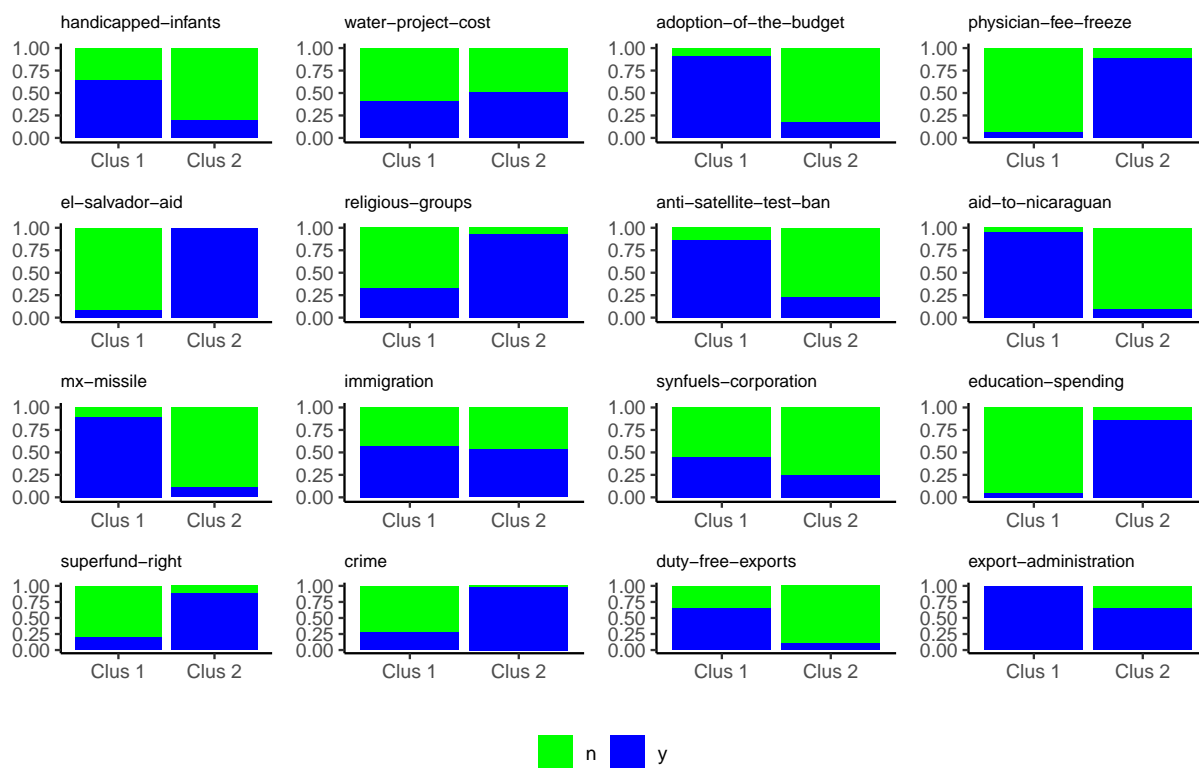**Figure 3**

Figure 4

Figure 5

Conclusion

I managed to reproduce all of the plots and tables, which were mentioned in the article without any troubles. The only thing, that surprised me was the fact, that i had outdated version of R, thus i couldn't install some of the required packages. However, after updating R to the newest version everything went well. Thus, we can call this article reproducable, even if it comes to the strictest definition in the sense of detail.

