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

Zden ek Dvo r ak Graph theory

- implementation and evaluation of complex combinatorial depth setting of hypotheses for open queens
- theoretical bachelor's these assumed.
- Deposits from previous years
 - an algorithm for drawing graphs on the torus, an approximation algorithm for plane graphs based on reduction to graphs restricted to tree-nets.





Michal Kouck´y

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

- Implementation of new algorithms for editing distance
- Securing passwords on the server
- Calibration tool for Atmel systems



		Е	L	Е	Р	Н	А	Ν	Т
	0	1	2	3	4	5	6	7	8
R	1	1	2	3	4	5	6	7	8
Е	2	1	2	2	3	4	5	6	7
L	3	2	1	2	3	4	5	6	7
Е	4	3	2	1	2	3	4	5	6
V	5	4	3	2	2	3	4	5	6
А	6	5	4	3	3	3	3	4	5
Ν	7	6	5	4	4	4	4	3	4
Т	8	7	6	5	5	5	5	4	3

Martin Kouteck´y

https://research.koutecky.name/

• Manipulation and management of resources in society





- Geometric techniques in combinatorial optimization
 - integer poganning combinatorial algorithms,...





Ondrej Pangr'ac

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

- Optimization and heuristics
 - optimization graph problems and related games, use of heuristics for these problems.



• Mapovíaní

• applications related to orientation and mapping in get





Robert

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

S amaleration of random drawings of graphs on the surface

- In each vertex of the graph we select a different order of edges. This determines the graph to be drawn on some surface (a sphere with a rank of
- The aim of the project is to develop a fast program that implements this and **determines** asquickly as possible whether all the walls are preserved by the is



 If successful, this would lead to the verification of the 50-year-old Cycle Double Cover hypothesis.



Pepa Tkadlec

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

• Algorithms in evolutionary graph theory





Strategies for bidding versions of simple mathematical games



Pavel Vesel'y

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

- Processing of large data with small memory
- call Streaming algorithms", for example for: ______
 - **mecha**stimate, percentile 1 and distribution
 - clustering of geometric data



 Online algorithms: how to make decisions when you don't know the future?

0

- E.g. packet scheduling in networkdevices
- Project: search for lower estimates

• You are studying for a theoretical bachelor's degree

- If you choose a project from the KAM through IU´UK, please contact your supervisor by e-mail.
- Contacts can be found on the pages of the departments:
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 - IU'UK: https://iuuk.mff.cuni.cz/





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Thank you for your attention.