

realnetdata

Etienne Côme

10 septembre 2019

```
library(greed)
library(future)
plan(multisession)
library(ggplot2)

## Registered S3 methods overwritten by 'ggplot2':
##   method      from
##   [.quosures   rlang
##   c.quosures   rlang
##   print.quosures rlang

library(ggpubr)

## Loading required package: magrittr

library(greed)
library(dplyr)

##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##   filter, lag

## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union

library(Matrix)

data("Blogs")
fit_blogs = greed(Blogs$X,model=new("dcsbm"),alg=new("hybrid",pop_size=50))
data("Books")
fit_books = greed(Books$X,model=new("dcsbm"),alg=new("hybrid",pop_size=50))
data("Football")
fit_foot = greed(Football$X,model=new("dcsbm"),alg=new("hybrid",pop_size=50))
data("Jazz")
fit_jazz = greed(Jazz,model=new("dcsbm"),alg=new("hybrid",pop_size=50))
```

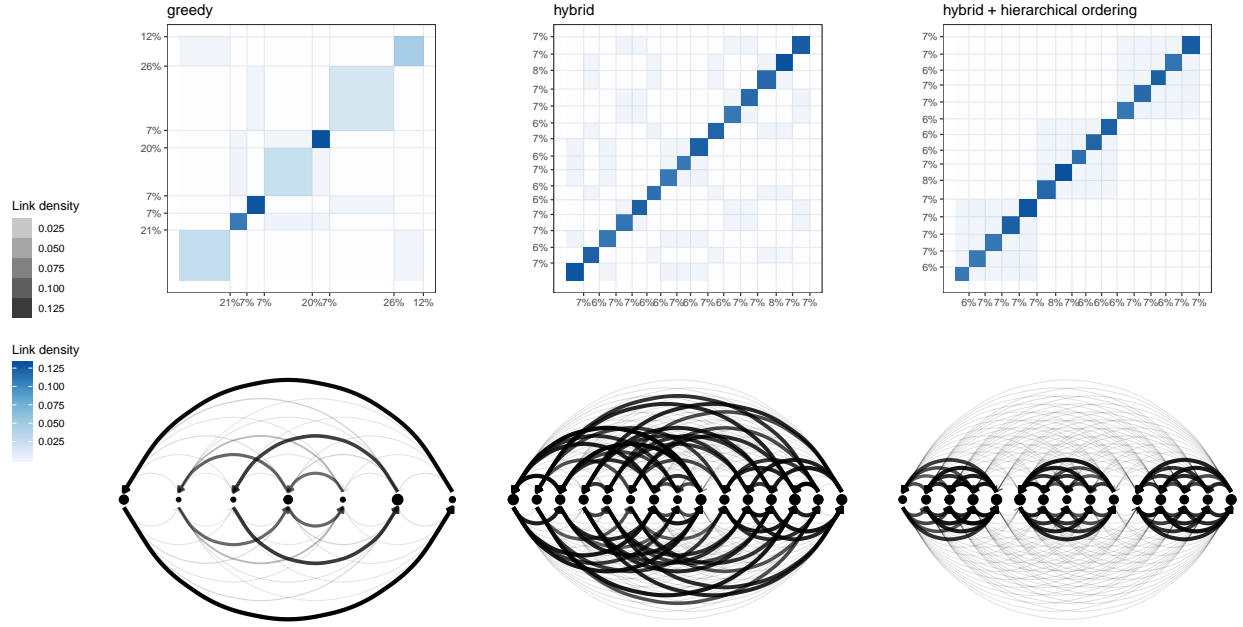
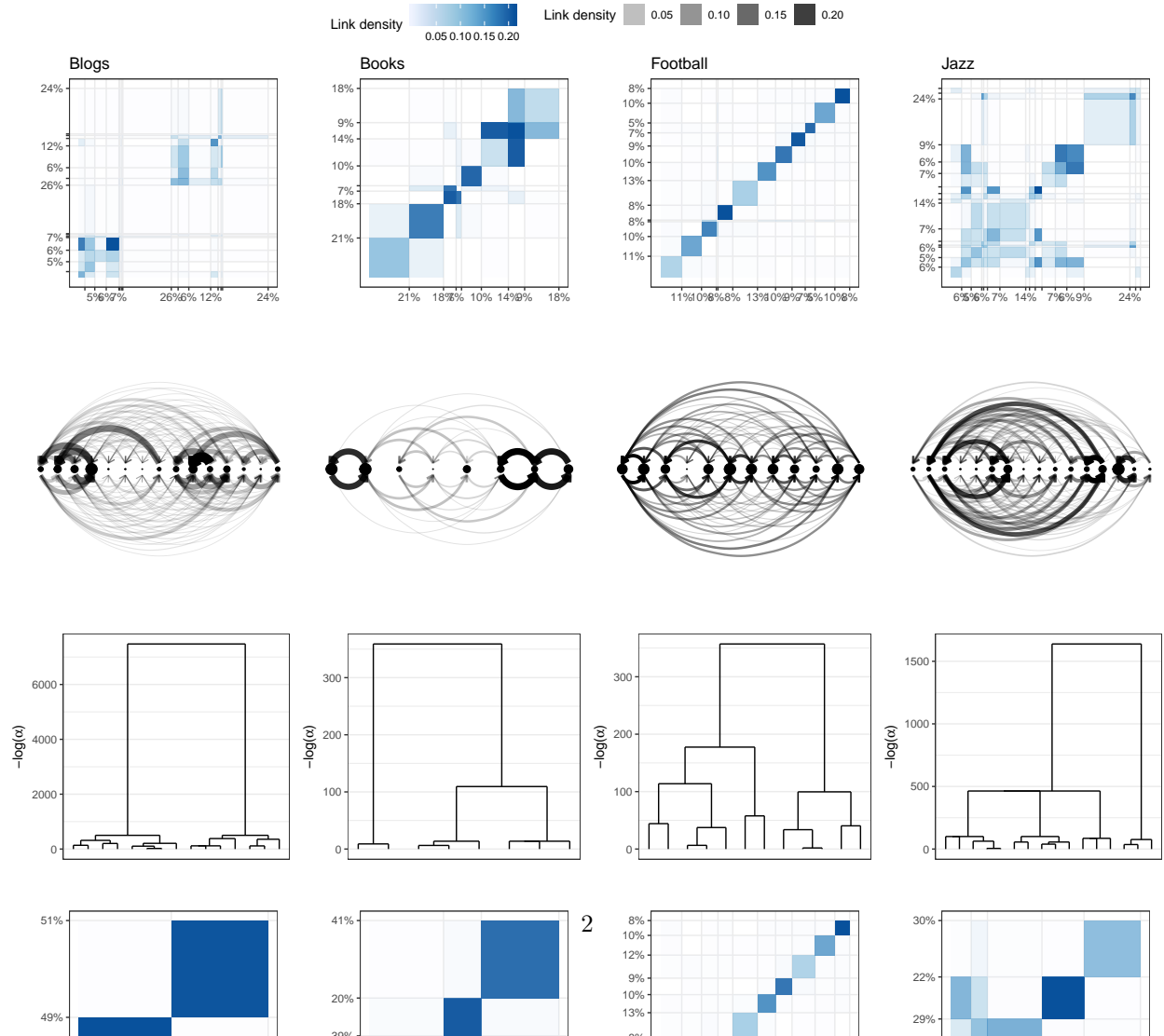
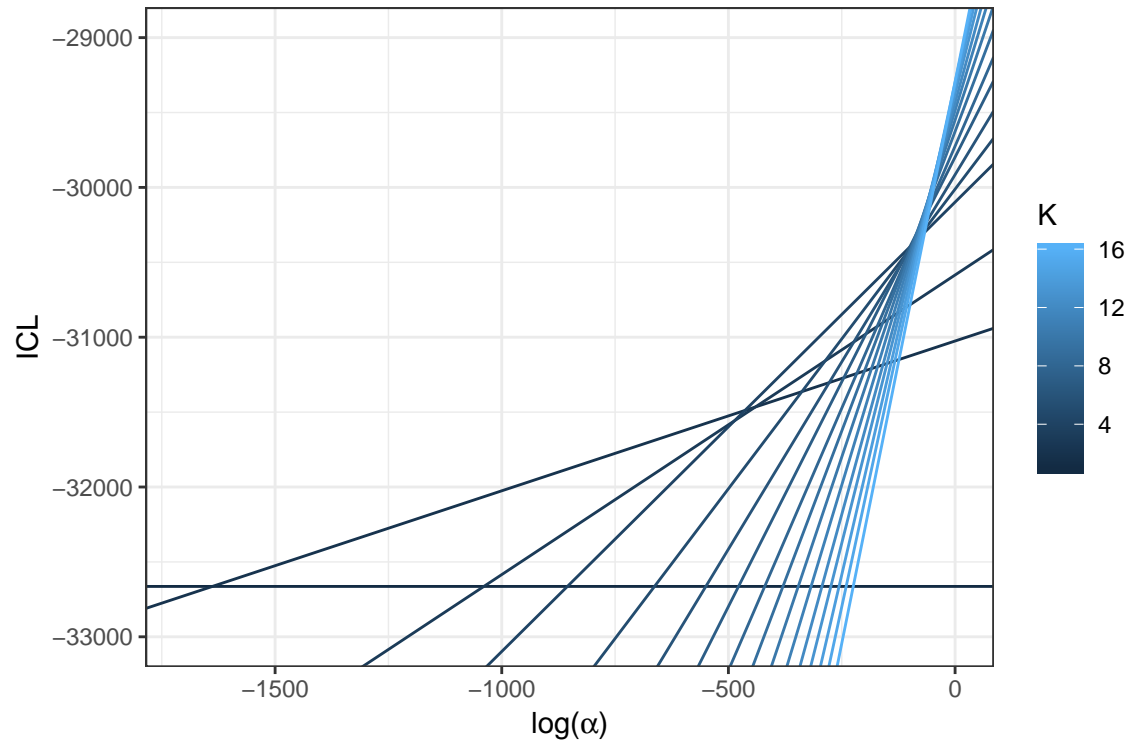