Article nr 2

Time-Series Clustering in R Using the dtwclust Package

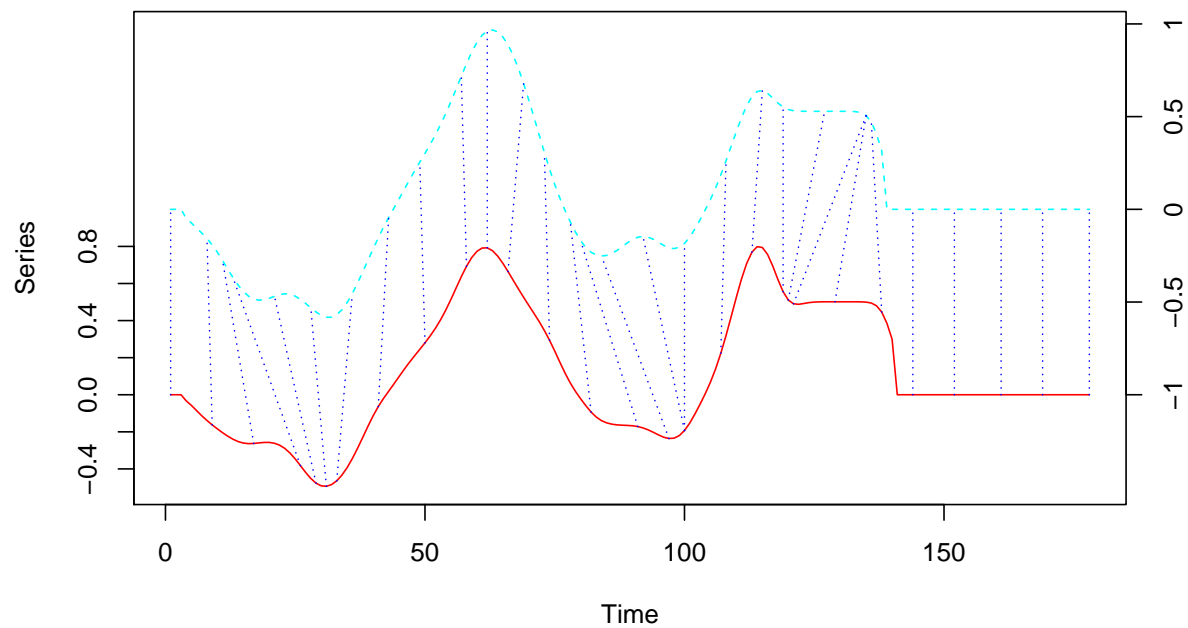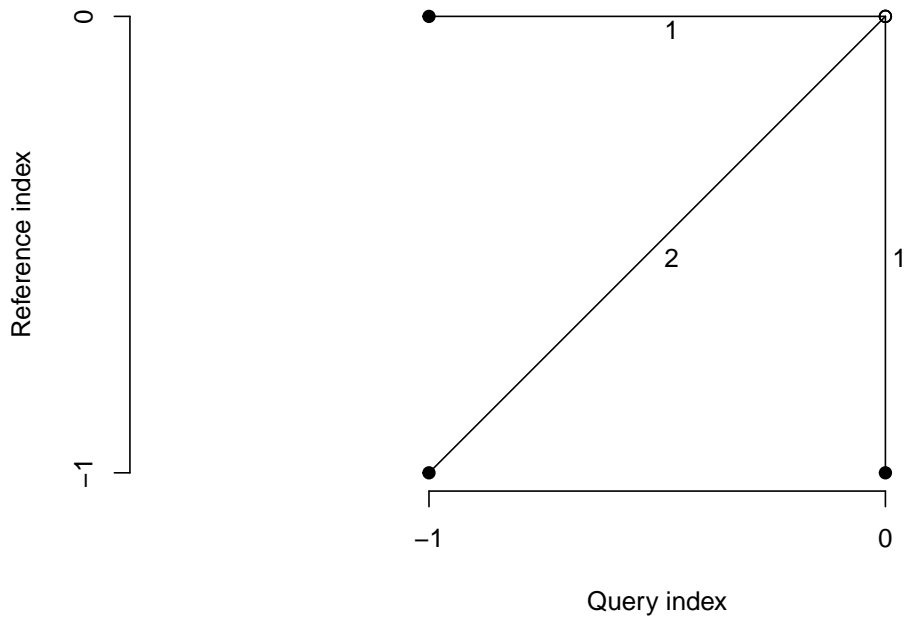