

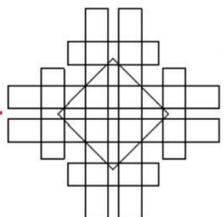
Business Meeting 2024

Athens, June 12, 2024

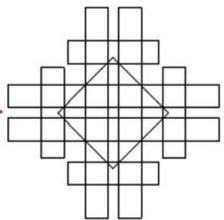
Agenda

- SafeTOC
- CGWeek 2024
- CGWeek 2025
- CGWeek 2026
- New Society
- Old Society
- Announcements

- Local Organization
- SoCG
- CG:YRF
- Media
- CG:SHOP
- Workshops
- ToT



SafeTOC



SafeTOC at CG Week 2024

Anne Driemel
University of Bonn

June 12, 2024

CG Week Code of Conduct

CG Week is dedicated to providing an environment that is free from harassment, bullying, discrimination, and retaliation for all participants, regardless of gender, gender identity and expression, age, sexual orientation, disability, physical appearance, body size, race, ethnicity, religion (or lack thereof), or technology choices.

Bullying, intimidation, personal attacks, harassment, sustained disruption of talks or other events, and behavior that interferes with another's full participation will not be tolerated. Sexual language and imagery is not appropriate for any conference venue.

CG Week participants violating these rules may be sanctioned or expelled from the conference without a refund at the discretion of the conference organisers.

Advocates

Advocates can offer advice and support to community members who experience or witness harassment.

As much as our other responsibilities allow, all communication with advocates is strictly confidential.

We cannot handle official complaints, perform investigations, or issue disciplinary action, but we can provide information about available processes for such actions.

SafeTOC is a volunteer initiative. Our website (safetoc.org) has both recommendations and a longer list of active advocates.

Advocates at CG Week 2024

- ▶ Benjamin Burton (bab@maths.uq.edu.au)
- ▶ Erin Wolf Chambers (erin.chambers@slu.edu)
- ▶ Anne Driemel (driemel@cs.uni-bonn.edu)
- ▶ Emily Kyle Fox (emily.fox@utdallas.edu)
- ▶ Patrick Schnider (patrick.schnider@inf.ethz.ch)

How *you* can help

If you witness harassing behavior, such as sexist or racist jokes, even if there is no obvious victim present, it often helps to speak up. Offenders need to hear from their peers that this is not okay.

If you witness someone being harassed, one helpful action is to simply ensure that the target is safe. For example:

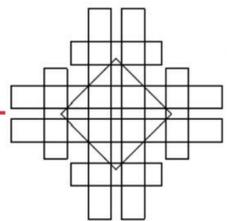
- ▷ Join the conversation between the offender and their target.
- ▷ Cause a distraction; for example, ask the offender a question.
- ▷ Separate the people; for example, find a reason to call the target away.

If there is an opportunity, you can also ask the target if they are OK and just listen. If they wish, you can take them to an organizer or SafeToC advocate who you trust for support.

More Information

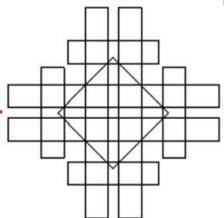
- ▶ **CG Week Code of Conduct:**
 - ▷ <https://www.computational-geometry.org/codeofconduct.html>
- ▶ **SafeToC web site:**
 - ▷ <http://safetoc.org>
- ▶ **Helpful resources from ACM SIGARCH CARES:**
 - ▷ <https://www.sigarch.org/benefit/cares/cares-resources/>

CGWeek 2024

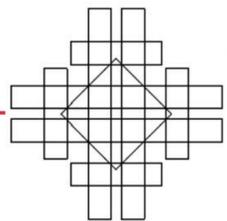


CGWeek 2024

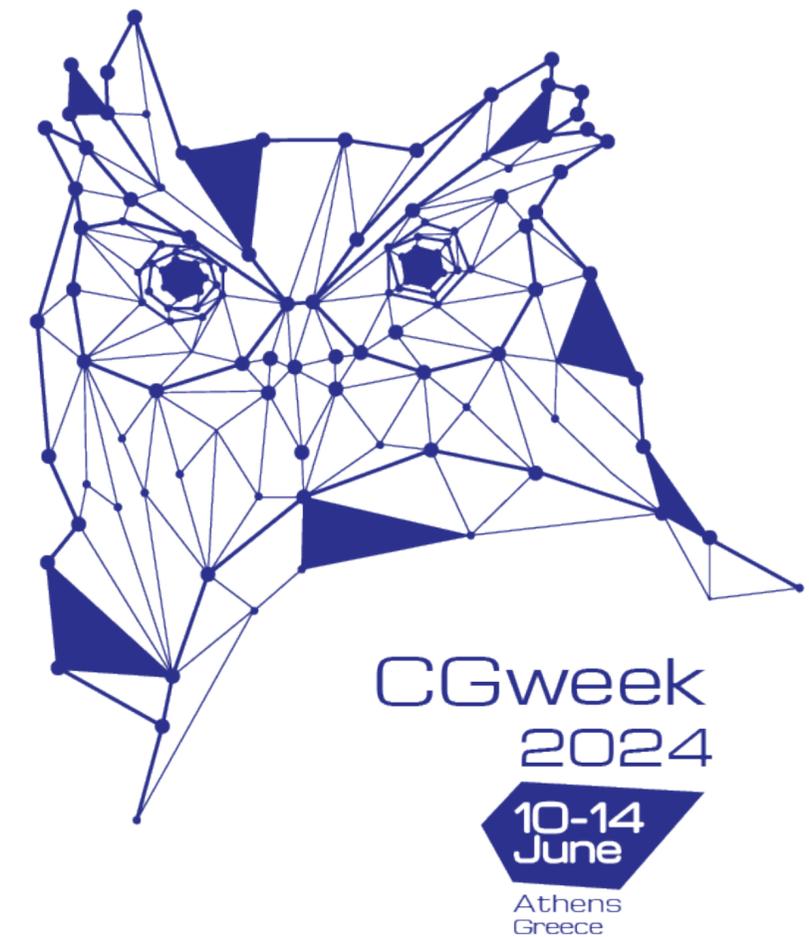
- **Organization:** Ioannis Emiris, Georgios Alexis Ioannakis, Evanthia Papadopoulou, Ioannis Psarros, Eleni Sotiropoulou, Konstantinos Tsakalidis
- **SoCG:** Wolfgang Mulzer, Jeff Phillips
- **CG:YRF** Valentin Polishchuk
- **Media:** Raghavendra Sridharamurthy, Bei Wang
- **Workshops:** The Steering Committee (Yusu Wang)
- **Challenge:** Sándor Fekete
- **ToT:** Pankaj Agarwal, Siu-Wing Cheng
- **Proceedings:** Philipp Kindermann



Local Organization







Local organizers' report / Business meeting 12.06.24

Ioannis Emiris, Georgios Ioannakis, Evanthia Papadopoulou, Ioannis Psarros, Eleni Sotiropoulou, Konstantinos Tsakalidis

In Person Attendance



United States of America 52

Greece 30

Germany 25

France 20

Netherlands 15

Israel 14

Austria 10

China / Hong Kong 8

Republic of Korea 8

Switzerland 7

United Kingdom 7

Australia 4

Denmark 4

India 3

Belgium 2

Canada 2

Czech Republic 2

Finland 2

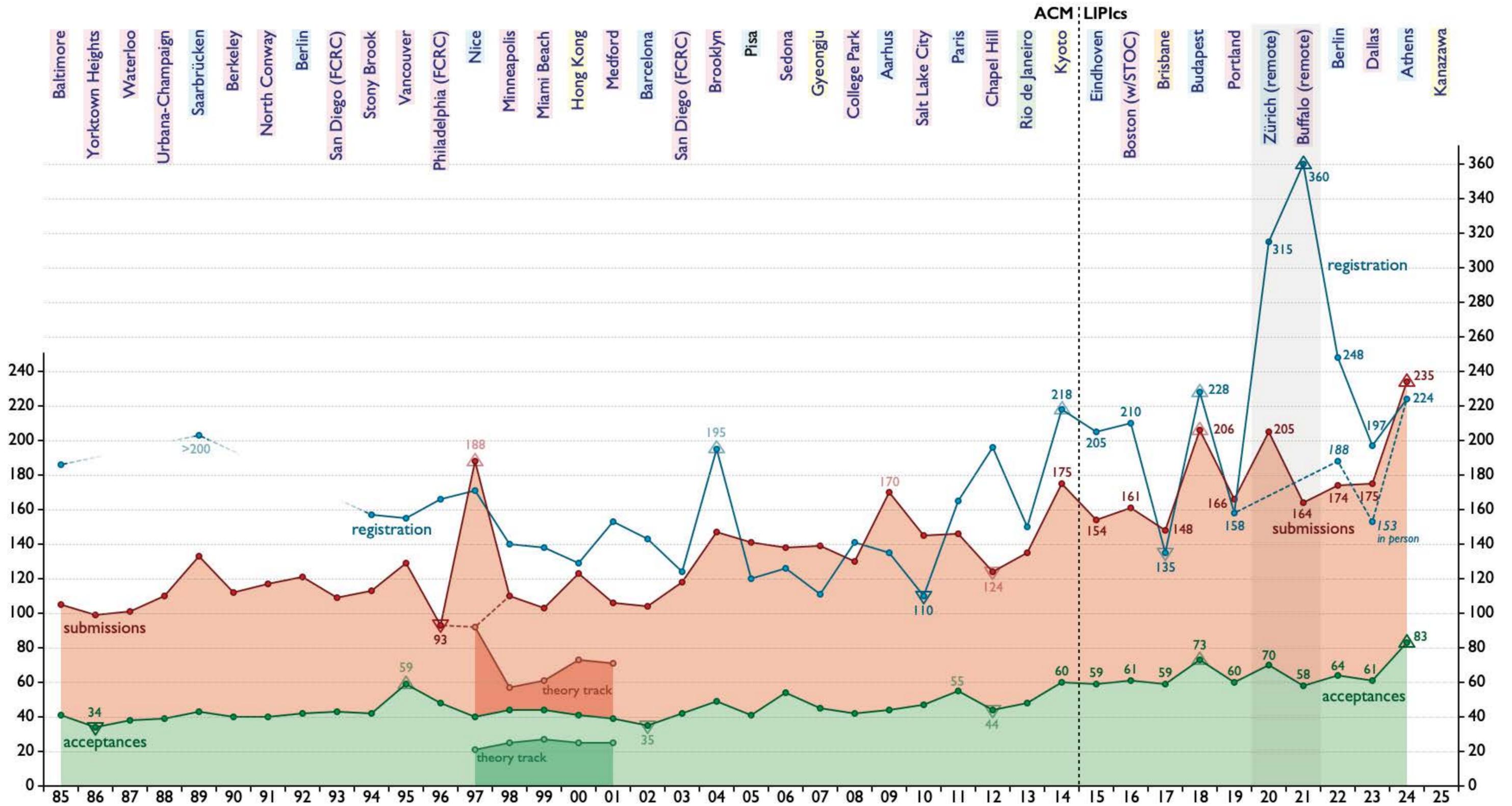
Hungary 2

Japan 2

Italy 1

Poland 1

Slovenia 1



credits: Jeff Erickson

Budget / Expenses



Costs	Food and Beverages	23.680,00 €
	HotCRP	1.650,00 €
	Invited Speakers	4.550,00 €
	Social Events/Dinners	11.975,00 €
	Childcare	2.970,00 €
	Promo Material	2.195,00 €
	Printings	1.550,00 €
	Organization Services	11.600,00 €
	AV equipments, Photos, recap videos	1.200,00 €
	Graphics	500,00 €
	Prizes	1.000,00 €
	Proceedings	5.100,00 €
	Transportation	1.500,00 €
	TOTAL EXPENSES	69.470,00 €

