Max-Linear Models

Jean-Yves Djamen

Fall 2019

Contents

Given a graph, Generate ML Coefficient Matrix

We will assume that the input is a graph $\mathcal{D} = (V, E)$ with n vertices. Our function `ml_gen` will output the ML coefficient matrix B as shown bellow.

```r
m<- 4
m_mat<-c(2,3,4,0,
         0,2,0,4,
         0,0,3,5,
         0,0,0,2)
ml_gen(m,m_mat)
```

```
##      [,1] [,2] [,3] [,4]
## [1,]    2    6    8   40
## [2,]    0    2    0    8
## [3,]    0    0    3   15
## [4,]    0    0    0    2
```

Given an ML Coefficient Matrix Generate Graph