





Title

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Introduction

Introduction

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Why Beamer?

- 1. LaTeX is great!
- 2. Beamer is easy to use!
- 3. Why not?

Introduction 2/1

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- The default Beamer themes are outdated and visually displeasing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 3/1

Lorem Ipsum

Lorem Ipsum 4/1

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Lorem Ipsum 6/1

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text text³

¹burkard:98

²sahni:76

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

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

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

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$$D = \begin{bmatrix} 0 & 5 & 2 & 4 \\ 5 & 0 & 1 & 3 \\ 2 & 1 & 0 & 1 \\ 4 & 3 & 1 & 0 \end{bmatrix} \Rightarrow P_d = \begin{bmatrix} 11 \\ 9 \\ 4 \\ 8 \end{bmatrix} \qquad F = \begin{bmatrix} 0 & 50 & 60 & 94 \\ 50 & 0 & 22 & 50 \\ 60 & 22 & 0 & 44 \\ 94 & 50 & 44 & 0 \end{bmatrix} \Rightarrow P_f = \begin{bmatrix} 204 \\ 122 \\ 128 \\ 188 \end{bmatrix}$$

Lorem 6

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

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

Lorem Ipsum

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
      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:

Conclusions 13/1







Title

Thank you!

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