Budget / Income



Funds	Sponsorship	14.500,00 €
	Registration	56.880,00 €
	TOTAL INCOME	71.380,00 €
To the CG Fund	1.910,00 €	

Sponsorship



Organizer



Platinum Sponsor



DEPARTMENT OF
INFORMATICS &
TELECOMMUNICATIONS



HELLENIC REPUBLIC
**National and Kapodistrian
University of Athens**
EST. 1837

Silver Sponsors*



Supporters



*Sponsors are listed alphabetically.

General aspects

Conference is getting bigger, days longer

Remote participation: how much ?

Discord channel

Childcare

Finances: role of CG Fund

Sharing responsibilities between SC, LC, PC

Visa issues

Thanks



Our generous sponsors

Athena RC staff (Ioannis Altanopoulos)

Student Volunteers (undergrad/grad students of NKUA, NTUA)

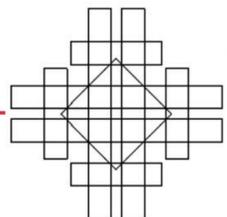
Evgenides Foundation staff

All CG Week chairs

SoCG Program Committee

CG Steering Committee

SoCG 2024



SoCG 2024 PC

- Peyman Afshani, Aarhus University
- Hee-Kap Ahn, POSTEC
- Boris Aronov, New York University, USA
- Sayan Bandyapadhyay, Portland State University, USA
- Gill Barequet, Technion - Israel Inst. of Technology, Israel
- Karl Bringmann, Universität des Saarlandes, Germany
- Maïke Buchin, Ruhr-Universität Bochum, Germany
- Tamal Dey, Purdue University, USA
- Omrit Filtser, Open University of Israel, Israel
- Sarel Har-Peled, University of Illinois, Urbana-Champaign, USA
- Meng He, Dalhousie University, Canada
- Michael Hoffmann, ETH Zürich, Switzerland
- Chaya Keller, Ariel University, Israel
- Clement Maria, INRIA, France
- David Mount, University of Maryland, USA
- Wolfgang Mulzer, Freie Universität Berlin, Germany (co-chair)
- Steve Oudot, INRIA, France
- Dömötör Pálvölgyi, Eötvös Loránd University, Hungary
- Evanthia Papadopoulou, Università della Svizzera italiana, Switzerland
- Salman Parsa, DePaul University, USA
- Zuzana Patáková, Univerzita Karlova, Czech Republic
- Jeff M. Phillips, University of Utah, USA (co-chair)
- Benjamin Raichel, University of Texas at Dallas, USA
- Lena Schlipf, University of Tübingen, Germany
- Melanie Schmidt, Heinrich Heine University Düsseldorf, Germany
- Micha Sharir, Tel Aviv University, Israel
- Rodrigo Silveira, Universitat Politècnica de Catalunya, Spain
- Andrew Suk, University of California, San Diego, USA
- Subhash Suri, University of California, Santa Barbara, USA
- Martin Tancer, Univerzita Karlova, Czech Republic
- Yufei Tao, The Chinese University of Hong Kong, China
- Csaba D. Tóth, California State University Northridge, USA
- Birgit Vogtenhuber, Technische Universität Graz, Austria

Paper statistics

235 submitted papers (a record!)

83 papers accepted (1 merge)

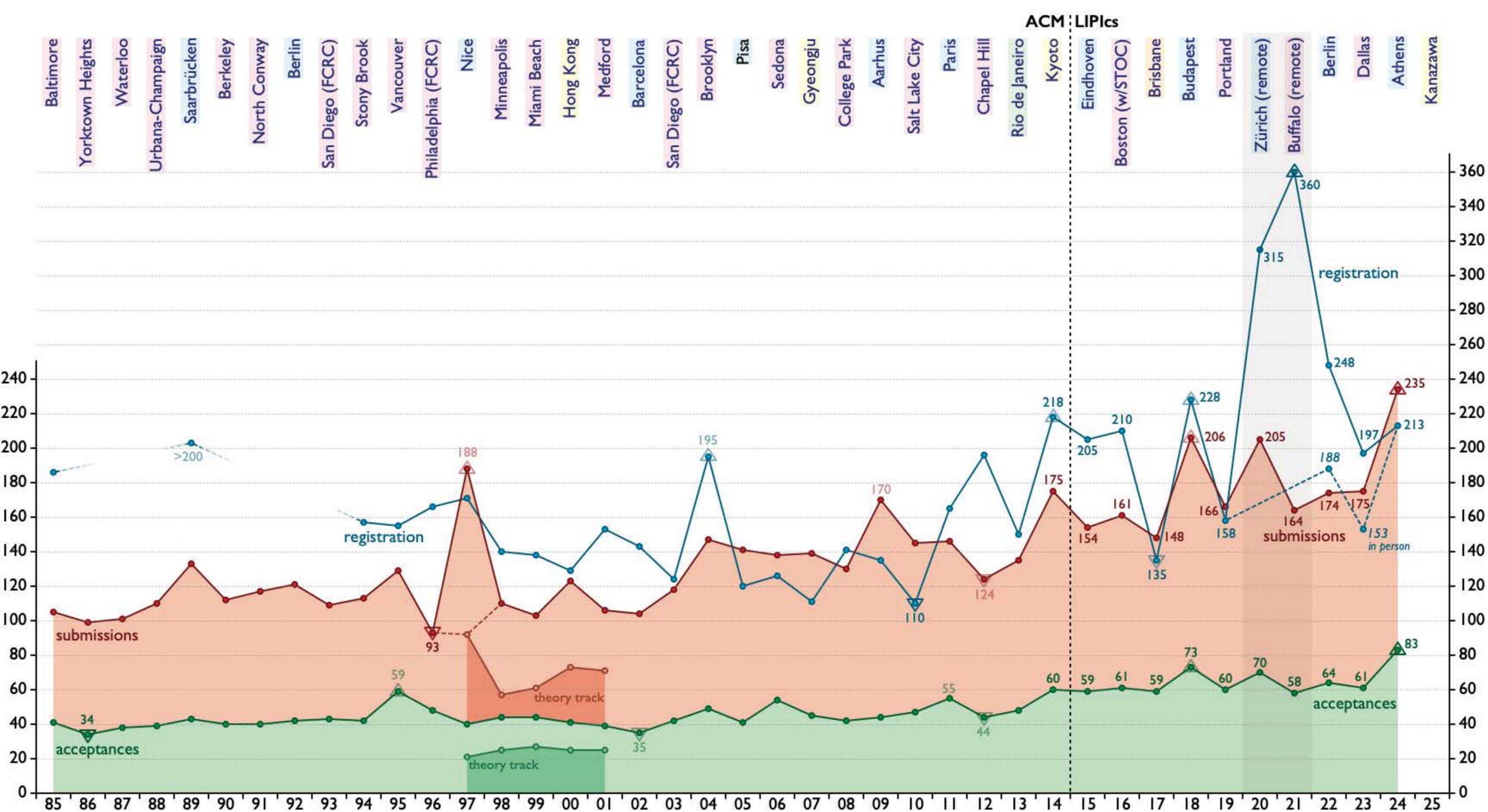
- 35.3% acceptance rate
- previous years: 34.8% in 2023, 37% in 2022, 35% in 2021

best paper awardee invited to JACM

one paper invited to TheoretCS

26 papers invited to special issues in DCG and JoCG

- 23 accepted



More statistics

Topic	Submitted	Accepted	Rate
Algorithmic complexity	131	49	37.4%
Applications	21	3	14.2%
Mathematical foundations	129	44	34.1%
Experiments and implementation	27	7	25.9%

“Applications” and “Experiments and implementation” seem like outliers

A number of these papers were not formally written and not ready for SoCG.

Other papers that we would consider “applied” were not marked as such.

The topic remains difficult. We believe we had very good expertise on the PC to evaluate these two categories, and we made sure to give them extra consideration. However, the categories remain ambiguous.

Geometry and topology

We asked the authors to self-identify their paper as “Computational Geometry” or “Computational Topology” (or both or neither).

Type	Submitted	Accepted	Rate
Geometry	155	55	35.5%
Topology	50	15	30.0%
Both	22	10	45.5%
Neither	8	3	37.5%

Useless statistics

#Authors	Submitted	Accepted	Rate
1	24	6	25.0%
2	66	22	33.3%
3	62	24	38.7%
4	47	19	40.4%
5	24	9	37.5%
6	9	2	22.2%
7	2	1	50.0%
8	1	0	00.0%

Double blind and PC submissions

Essentially followed the approach from SoCG 2023

Used HotCRP for handling COIs

PC members were blinded

PC chairs were unblinded to handle conflicts, but default was blind

PC members could submit, PC papers were not handled differently from other submissions

A few submissions were not blinded – needed to be fixed in screening phase (CFP/style file should be more clear next year)

#PC submissions: 34; #PC accepted: 15; PC acceptance rate: 44.1%

Review process

Each paper was assigned to three PC members, but all PC members could comment on all papers (if no Col)

Cols handled through HotCRP and PC chairs

- Total number of subreviewers: about 381
- Total number of paper comments: 1064, which is 4.5 per paper on average

Tried to get as much information as possible early on

Tried to be proactive in contacting authors about possible issues (*as soft rebuttal*: only if it appeared possible to change accept/reject decision)

PC discussion summaries if needed

Implemented a light shepherding process for a few papers

Thanks for a very active and diligent PC process!