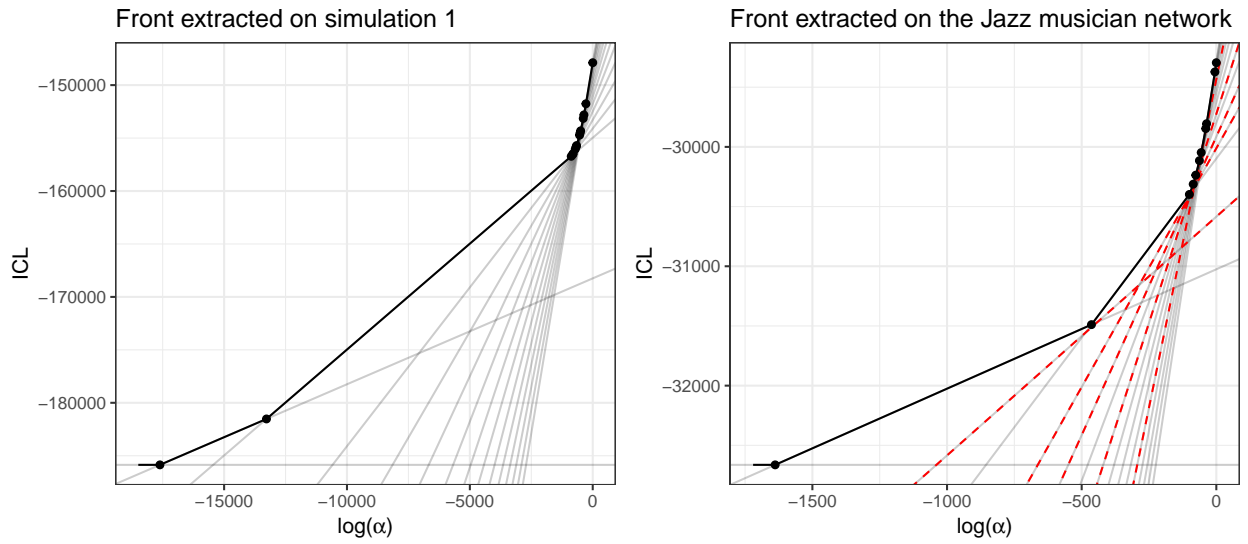
Figure 1: Motivating example of the proposed algorithm. Block matrix representation of the solutions (upper row) and cluster node link diagram (bottom row).

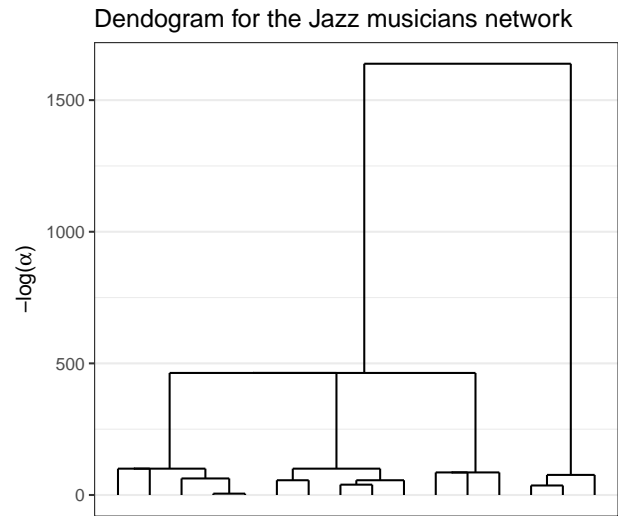
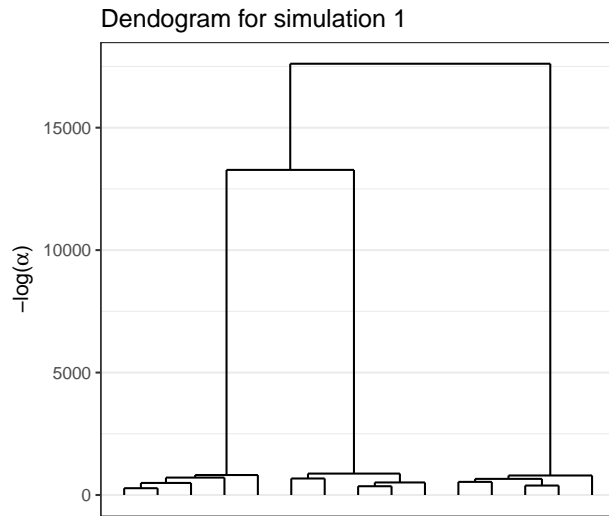


```
## Joining, by = c("icl", "K")
```



```
## Joining, by = c("icl", "K")
```





Link density 0.1 0.2 0.3 0.4

Link density 0.1 0.2 0.3 0.4

