# Ethics of Intelligent Vehicles Presentation and poster preparation

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### Outline

- Scientific presentation
- Scientific poster
- LaTeX
- Other tools

# Scientific presentation: a standard structure

# Title Presenter Name(s) Collaborator Name(s) Event Venue Date

- ▶ Title
- ► Presenter name(s)
- ► Collaborator name(s)
- Event
- Venue
- ▶ Date

#### Outline

- Motivation
- Applications
- Preliminaries
- Result 1
- Result N
- Result N
   Conclusions

- Motivation
- Applications
- Preliminaries
- Results
- Conclusions

# Scientific presentation: tips

- Organize your thoughts (i.e. sections)
- We have a strong opening (e.g. a question?)
- Opening terms early (i.e. preliminaries)
- Finish with a summary
- Oesign slides to introduce important information
- Time yourself (e.g. 5-15 min.)
- Create effective notes for yourself (e.g. large font)
- Practice, practice, practice

# Scientific presentation: tips

- 1 a large font: >= 24 point
  - ▶ avoid font or font
- 2 a clean typeface: Sans serif typefaces, e.g. Arial
- 3 bullet points, not complete sentences
- a common rule: 6 bullets per slide, 7 words per item up to a line
- ontrasting colors: dark-to-light/light-to-dark
- avoid red/green combinations
- avoid special effects

# Scientific poster: a general structure

- ► Title
- Presenter name(s)
- 2-3 sentence Summary
- Model and applications
- Results
- Conclusions
- ▶ Bottom line



Result 1

Result 3

Conclusions

· Task I

. Task 1

. Task 1

# Scientific poster: tips

- Size: A0/A1
- 2 Readability:  $from \approx 10$  feet away
- 3 Title: short & draws interest
- 4 Word count: 300-800 words
- Text: clear & to the point
- 6 Elements: bullets, numbering, & headlines
- Visuals: effective graphics, colors, & fonts
- Layout: consistent & clean

# Scientific poster: example 1

#### Tips for Designing Effective Presentations

A poster with the main title in 11/2" sans serif

Developed by D. Stong, C. Dwyer, W. Kelty, E. Immel, and K. Winck with materials diseased by Penn Status Education Technology Services.

Get the audience's attention and communicate your message quickly and succinctly.



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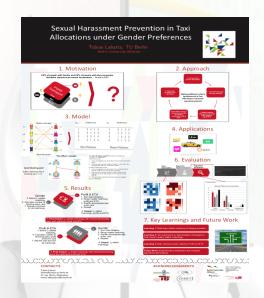
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Viewers reading this line demonstrate the poster's success!

### Scientific poster: example 2



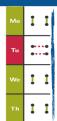
# Scientific poster: example 3

#### Selecting Matchings via Multiwinner Voting:

How Structure Defeats a Large Candidate Space

Niclas Boehmer, Markus Brill, Ulrike Schmidt-Kraepelin (TU Berlin)





#### Matching Elections

Proportional Representation Ideal: A group making up a p-fraction of the agents should not be "less happy" than if this group could decide on  $\lfloor p \cdot k \rfloor$  of the matchings.

Embedding into Approval-Based Multiwinner Elections:



Goal: Select k Matchings representing the agents proportionally.

Matching elections have an exponential candidate space.

#### Computational Results

Rules	Party-Approval Elections	Matching Elections	Bipartite/Symmetric ME	★ this pape
w-Thiele	NP-hard [1]	NP-hard (★)	P (★)	
seq-w-Thiele	P	P (★)	P	
seq-Phragmén	P [2]	P (★)	P	
Rule X	P [3]	P(★)	P	







#### **Axiomatic Results**

Rules	Party-Approval Elections	Symmetric Matching Elections
PAV	core stability [1]	core stability
seq-w-Thiele	not PJR [4]	EJR (★), not core stability (★
seq-Phragmén	PJR, not EJR [2]	PJR, not EJR (★)
Rule X	EJR, not core stability [3]	EJR, not core stability (★)

#### References

[1] M. Dill, F. Cillio, D. Phanson, D. Schmidts Dragestin, and Sr. Willers, "Approve thesand approximations," (AAAI 2023)
[2] M. Bill, R. F. Restrands, S. Jamons, and M. Licksone, "Procapative being metablic and judget expressed part of processing and processin

# LaTeX: https://www.latex-project.org/



- reports
- articles
- reviews
- presentations
- posters

- magazines
  - books
  - leaflets
- advertisements
- brochures

#### Other tools



#### MS Word

- reports
- articles
- review

#### MS Excel

- graphs
- tables
- charts

#### MS PowerPoint

- presentation
- poster
- video

#### **Activities**

- ▶ run LaTeX
- try also Word and PowerPoint
- make a simple graph in Excel
- prepare an initial presentation template
- prepare an initial poster template