

Mathematical Programming: Modelling and Applications

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January 2018

Second mathematical model

- Change your objective:

$$\min \sum_{(u,v) \in E} \left(\sum_{k \in K} (x_{uk} - x_{vk})^2 - d_{uv}^2 \right)^2$$

- **Remark:** dgpsystem constraint is no more necessary!

Third mathematical model

- Change again your objective:

$$\max \sum_{(u,v) \in E, k \in K} (x_{uk} - x_{vk})^2$$

- **Remark:** dgpsystem constraint is anew necessary, but write it getting rid of slack variables and change equality into a proper inequality.