



Computational Geometry: Solving Hard Optimization Problems (CG:SHOP)

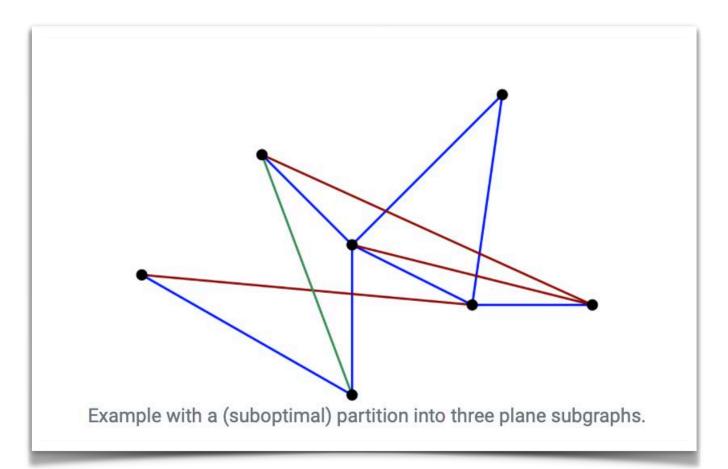
Optimization Challenge 2022

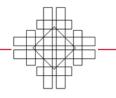
Sándor P. Fekete, Dominik Krupke, Phillip Keldenich, Stefan Schirra

Contest



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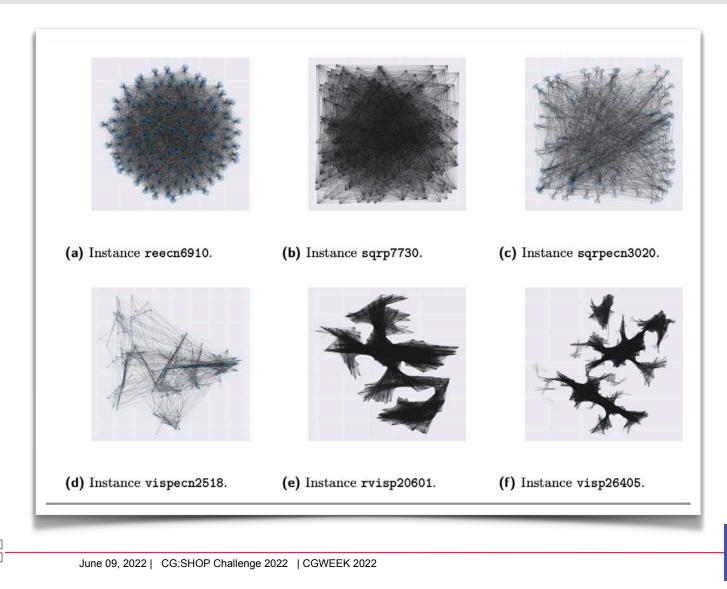


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Contest



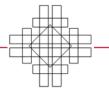
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Timeline



- May 20, 2021: Call for problems
- July 21, 2021: Announcement of problem
- August 19, 2021: Release of first test instances
- September 19, 2021: Contest instances, contest opens
- January 19, 2022: Contest closes
- March 15, 2022: Final versions of proceedings contributions due





Results



Rank	Team	Junior te:	am Score		
1	Shadoks.		225.0		
2	gitastrophe			~	
4	TU Wien	Rank	Team	Score	Junior
5	OMEGA-UHA	1	Shadoks	225.000	
6	Luiwammus	0		017 400	
7	Expressway65	2	gitastrophe	217.486	✓
8	The Turtles Wouter	3	LASAOFOOFUBESTINNRRALLDECA	211.803	
10	ALGA@TUe	4	TU Wien	195.967	✓
11	KI Tiefensuche	5		1 1 1 1 0 1	
12	TheEternalProblem	c J	OMEGA-UHA	144.481	
13 15	Die freien Denker	6	Luiwammus	131.275	✓
16	Lyman Zerga	7	Expressway65	127.765	
18	Uni Bonn	8	The Turtles	123.600	1
20	EA_HH	0	The furthes	123.000	✓
21	H2	9	Wouter	122.317	 ✓
25 26	2IMA15 Group 1 TU Wien (S.A.)	10	ALGA@TUe	119.213	
29	TUe Group 12	10	1.581907/2005333127	110.210	
31	sarkarsi	~	0.26199194703510964		_
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Results



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Shadoks Approach to Minimum Partition into Plane Subgraphs

Loïc Crombez ⊠ [©] LIMOS, Université Clermont Auvergne

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Conflict-Based Local Search for Minimum Partition into Plane Subgraphs

Jack Spalding-Jamieson 🖾 🗊 David R. Cheriton School of Computer Science, University of Waterloo, Waterloo, Canada

Brandon Zhang 🖂 🕲 No affiliation

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Local search with weighting schemes for the CG:SHOP 2022 competition

Florian Fontan ⊠ Independent Researcher, France

Pascal Lafourcade ⊠ ☆ ☺ Université Clermont-Auvergne, CNRS, Mines de Saint-Étienne, LIMOS, 630 France

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Benjamin Momège 🖂 Independent Researcher, France

SAT-Based Local Search for Plane Subgraph Partitions

André Schidler 🖂 🕼 TU Wien, Vienna, Austria

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Developments



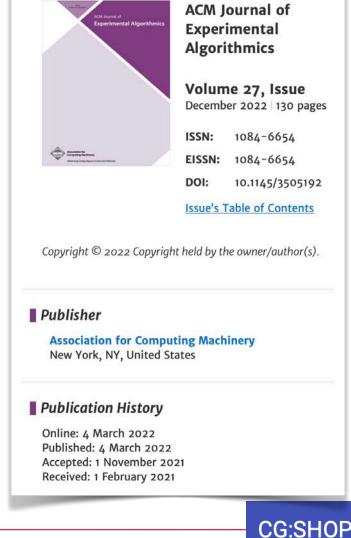
Advisory Board:

- Bill Cook
- Andreas Fabri
- Dan Halperin
- Michael Kerber
- Philipp Kindermann
- Joe Mitchell
- Kevin Verbeek
- Special issues 2019 and 2021 completed
- Call for 2023 problems imminent
- Funding until October 2023



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