Reflection

Novelties:

- best student paper
- TheoretiCS invitation

In hindsight: would have been good to have more topologists on the PC

Implemented a soft rebuttal phase – make it more formal?

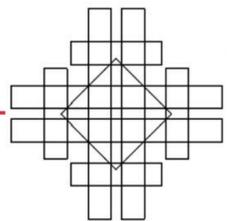
More fine-grained topic labelling will make bidding easier

Double-blind reviewing leads to larger PCs – need for more frequent PC participation?

Thanks!

- the authors for submitting their great papers
- the PC members for their dedicated work throughout the process
- the external reviewers for sharing their insights
- the local organizers for their hard work
- the SC for their support
- the previous PC chairs for their advice
- the invited speakers Leo Guibas and Edith Cohen
- the proceedings chair Philipp Kindermann
- all who contributed to CGWeek!

CG:YRF 2024



Program Committee

- [Omrit Filtser](#), Open University of Israel
- [Mayank Goswami](#), CUNY Queens College, USA
- [Irina Kostitsyna](#), KBR at NASA Ames Research Center, USA
- [Erik Krohn](#), University of Wisconsin, USA
- [Yakov Nekrich](#), Michigan Technological University, USA
- [Valentin Polishchuk](#) (chair), Linköping University, Sweden
- [Frank Staals](#), Utrecht University, the Netherlands
- [Csaba D. Tóth](#), California State University Northridge, USA
- [Mikael Vejdemo-Johansson](#), CUNY College of Staten Island, USA
- [Kevin Verbeek](#), TU Eindhoven, the Netherlands

Stats & Thoughts

20 submitted, 1 withdrawn, 15 accepted (some after conditional accept)

Lead authors: 8 🇺🇸, 5 🇪🇺, 2 🇮🇱

Acceptance rates 2020-now:

91% 78% 96% 90% **75%**

Some ML submissions:

thank you WoGaML for coordination

Work in progress \in YRF

but **full versions** were very helpful

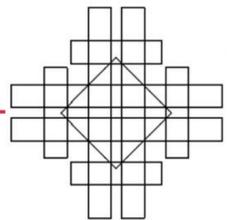
≤ 20 papers \Rightarrow free EasyChair \Rightarrow

some EasyChair perks missing

no big deal (the essential are there)



Media 2024



SoCG:ME 2024



Chairs: Raghavendra Sridharamurthy



Bei Wang Phillips

SoCG:ME 2024

Submissions: 6

5 Accepted, 1 Conditionally Accepted

Final Acceptance: 6

IPC:

Kevin Buchin (TU Dortmund, Germany)

Siu-Wing Cheng (HKUST - Kowloon, Hong Kong)

Barbara Giunti (University of Albany, USA)

Michał Lipiński (Polish Academy of Sciences, Poland)

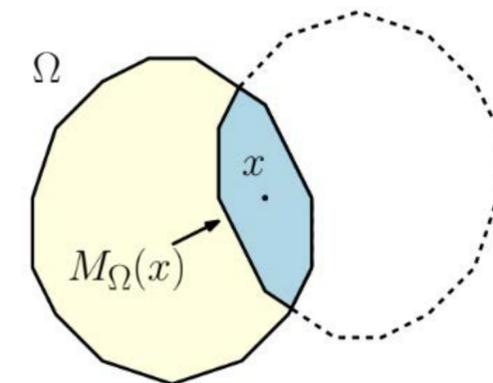
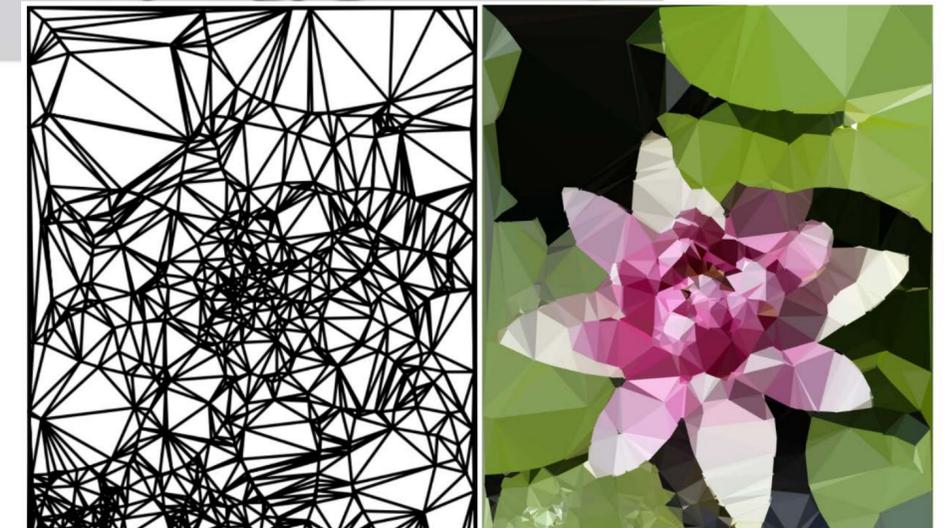
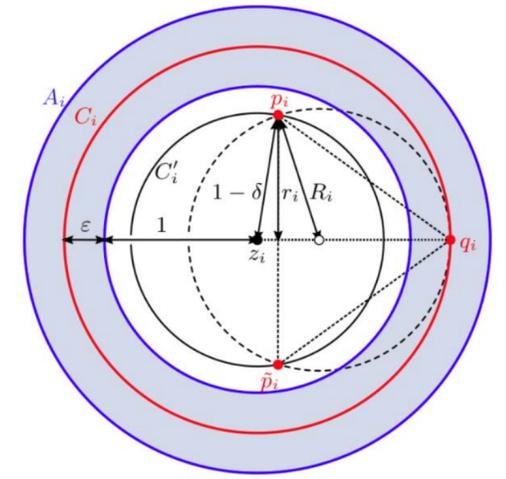
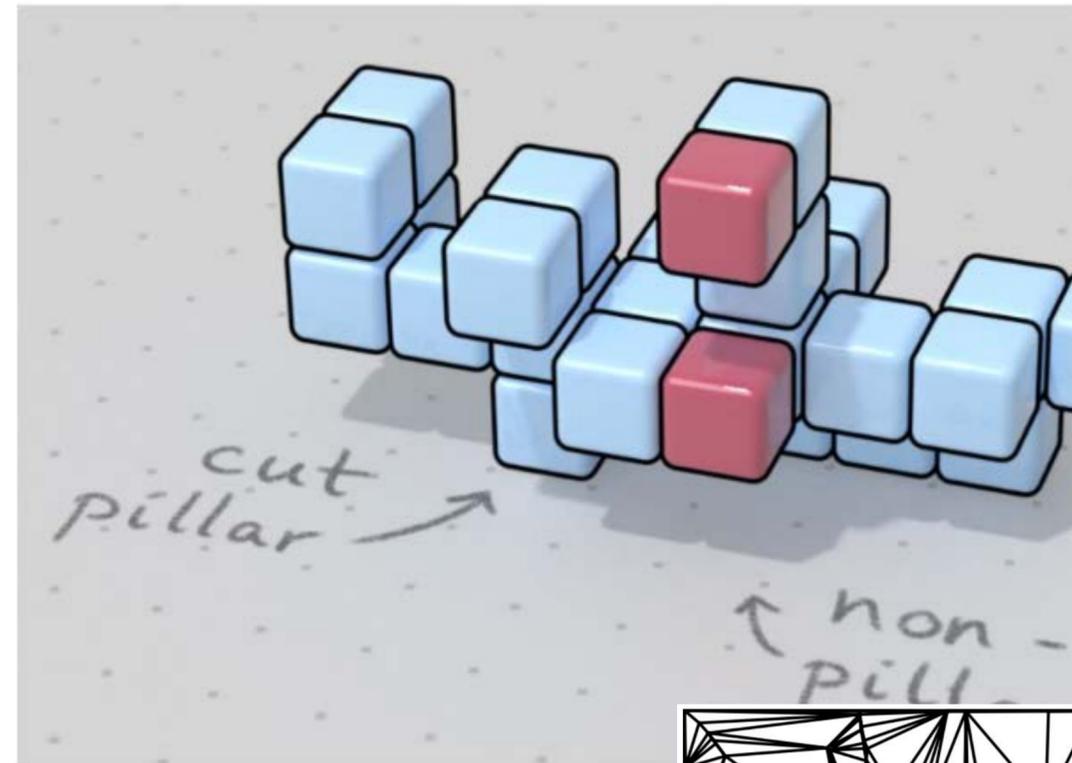
Talha bin Masood (Linköping University, Sweden)

Alexander McCleary (Ohio State University, USA)

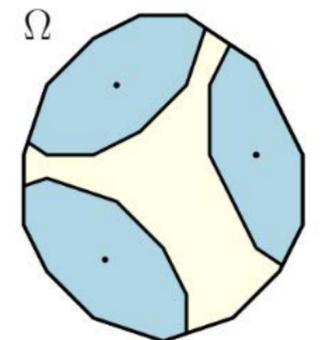
Abhishek Rathod (Ben Gurion University, Israel)

Anastasios Stefanou (University of Bremen, Germany)

Carola Wenk (Tulane University, USA)



(a)

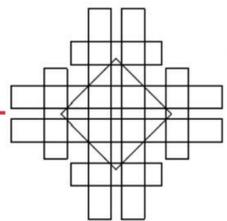


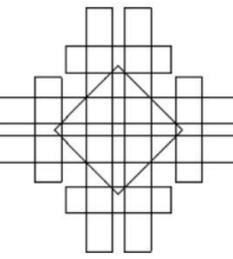
(b)

SoCG:ME 2024 Program Wednesday, June 12, 4:00 p.m.

