

Title

Jackson Antonio do Prado Lima (jacksonpradolima at gmail dot com) Luís Felipe Bilecki (felipe436 at gmail dot com)

1. Introduction

The reasoning and background behind this theme

2. Lorem Text

Just some Lorem Ipsum for filler

3. Conclusions

Some closing thoughts

Introduction

Introduction 1/14

Why Beamer?

- 1. LaTeX is great!
- 2. Beamer is easy to use!

3. Why not?

Introduction 2/14

Why Custom Themes?

- The default Beamer themes are outdated and visually displeasing
- There aren't many Beamer themes readily available online
- Making custom Beamer themes is easy!

Introduction 3/14

Lorem Ipsum

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

Lorem lpsum 5/14

text text text text

text text text text

Lorem lpsum 6/14

text text text text¹

- text text text text

text text text text

¹Rainer E Burkard et al. "The Quadratic Assignment Problem". Em: Handbook of Combinatorial Optimization. Springer, 1998.

²Sartaj Sahni e Teofilo Gonzalez. "P-complete approximation problems". Em: Journal of the ACM (JACM) 23.3 (1976).

³Nathan W Brixius e Kurt M Anstreicher. "The Steinberg Wiring Problem". Em: SIAM (2001).

- 1. text text text text
- 3. text text text text
- 4. text text text text

Lorem Ipsum 8/14

text text text text

$$onumber eta_{ij}^k = egin{cases} rac{[au_{ij}]^{lpha}[\eta_{ij}]^{eta}}{\sum\limits_{l \in \mathsf{free}_k} [au_{il}]^{lpha}[\eta_{il}]^{eta}} & \mathsf{if} \ j \in \mathsf{free}_k \ 0 & \mathsf{otherwise} \end{cases}$$

- $ightharpoonup \alpha$ and β text text text text
- free_k text text text text k

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text text text text

text text text text

$$D = \begin{bmatrix} 0 & 5 & 2 & 4 \\ 5 & 0 & 1 & 3 \\ 2 & 1 & 0 & 1 \\ 4 & 3 & 1 & 0 \end{bmatrix} \Rightarrow P_d = \begin{bmatrix} 11 \\ 9 \\ 4 \\ 8 \end{bmatrix} \qquad F = \begin{bmatrix} 0 & 50 & 60 & 94 \\ 50 & 0 & 22 & 50 \\ 60 & 22 & 0 & 44 \\ 94 & 50 & 44 & 0 \end{bmatrix} \Rightarrow P_f = \begin{bmatrix} 204 \\ 122 \\ 126 \\ 188 \end{bmatrix}$$

Lorem 6

$$H = P_d * P_f' = \begin{bmatrix} 2244 & 1342 & 1386 & 2068 \\ 1836 & 1098 & 1134 & 1692 \\ 816 & 488 & 504 & 752 \\ 1632 & 976 & 1008 & 1504 \end{bmatrix}$$

$$\eta_{ij}=1/H_{ji}$$

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Hybrid Max-Min Ant System

Algorithm

```
m \leftarrow number of ants
global-best \leftarrow \infty
pheromone-matrix ← InitializePheromoneMatrix()
reneat
      iteration-best \leftarrow \infty
      for k \leftarrow 0 to m do
             ant ← ConstructSolution()
             ant ← LocalSearch(ant)
             if Cost(ant) < Cost(iteration-best) then
                   iteration-best ← ant
             end
      end
      if Cost(iteration-best) < Cost(global-best) then</pre>
             global-best ← iteration-best
             UpdateMaxMinValues()
      end
      best-ant ← SelectBest(global-best, iteration-best)
      UpdatePheromoneMatrix(best-ant)
until stopping criteria is not met
return global-best
```

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Conclusions

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Closing Thoughts

- Future Works:

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Title

Obrigado!

Jackson Antonio do Prado Lima (jacksonpradolima at gmail dot com) Luís Felipe Bilecki (felipe436 at gmail dot com)