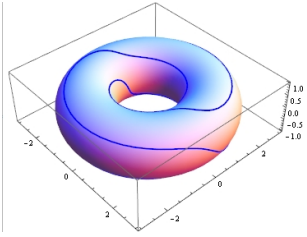
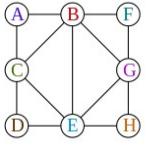
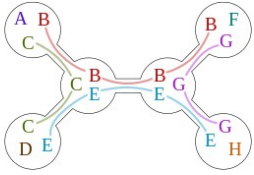
Zdeněk Dvořák

~ https://iuuk.mff.cuni.cz/rakdver/

- Graph Theory
  - implementation and evaluation of complex combinatorial algorithms, tests and hypothesis to open and questions,
  - pre-proposal and and related theoretical and undergraduate and and graduate degrees.
- Examples from past years
  - Algorithm for drawing graphs on torus, approximation algorithm for plane graphs based on reduction to graphs constrained by trees lines.







Michal Kouck y

~ https://iuuk.mff.cuni.cz/koucky/

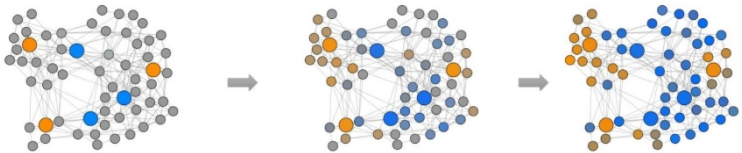
- Implementation of new ´algorithms ˜for editing ´ı education ´ality
- Secure ´ı passwords on the server
- N ´machine for calibration of time for Atmel systems ´

		E	L	E	P	H	A	N	T
	0	1	2	3	4	5	6	7	8
R	1	1	2	3	4	5	6	7	8
E	2	1	2	2	3	4	5	6	7
L	3	2	1	2	3	4	5	6	7
E	4	3	2	1	2	3	4	5	6
V	5	4	3	2	2	3	4	5	6
A	6	5	4	3	3	3	3	4	5
N	7	6	5	4	4	4	4	3	4
T	8	7	6	5	5	5	5	4	3

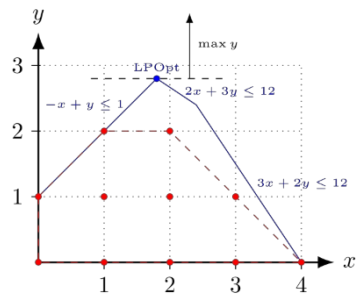
Martin Kouteck y

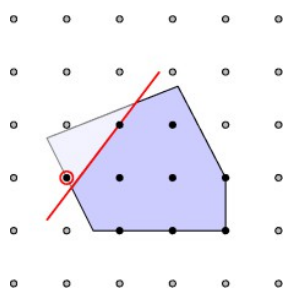
https://research.koutecky.name/

- Manipulation and ˇs´ıˇren´ı n´azorˇu in society



- Geometric´e techniques in combinatorial´e optimization
  - Whole´ıseln´e programs´an´ı, combinatorial´e algorithms, . . .

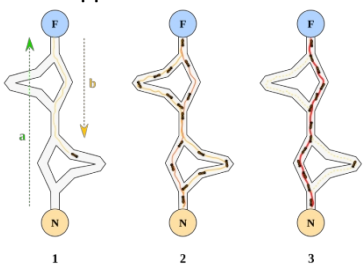


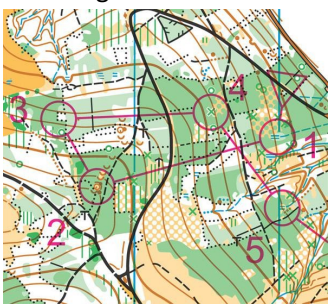


Ondrej Pangrác

- Optimization and heuristics
  - optimization graphe problems and games related to them, use heuristics for three problems.

- Mapování
  - applications related to orientation and maps and in general.