16:00-17:00	CG:MEDIA (Auditorium)
16:00-16:10	<u>Kacey Thien-Huu La</u> , Jose E. Arbelo, and Christopher J. Tralie Visualizing Lucas's Hamiltonian Paths Through the Associahedron's Skeleton
16:10-16:20	<u>Nithin Parepally</u> , Ainesh Chatterjee, Auguste H. Gezalyan, Hongyang Du, Sukrit Mangla, Kenny Wu, Sarah Hwang, and David M. Mount Ipelets for the Convex Polygonal Geometry
16:20-16:30	Dominique Attali, Hana Dal Poz Kouřimská, <u>Christopher Fillmore</u> , Ishika Ghosh, André Lieutier, Elizabeth Stephenson, and <u>Mathijs Wintraecken</u> The ultimate frontier: An Optimality Construction for Homotopy Inference
16:30-16:40	Marjolein Haagsman, Maarten Löffler, and <u>Carola Wenk</u> Computational Geometry Concept Videos: A Dual-Use Project in Education and Outreach
16:40-16:50	Irina Kostitsyna, <u>Tim Ophelders</u> , Irene Parada, Tom Peters, Willem Sonke, and Bettina Speckmann Optimal In-Place Compaction of Sliding Cubes
16:50-17:00	<u>Olivia Laske</u> , <u>Lori Ziegelmeier</u> Image Triangulation Using the Sobel Operator for Vertex Selection

Challenge 2024





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

CG Challenge 2024

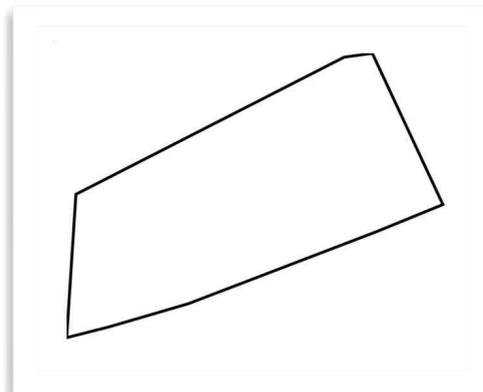
**Sándor P. Fekete, Dominik Krupke,
Phillip Keldenich, Stefan Schirra**

Supported by:

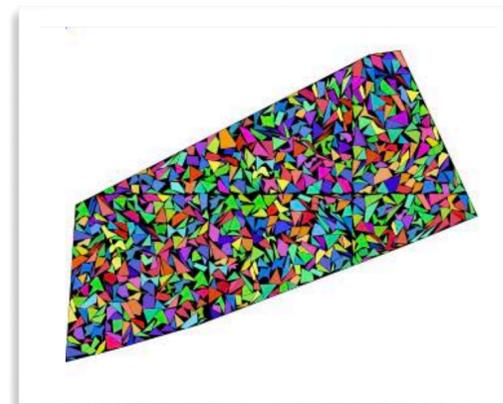
DFG

Maximum Polygon Packing

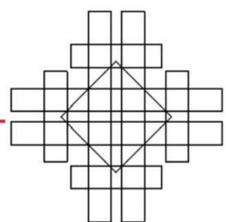
Given:



Wanted:



Proposed by Mikkel Abrahamsen, Copenhagen



Contest Setup

CG:SHOP
Help
☰

CG:SHOP 2024

Organized by: Sándor Fekete (TU Braunschweig), Phillip Keldenich (TU Braunschweig), Dominik Krupke (TU Braunschweig)

14 teams participating

Sept. 29, 2023, midnight (UTC) - Jan. 22, 2024, 11:59 p.m. (AoE)

[Download](#)

[Submit Solution](#)

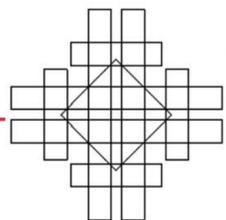
Shoutout to:

Phillip Keldenich, Dominik Krupke!

Team Shadows has launched a webpage that dynamically visualizes the solutions for this competition! Visit it [here](#). 3:45 p.m.

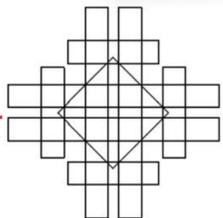
The final rankings are now available for viewing. We will soon contact the top teams to discuss the next steps. Thank you to all participants for your outstanding contributions. 01/24/2024 10:12 a.m.

[read more ...](#)



Results

Rank	Team	Score	# best	# only ≥ 0.95	# only ≥ 0.9
1	Shadoks	173.91	71	32	12
2	SmartPlacer	167.67	58	28	2
3	CGA Lab Salzburg	156.62	9	3	0
4	TU Dortmund	154.91	37	19	8
5	AMW	146.64	1	0	0
6	GreedyPackers	128.63	0	0	0
7	polygonizers	89.06	0	0	0
8	QTeam	72.59	0	0	0
9	CodingAtChristmas	3.39	0	0	0



Results

Shadoks Approach to Knapsack Polygonal Packing

Guilherme D. da Fonseca ✉ 

LIS, Aix-Marseille Université, France

Yan Gerard ✉ 

LIMOS, University Clermont Auvergne, Aubière, France

Priority-Driven Nesting of Irregular Polygonal Shapes Within a Convex Polygonal Container Based on a Hierarchical Integer Grid

Martin Held ✉  

FB Informatik, Universität Salzburg, Austria

Computing Maximum Polygonal Packings in Convex Polygons Using Best-Fit, Genetic Algorithms and ILPs

Alkan Atak ✉

TU Dortmund, Germany

Mart Hagedoorn ✉ 

TU Dortmund, Germany

Karsten Hogleve ✉

TU Dortmund, Germany

Patrick Pawelczyk ✉

TU Dortmund, Germany

Kevin Buchin ✉ 

TU Dortmund, Germany

Jona Heinrichs ✉

TU Dortmund, Germany

Guangping Li ✉ 

TU Dortmund, Germany

A General Heuristic Approach for Maximum Polygon Packing

Canhui Luo ✉ 

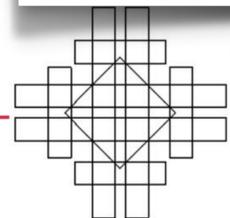
Huazhong University of Science and Technology, Wuhan, China

Zhouxing Su¹ ✉ 

Huazhong University of Science and Technology, Wuhan, China

Zhipeng Lü ✉ 

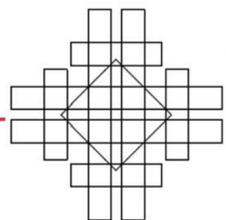
Huazhong University of Science and Technology, Wuhan, China



Overall Situation

- Advisory Board:
 - Bill Cook
 - Andreas Fabri
 - Dan Halperin
 - Michael Kerber
 - Philipp Kindermann
 - Joe Mitchell
 - Kevin Verbeek
- Special issues 2019, 2021, 2022, 2023, 2024
- Problem for 2025!
- Funding in renewal - stay tuned!

Supported by:
DFG Deutsche
 Forschungsgemeinschaft
 German Research Foundation



June 12, 2024 | CG:SHOP Challenge 2024 | CGWEEK 2024



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Algorithmics**

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[Issue's Table of Contents](#)

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**Computing in Geometry
and Topology**

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About the Journal

Statement of purpose

Computing in Geometry and Topology aims to support the broader computational geometry and topology community by being a peer-reviewed scientific journal that provides diamond open access. Computing in Geometry and Topology is sponsored by the Society for Computational Geometry.

With the broader computational geometry and topology community, we include researchers in discrete and combinatorial geometry, and any application area of computational geometry and topology. We also include algorithm engineering for geometric computations.

The journal publishes two types of papers. Firstly, the journal publishes original research of sufficient depth and interest. Secondly, the journal publishes high-quality survey papers. Every paper has been thoroughly reviewed by experts in the area.

To emphasize the breadth of the interpretation of computational geometry and topology, the editorial board has different sections that represent the algorithmic and mathematical aspects, the applied aspects, and the engineering aspects.

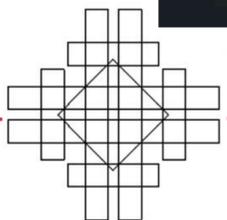
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Collection

[EXPLORE](#)[API](#)

CG:SHOP Instances

Welcome to the CG:SHOP Instances Collection, where scientific progress meets practicality. We curate a diverse range of high-quality, challenging optimization problem instances, empowering researchers with the tools they need for groundbreaking discoveries. Unlock the potential of your studies with our comprehensive collection.

[LEARN MORE](#)

Collection

EXPLORE

API



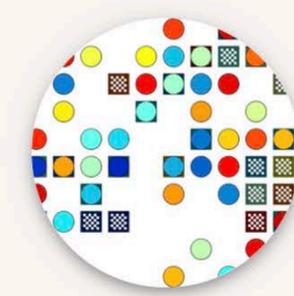
Maximum Polygon Packing

Optimal packing a set of objects into a given container.

[LEARN MORE](#)

Minimum Convex Partition

Partition a point set into a smallest set of convex faces.

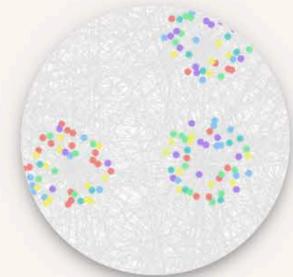
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Multi Agent Path Finding

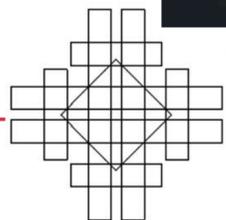
Compute a set of feasible trajectories a given set of robots and targets.

[LEARN MORE](#)

Minimum Coverage by Convex Polygons



Minimum Partition into Plane Subgraphs

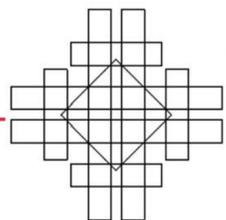


Challenge 2025

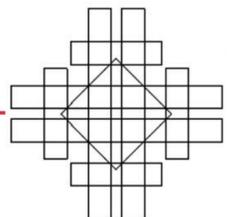
Last Call! Nominations close June 20, announcement shortly after!