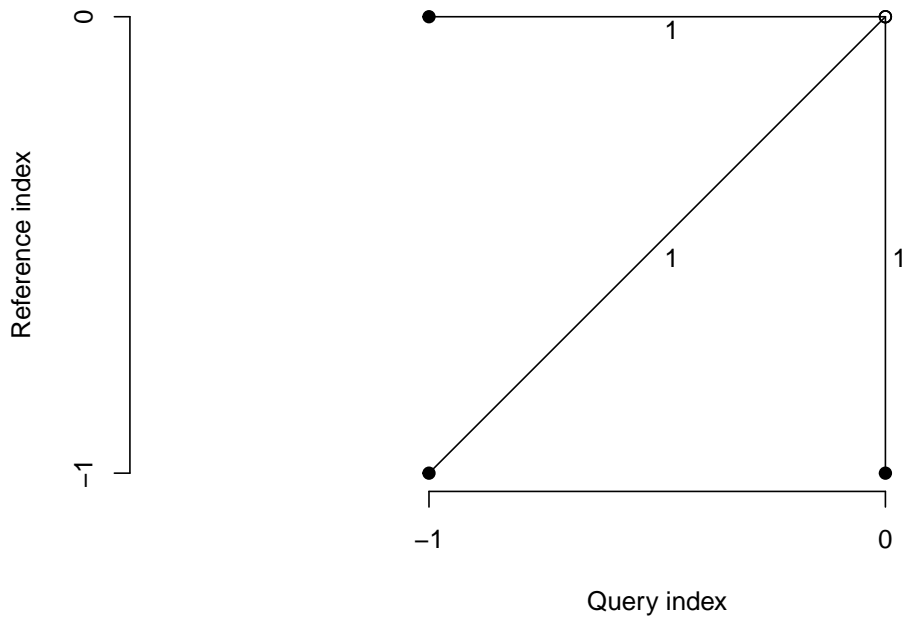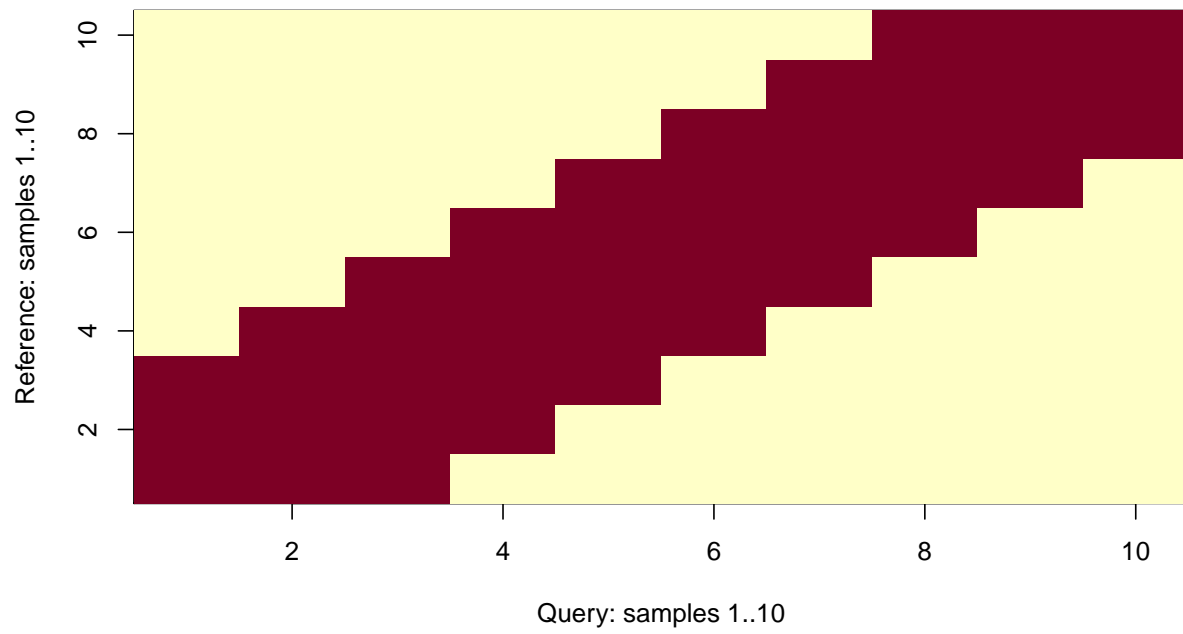https://journal.r-project.org/archive/2019/RJ-2019-023/RJ-2019-023.pdf