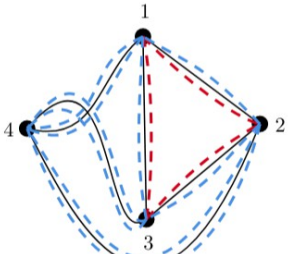




Robert Šámal ~ https://iuuk.mff.cuni.cz/samal/

Generating an in and suitable graphs on the desktop

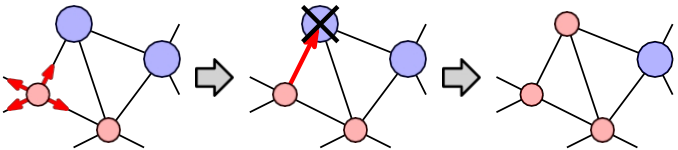
- In each vertex of the graph, select n and a suitable row of edges. This determines ı the graph to be drawn on some surface (a sphere with a value of eighth).
- The aim of the project is to develop a fasty program that implements this and determine as quickly as possible ı whether all the walls are maintained by the circuits.
- If it done, it will lead to the ı 50 years old e hypotezy Cycle Double Cover.



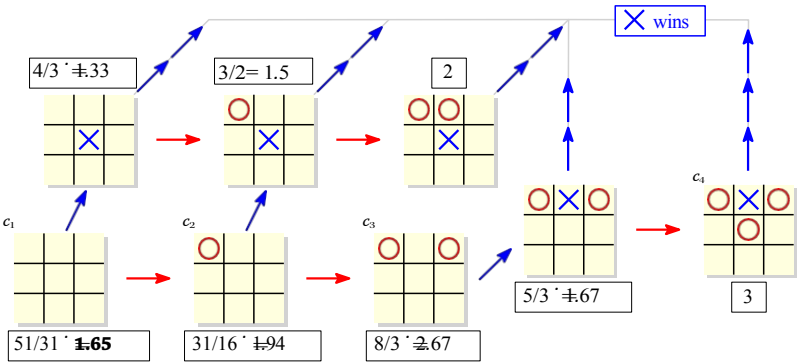
Pepa Tkadlec

https://sites.google.com/view/pepa-tkadlec/

- Algorithms in evolution´ı graph theory u˚



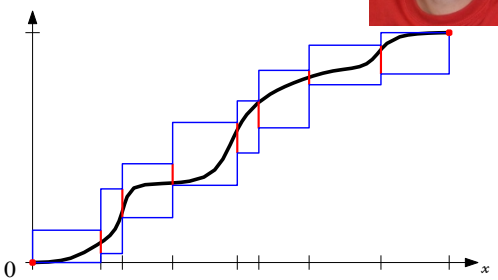
- Strategies for offering´ıdkov´e version of simple´mathematical´games



Pavel Veselý

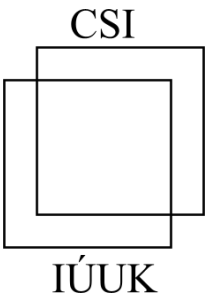
~ https://iuuk.mff.cuni.cz/vesely/

- Processing dání of large data with small memory
- call Streaming algorithms", for example for: "
  ed.
  - copper estimateánu, percentileů l and distribution
  - clustering of geometric data



- Online algorithms: how to make decisions when you don't know the future?
  - E.g. schedulesání packetůvstřsých přepínačích
  - Project: searchání lower estimateů
  - Spíše for theoretical bachelorářrku

- If you choose a project from the KAM Ú UK, please contact the project leader by at ´.
- Contacts can be found on ´ank´ach departments:
  - WHERE TO: https://kam.mff.cuni.cz/
  - Ú UK: https://iuuk.mff.cuni.cz/



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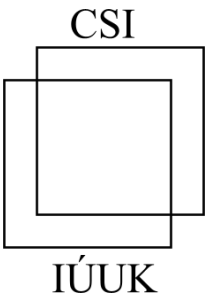

Thank you for your attention.