To nominate a problem, please send the following by June 20 by email to s.fekete@tu-bs.de:

- An informal description of the problem
- A pointer to previous work, if any
- Further useful information on the state of practical solutions, if any
- Contact information of the nominator



Workshops 2024



SoCG:Workshops 2024

Submissions: 3

Final Acceptance: 3

SoCG SC serves as PC for Workshops

Timeline:

- January 26, 2024:
 - Intent-to-submit requested (not required)
- February 16, 2024:
 - Workshop proposals due
- February 23, 2023:
 - Notification of acceptance

Accepted Workshops:

- [Third International Workshop on Uncertainty in Computational Geometry](#)
- [Workshop on Directional Transforms in Applied Topology](#)
- [The 8th Workshop on Geometry and Machine Learning](#)

SoCG:Workshops 2024: Final Schedules

Part I: Thu (June 13, 2024) late afternoon

16:00-17:30	The 8th Workshop on Geometry and Machine Learning (Auditorium)	International Workshop on Uncertainty in Computational Geometry (Conference hall)
17:30-17:45	Coffee Break	
17:45-19:15	The 8th Workshop on Geometry and Machine Learning (Auditorium)	Workshop on Directional Transforms in Applied Topology (Conference hall)

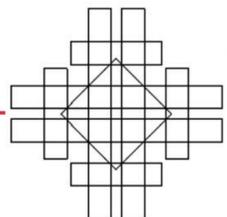
Part II: Fri (June 14, 2024) afteroon

14:30-16:00	Workshop on Directional Transforms in Applied Topology (Auditorium)	3rd International Workshop on Uncertainty in Computational Geometry (Conference hall)
-------------	--	--

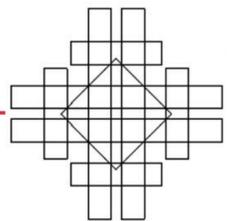
SoCG:Workshops 2024: Remarks

- The Intent-to-submit useful, giving us an idea of how many we might expect
- Further encourage the community to organize tutorials / short summer-courses (it is in the CFP, but perhaps can be further emphasized)
- One topic to discuss:
 - Scheduling is not easy. Workshop organizers and attendees in general would like to have consecutive time slots, which is very natural. This is challenging in existing CG-Week structure (hard optimization problem!)
 - In addition to potentially more segmented slots, some workshop might receive less desirable time slots than others
 - One possible idea:
 - Designate either the first day or the last day as the CG Week Workshop Day with all workshops / tutorials happening in a single day
 - Alternatively, designate 2 **full afternoons** to workshops
 - This is very common in many conferences in vision, graphics, machine learning etc

Test of Time Award



SoCG 2025



CGWeek 2025 in Kanazawa



Ryuhei Uehara

Professor at
Japan Advanced Institute of Science and Technology (JAIST)

Organizing Committee



Ryuhei Uehara (Chair)

Japan Advanced Institute of Science and Technology (JAIST)



Yoshio Okamoto

University of Electro-Communications



Giovanni Viglietta

Aizu University



Tonan Kamata

JAIST

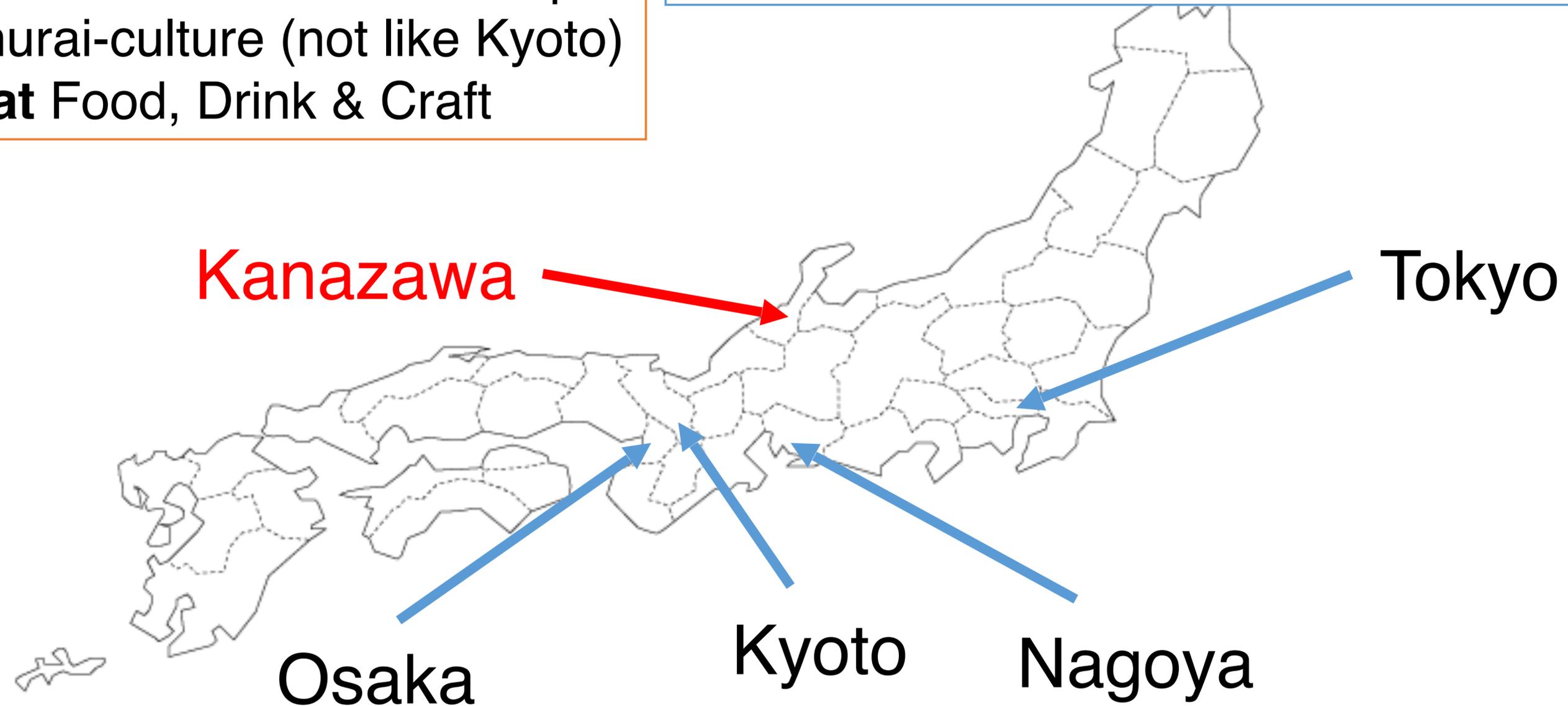
Where Kanazawa

Short bio...

- One of the oldest cities in Japan
- Samurai-culture (not like Kyoto)
- **Great Food, Drink & Craft**

Easy to access

- 1 hour flight from Tokyo
- 2.5 hour bullet train from Tokyo
- 2 hour train from Osaka/Kyoto/Nagoya
- Direct flight from Taiwan! (since April, 2023)



CGWeek 2025 in Kanazawa

Date: June 23(Mon)-27(Fri), 2025

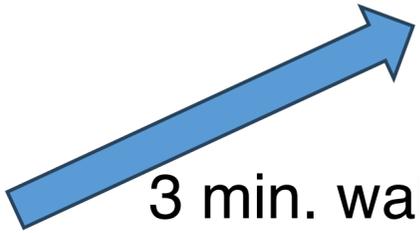
Venue: Hotel Kanazawa

(in front of Kanazawa station)



JAIST Office

Lecture room for 80 people



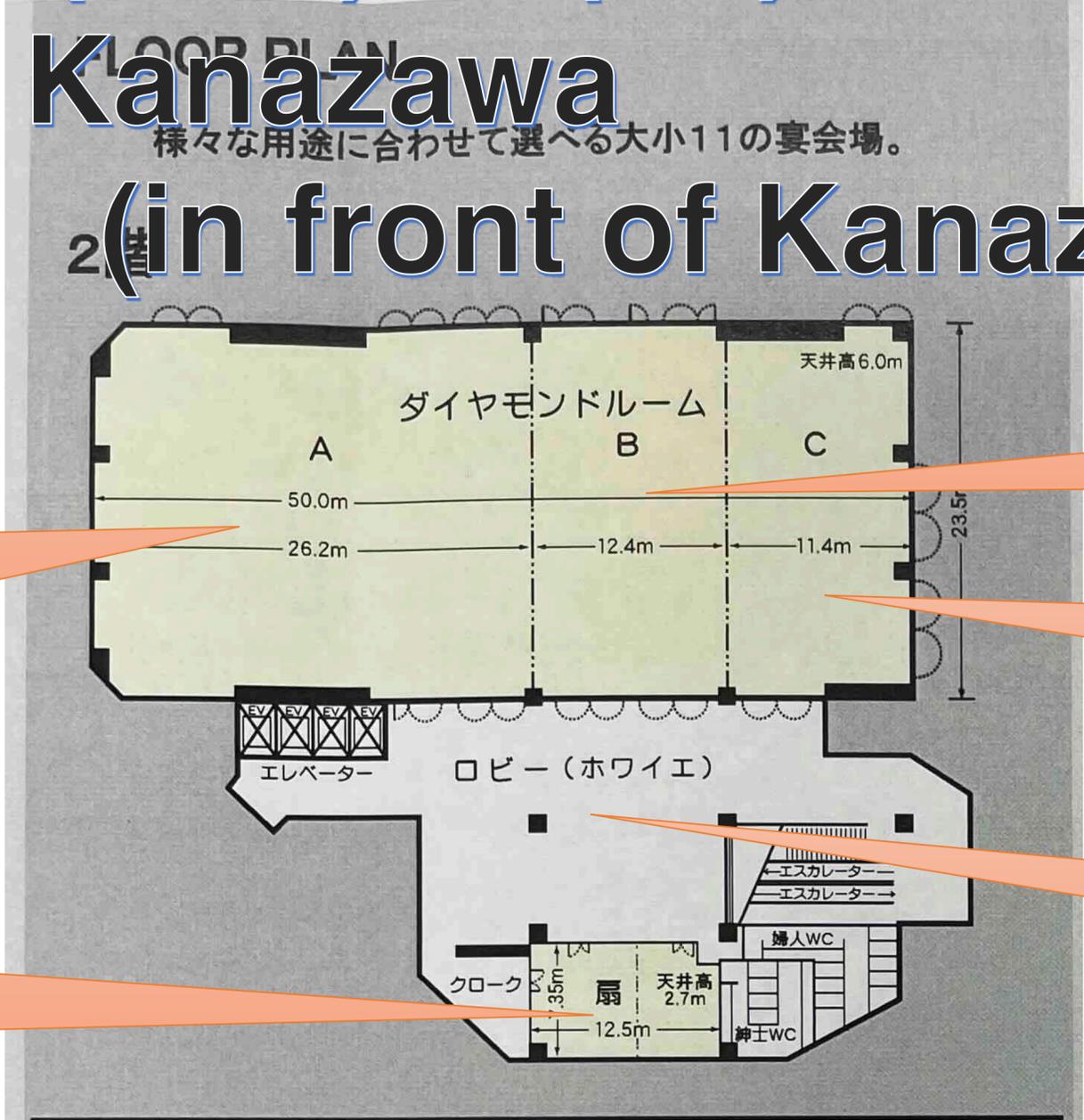
3 min. walk

CGWeek 2025 in Kanazawa

Date: June 23(Mon)-27(Fri), 2025

Venue: Hotel Kanazawa

(in front of Kanazawa station)



Lecture room for 200 people

For 100 people

For 100 people

For 40 people Workshops?