Figure 1

Figure 2
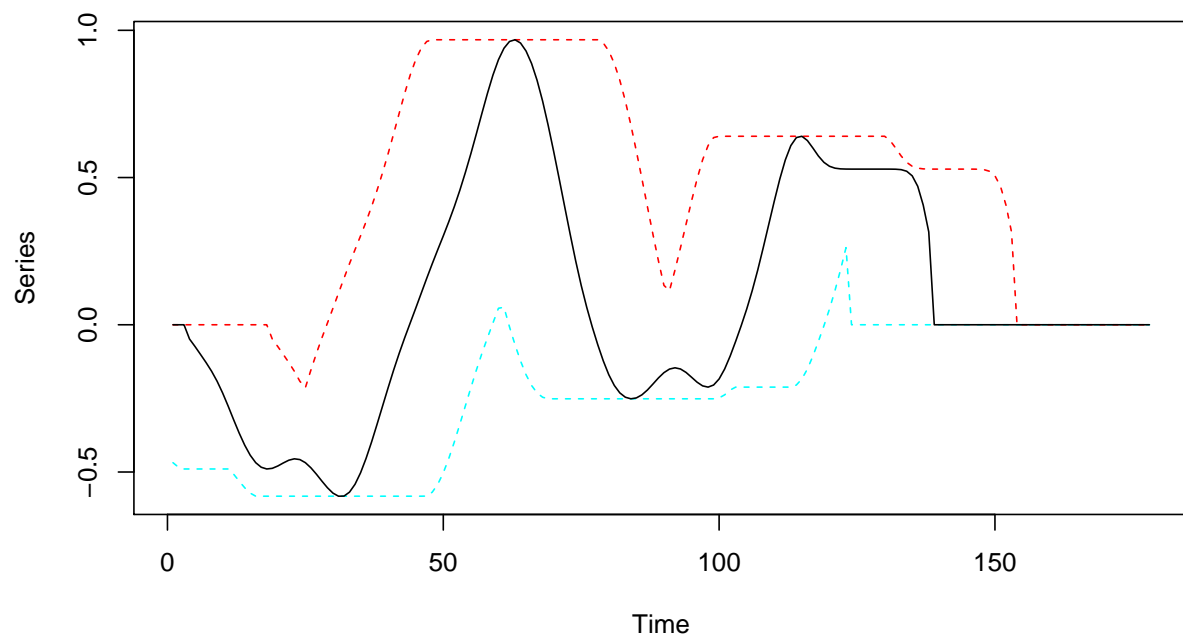
Figure 3
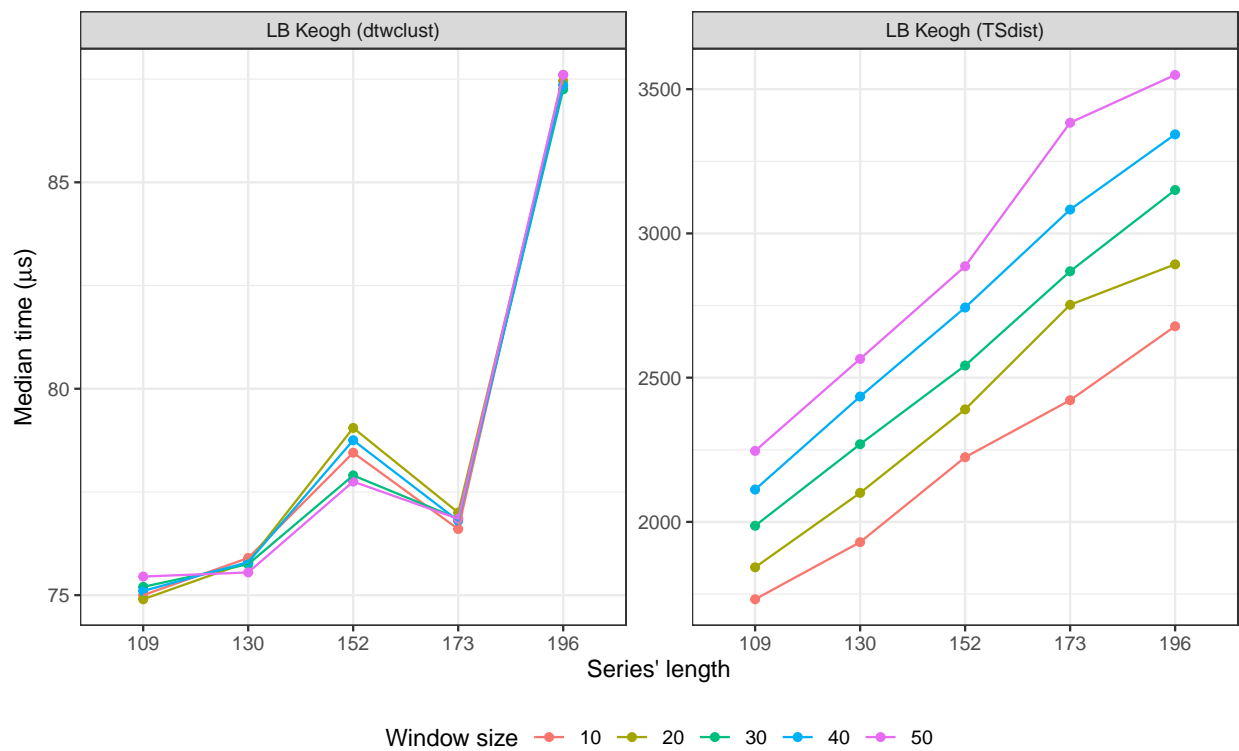
Figure 4

