



# THIS WEEK IN CS AND STEM

- Praying mantis to disaster relief robots
  - <https://futurism.com/researchers-3d-glasses-praying-mantises-discovered-new-type-vision/>
- Reversal of Alzheimer's?!
  - <https://futurism.com/scientists-reverse-alzheimers-in-mice/>
- Impartial Olympic judges
  - <https://futurism.com/ai-judges-score-gymnastics-2020-olympics/>
- “Unless they figure out how to open doors”
  - <https://futurism.com/boston-dynamics-spotmini-new-trick/>
- Be careful of abusing your resources
  - <https://futurism.com/russian-nuclear-scientists-busted-mining-bitcoin-work-supercomputers/>

# ASSIGNMENT 12

- CCC [2017](#) problem 4 (S4: Minimum Cost Flow). Output and input should be the same as asked in the problem. Include comments and docstrings where necessary.
- Include a secondary version of the working assignment that includes:
  - Generalized I/O: use argparse to get input and output file names and write the output information to the output file. Assume the input file has some straight-forward structure.
  - More detailed output: instead of numbers, add some short explanation.
  - Modularized functions kept in separate files and called into the main script
- Due Sunday Feb 25<sup>th</sup> by 11:59pm via email to [woodford@cita.utoronto.ca](mailto:woodford@cita.utoronto.ca)
- Assignment 11 due Feb 25<sup>th</sup> as well!

# SEARCHES WITH 2D ARRAYS:

- Open Lecutre32\_33\_searches.ipynb and complete the last section

# MID-YEAR TEST REVIEW

- Quick overview of solution and common mistakes

# REFERENCES

- <https://www.geeksforgeeks.org/linear-search-vs-binary-search/>