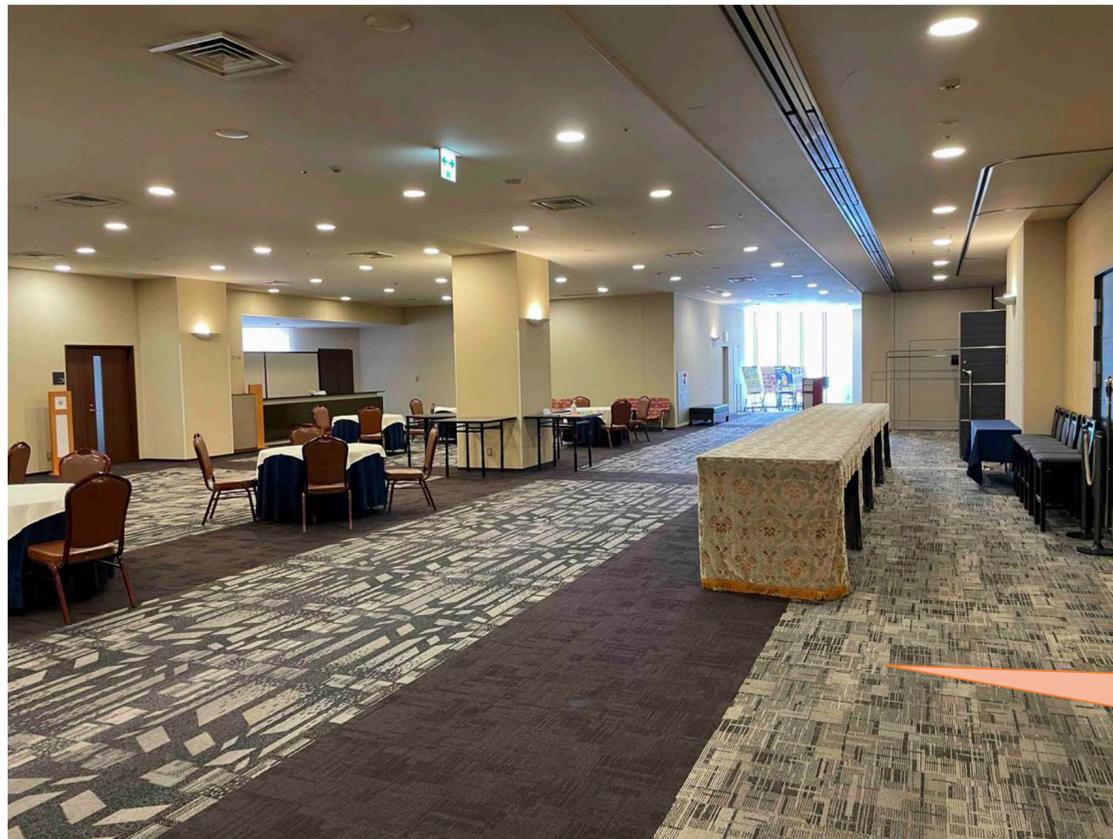
Big lobby

CGWeek 2025 in Kanazawa

Date: June 23(Mon)-27(Fri), 2025

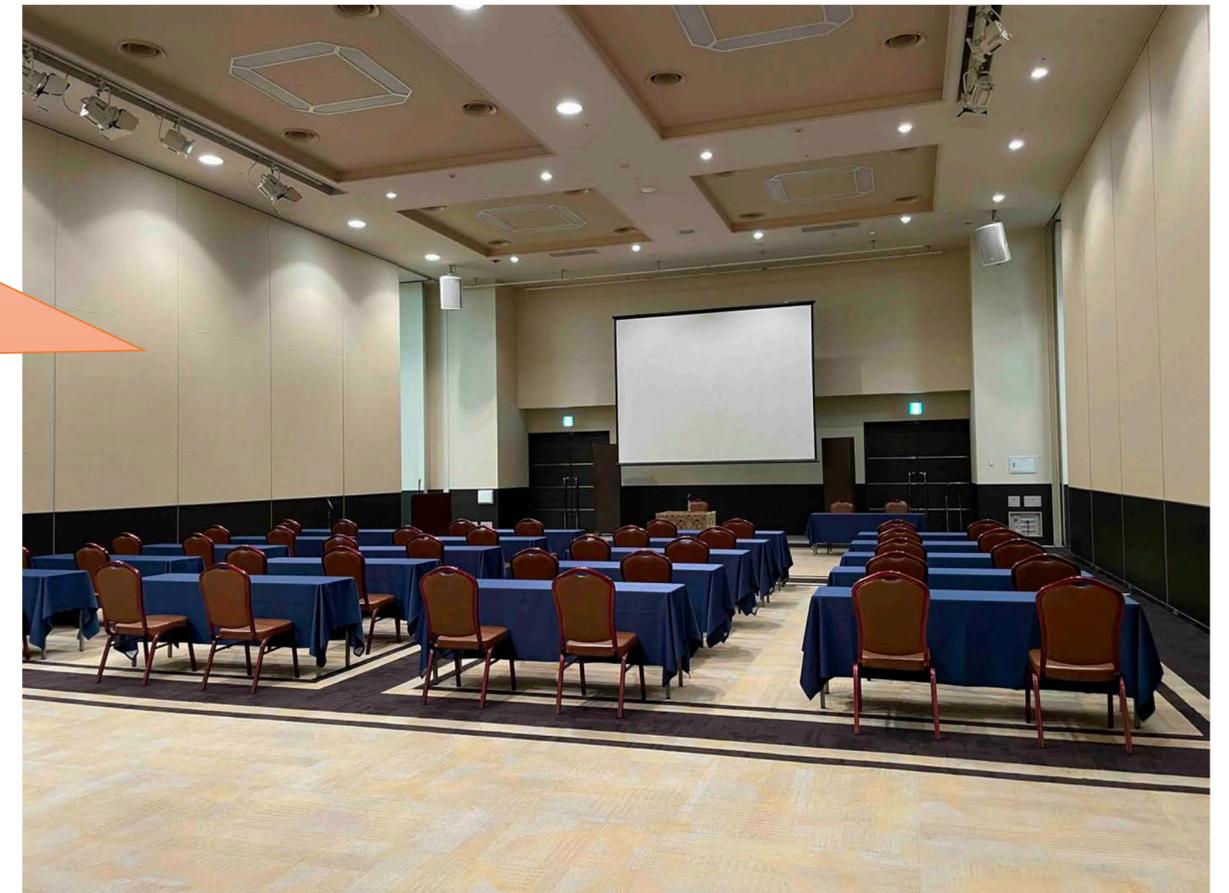
Venue: Hotel Kanazawa

(in front of Kanazawa station)



Lecture room
for 100 people

Big lobby



Accommodation

There are a number of hotels within walking distance to the station, and prices are quite reasonable now:

Major price ... USD45?