Figure 5

Figure 6

Figure 7

Figure 8

Figure 9

Conclusions

It's the next example of the article which could be easily reproduced. Thanks to the supplementary material, which could be downlaoded from the 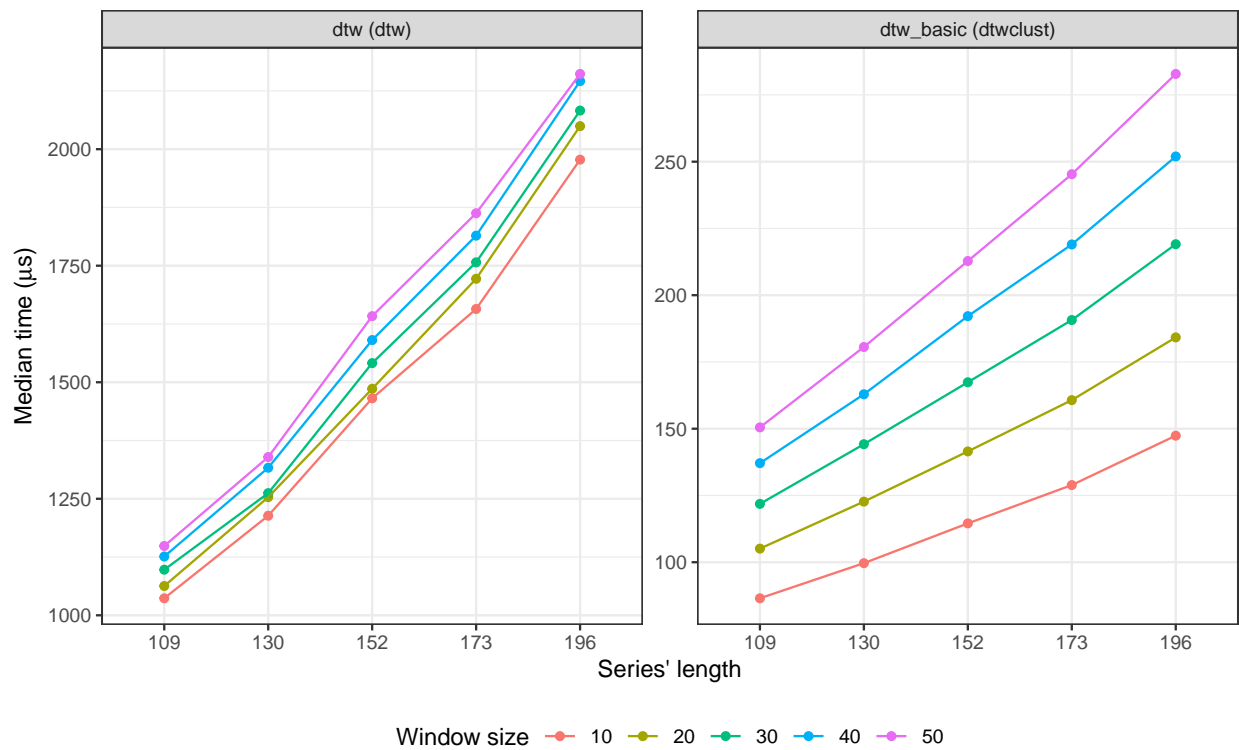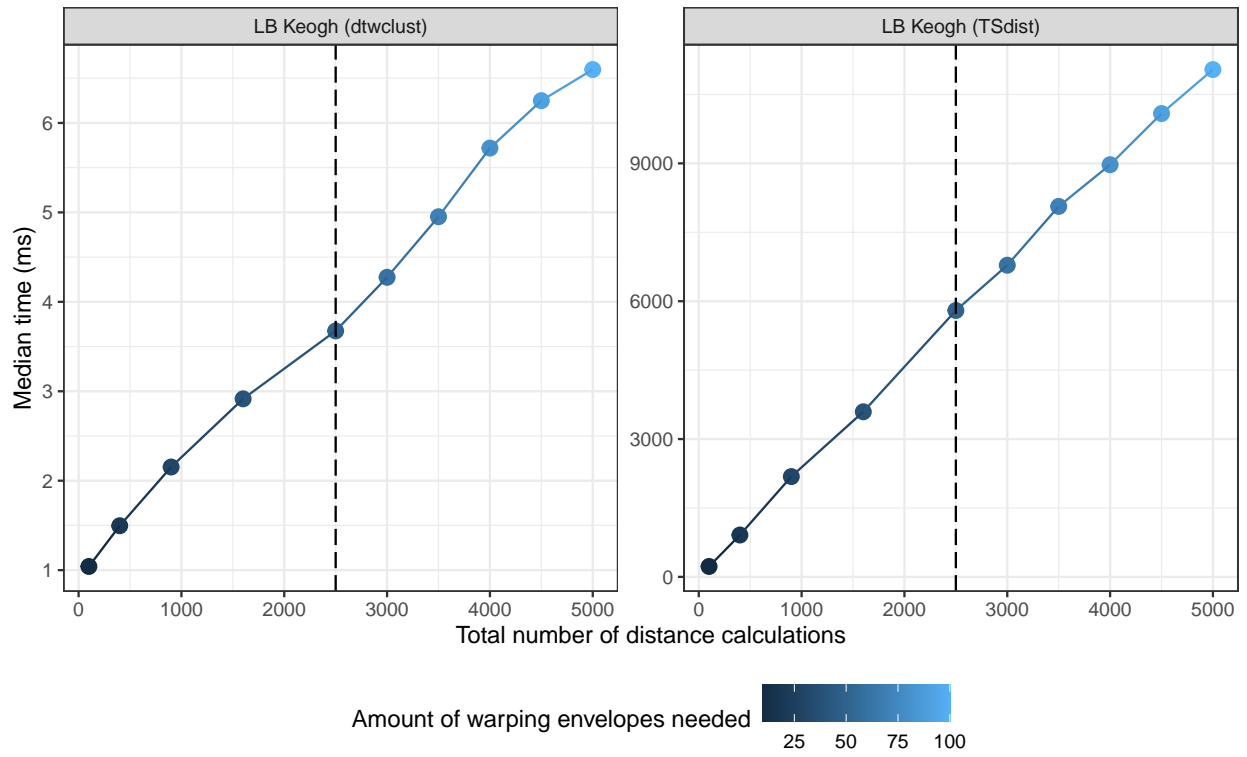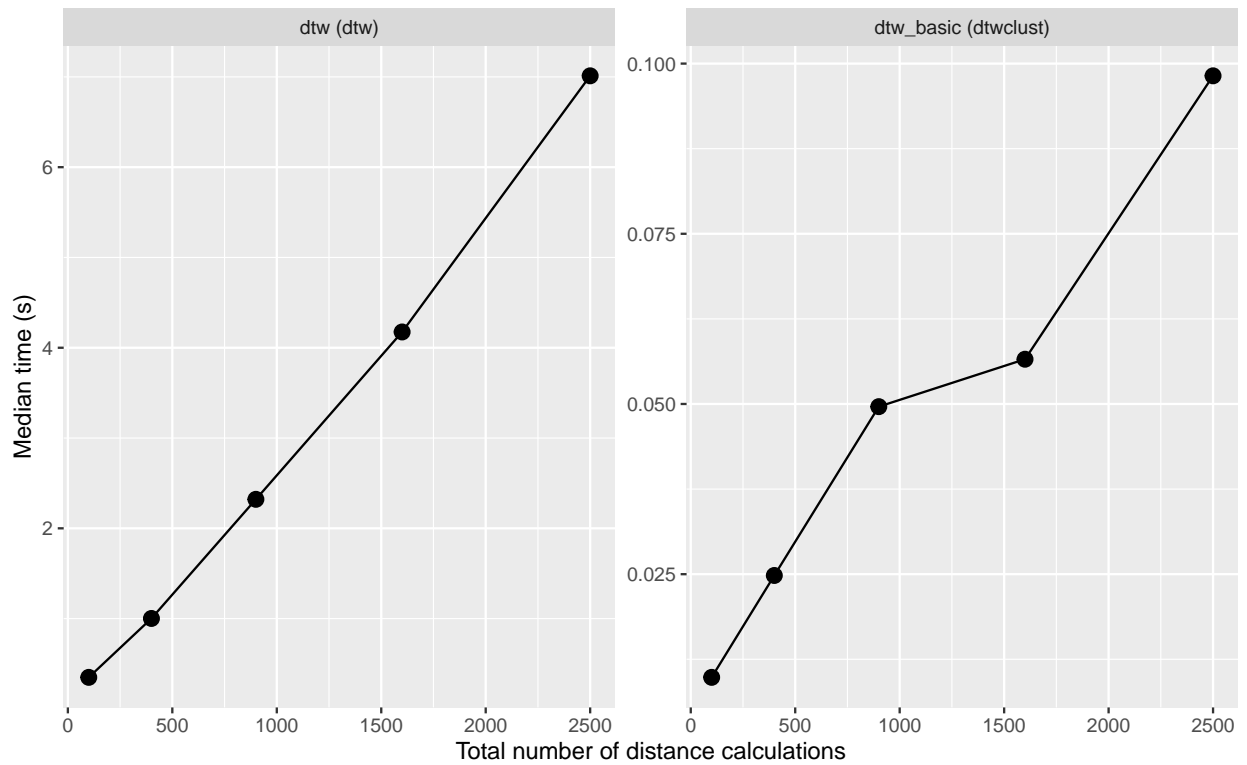