Top Picks for Solo Travelers



Hotel Kanazawa ★★★
Genius

8.3 Very Good
1319 reviews

Twin Room - Non-Smoking
2 beds

1 night, 1 adult
~~US\$57~~ **US\$49**
Additional charges may apply

Only 2 rooms left at this price on our site



Henn na Hotel Kanazawa Korimbo ★★★★★
Genius

8.2 Very Good
1654 reviews

Getaway Deal

Standard Double Room
1 bed

1 night, 1 adult
~~US\$57~~ **US\$37**
Includes taxes and fees

Earn US\$3 Credits
Free cancellation

Only 1 room left at this price on our site



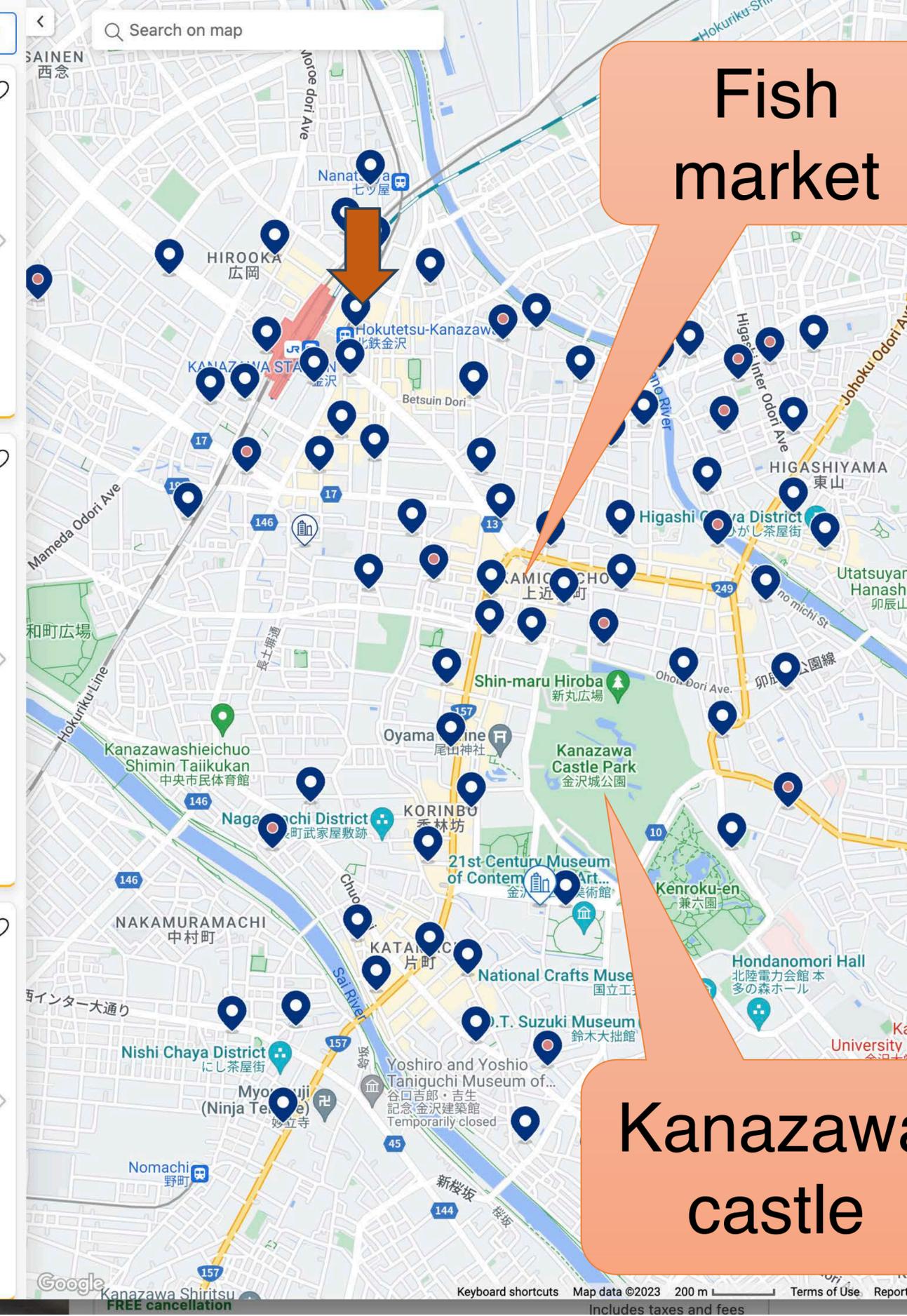
the square hotel KANAZAWA ★★★★★
Genius

8.6 Excellent
4355 reviews

Superior Double Room - Non...
1 bed

1 night, 1 adult
~~US\$63~~ **US\$53**
Includes taxes and fees

Earn US\$4 Credits
Free cancellation



CGWeek 2025 in Kanazawa

Registration fee should be reasonable by the following

Financial Supports:

- by **Ishikawa Prefecture & Kanazawa city**

It was originally partially designed by **Tetsuo Asano** when he was the president of JAIST.

- by **JSPS (Japan Society for the Promotion of Science)**

- by **JAIST** (though **Tetsuo** is not the president now...)

Ryuhei is a vice president and the dean of all schools now....

Attractions of Kanazawa (1)



Old town made by Samurai Culture

Attractions of Kanazawa (2)



Nice food, drink, and others
Especially, Sushi and Sake!



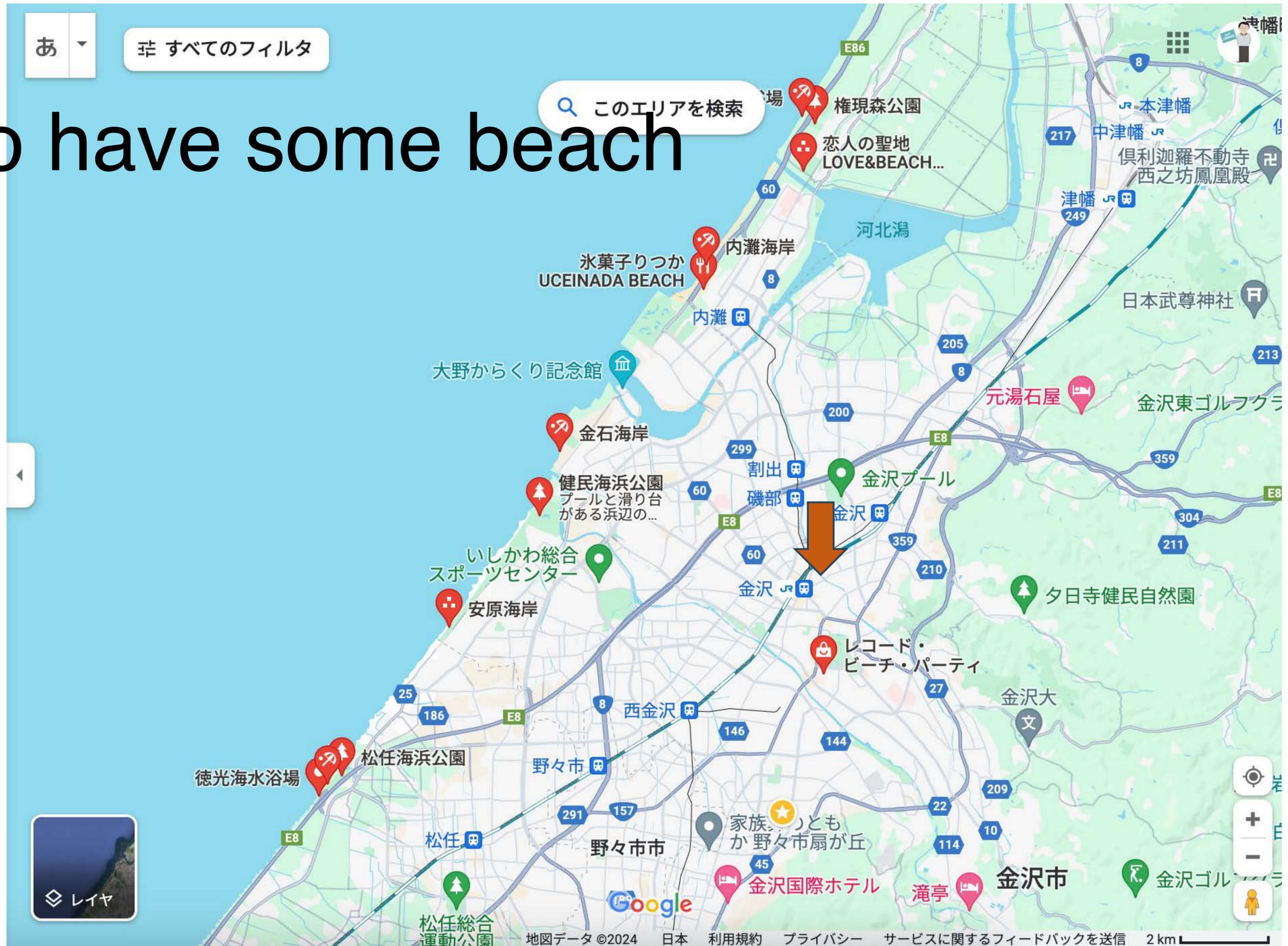
Attractions of Kanazawa (3)



New attractions, arts and crafts



We also have some beach



CGWeek 2025 in Kanazawa (“Gold Valley”)

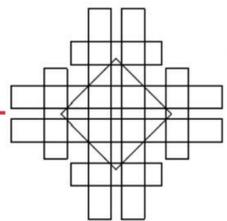
Hope to see you in Kanazawa!!

Date: June 23(Mon)-27(Fri), 2025

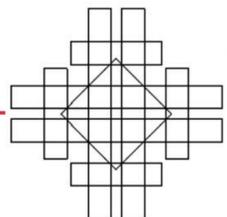
Venue: Hotel Kanazawa
(in front of station)



CGWeek 2026



(1) Rutgers/DIMACS



SoCG 2026

New Brunswick, NJ, USA

DIMACS @ Rutgers University

Co-Host:

Jie Gao (Computer Science, Rutgers)

David Pennock (DIMACS, Rutgers)

Tamra Carpenter (DIMACS, Rutgers)



RUTGERS
THE STATE UNIVERSITY
OF NEW JERSEY

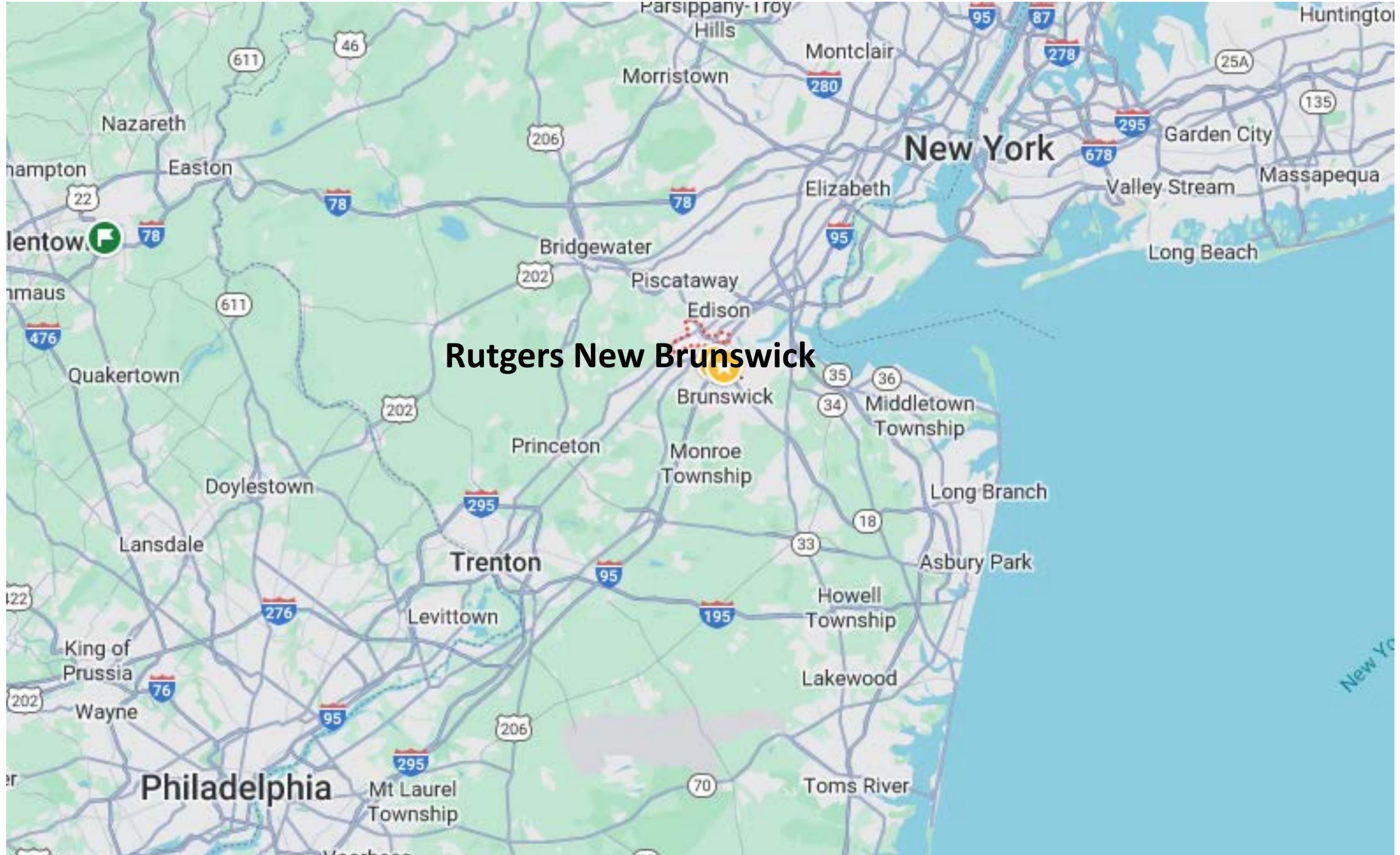
DIMACS

Center for Discrete Mathematics and Theoretical Computer Science
Founded as a National Science Foundation Science and Technology Center