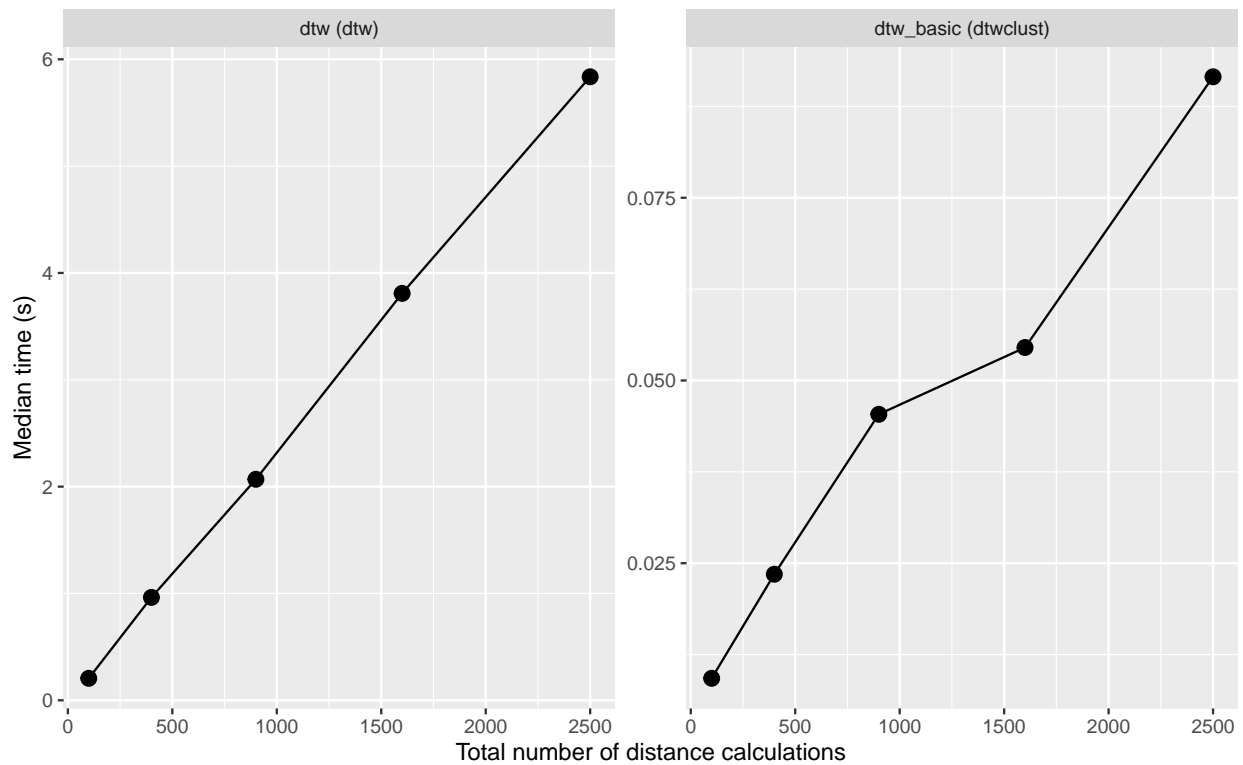R Journal it was even easier than usually. However some of the figures required more time to be drawn, thus some machines may require more time than others and reproducing may be much longer. Despite the fact, the article is by no means reproducible.

Article nr 3

Raster Images in R Graphics

https://journal.r-project.org/archive/2011/RJ-2011-008/RJ-2011-008.pdf

Figure 1

Figure 2

Figure 3

Figure 4?

Figure 5

Figure 6

Error using packet 1
nie udalo sie znalezc funkcji 'grid.raster'

Figure 7

Error using packet 1
nie udalo sie znalezc funkcji 'grid.raster'
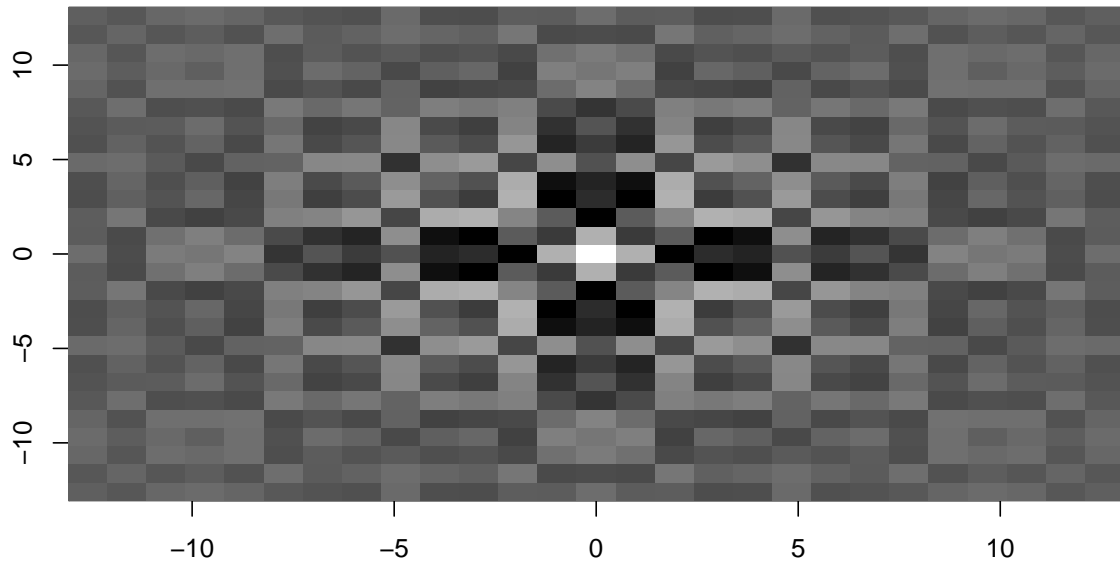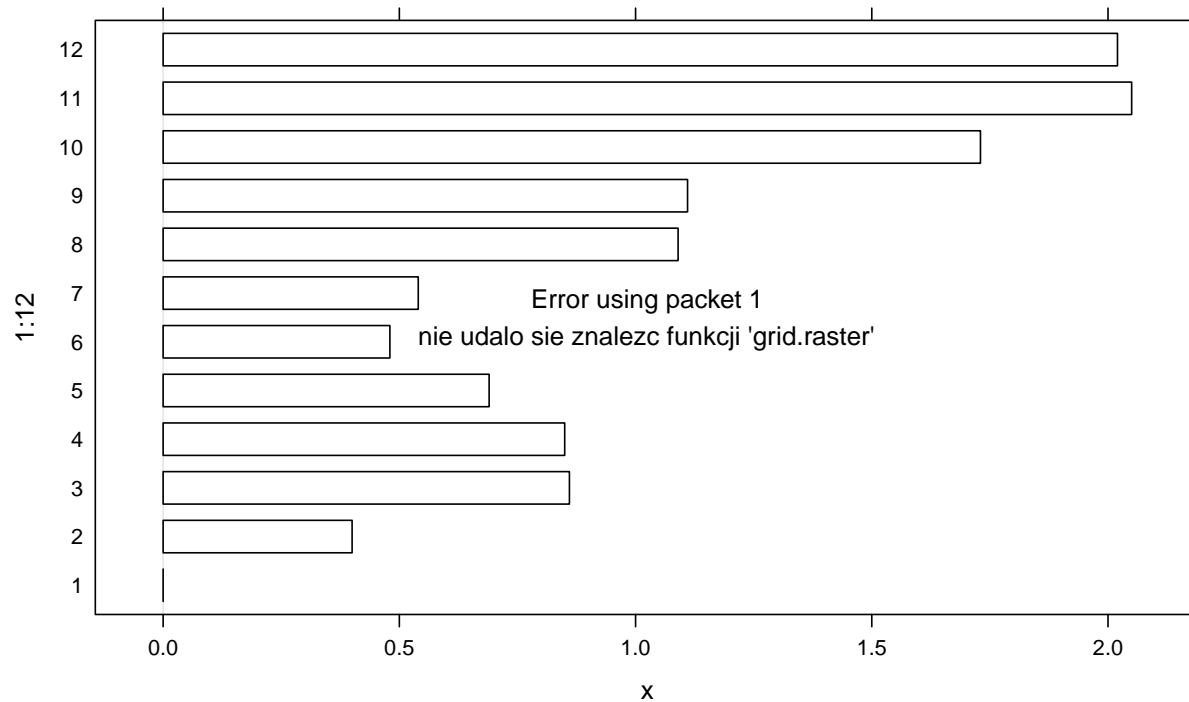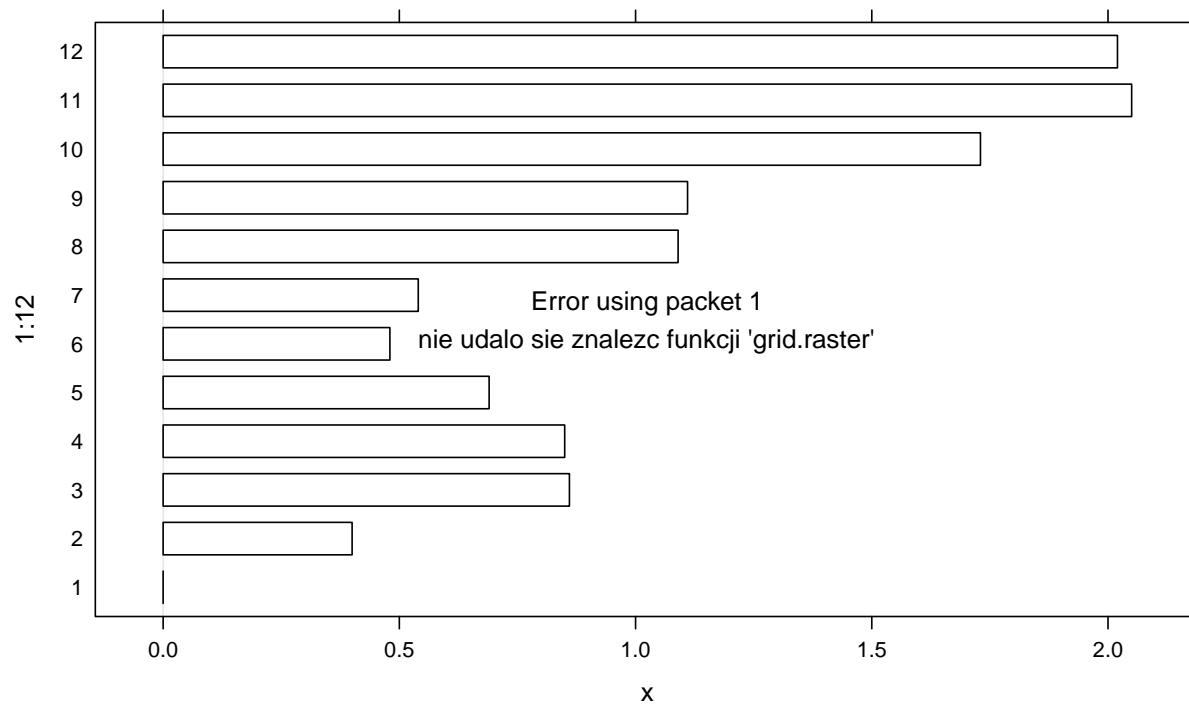
Figure 8?

Conclusions

As we can see above, some of the figures haven't finally appeared. Both required grid pack that isn't not supported by my R version so as for now it's impossible for me to reproduce this article. Moreover on the R journal website of this article there were no supplementary materials, so reproducing all of the codes was more difficult, because I had to follow the code whcich was in the article itself. It was carelessly formated, so it was quite annoying. However if we take into account that the article is from 2010, then it's not as bad as it could be. In my opinion, this is the perfect example of the article whcich is not easily reproducable and can cause troubles to people who would like to achieve the same results as in the article.