Bring SoCG back to East Coast of US in 2026

- High density region for CG people
- Driving distance/train ride from Boston, Washington DC, North Carolina
- Last time at NY/NJ area: 2004 at Brooklyn
- Last time at East Coast: 2016 at Boston



Rutgers New Brunswick



LGA

EWR

JFK

NJtransit

**EWR: United hub,
Direct flights from Europe**

College Avenue Campus, Downtown New Brunswick





0.3 mile
7 mins walking



0.6 mile
14 mins walking
5 mins by car



NJ transit to NYC
Amtrak to Boston/DC



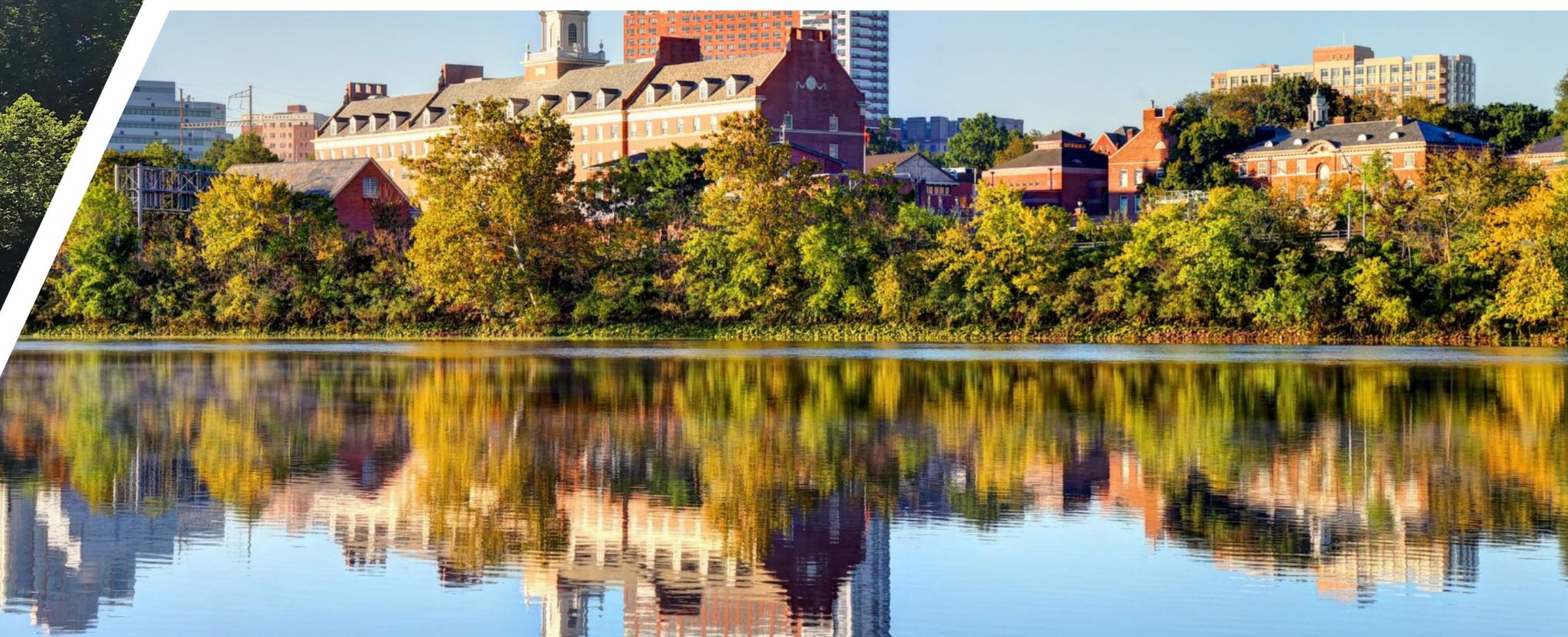
Accommodation and Rates

- Walking distance <15mins
 - Hyatt Regency New Brunswick (3-star, \$155)
 - The Heldrich Hotel (4-star, \$101-\$150 (weekday-weekend rates))
- Within 10mins by car (Uber)
 - Hampton Inn North Brunswick (3-star, \$101)
 - Hilton East Brunswick (4-star, \$102-\$155)
 - Double Tree by Hilton Somerset (3-star, \$126)
 - Crowne Plaza Edison (4-star, \$129)
 - Home2 Suites by Hilton New Brunswick (4-star, \$157)
 - Residence Inn (Marriot) New Brunswick (4-star, \$151)
- Student travel award: Rutgers Inn (8-min by car, 3-star, \$100)

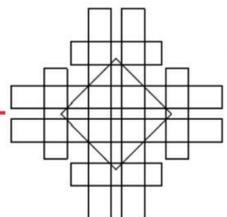
Practicalities

- Dates: May 18-22, 2026 (break between spring/summer terms)
- Registration fees: aim to keep it low (<\$400)
- Will apply NSF travel grant for student travel support

Welcome to Rutgers 2026!



(2) Munich



SoCG 2026 in Munich



Organization

Ulrich Bauer



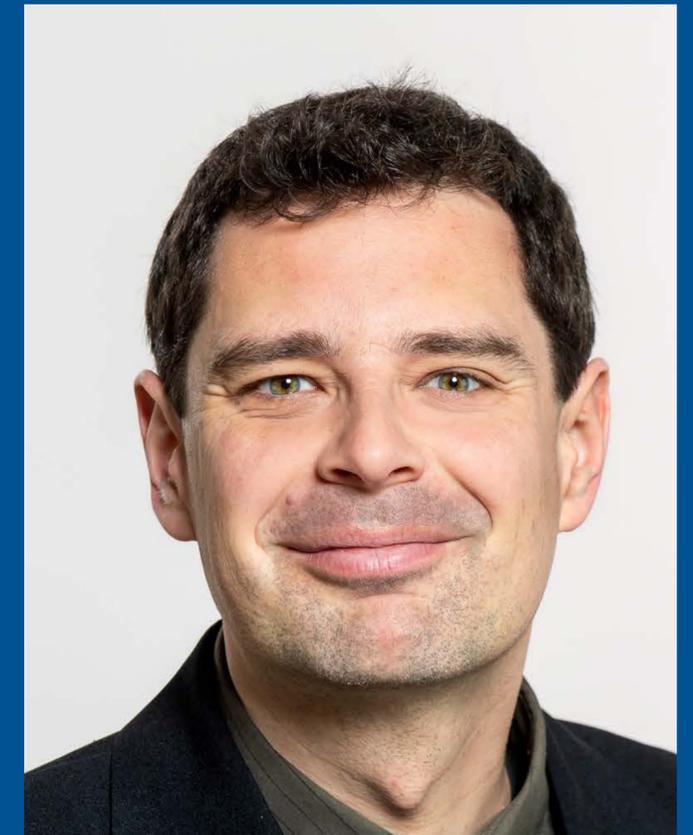
Bastian Rieck



Stefan Weltge



Andreas Wiese



Munich



1.5M

Inhabitants

12/22°C

53/72°F

Climate in June





Train

Travel times from:

Frankfurt, Zürich: 3.5 h

Berlin, Vienna: 4 h

Paris, Hamburg, Verona: 5.5 h

Prague: 6 h

Amsterdam: 8 h

Rome: 9.5 h

Airplane

Direct flights from:

210 cities worldwide

144 cities in Europe

- Hubs: Frankfurt, Amsterdam, London, Paris

Public transportation from airport

- to Munich (Marienplatz): 36 min
- to Garching (TUM campus): 32 min





Local trains

Direct subway U6 from city center to conference venue:

Marienplatz – Garching Forschungszentrum
29 min

Technical University of Munich

- Founded 1868
- Among top ranked universities in Europe
- 7 Schools
- School of Computation, Information & Technology (CIT):
 - Mathematics
 - Computer Science
 - Computer Engineering
 - Electrical engineering



Facts and Figures



7,883

Scientific staff
(148 math / 362 CS)



12,051

Employees

666

Professors
(45 math / 50 CS)



52,580

students enrolled



1,141

PhDs / year

more than

9,500

Graduates per year



Conference venue: Galileo

Lecture halls

- Audimax (1300)
- 14 further rooms (120, 108, 93, 72, 72, ...)



Accommodation

Several hotels on campus or 1–2 subway stops away

- Typical hotel rates: 95–120 €

Numerous options in Munich city center

- along subway U6 (direct train to venue, < 30 min)
- Check and book early



Dates

June 15 – 19, 2026

– or –

August 10 – 14, 2026

- Lunches are planned to be included
- We aim for a modest registration fee (but catering in Munich isn't cheap)
- The August dates would give us larger rooms for free (off-semester)

Tourist attractions



- Nymphenburg castle
- Olympic village (tent roof tour)
- Englischer Garten (famous beer garden)
- Pinakotheken (art galleries)
- Deutsches Museum (technology museum)
- Marienplatz (Rathaus, Alter Peter Frauenkirche)

See you in Munich?



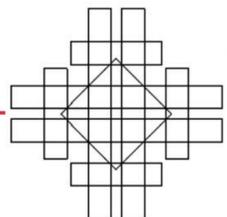
Voting

DIMACS/Rutgers:

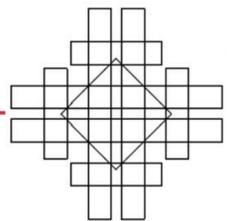
- 61

Munich:

- 41



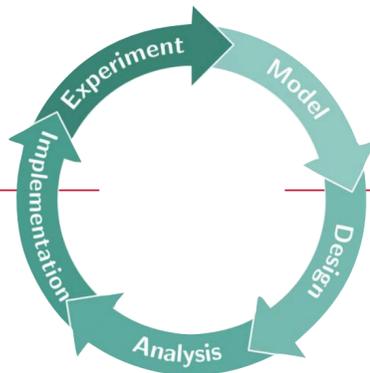
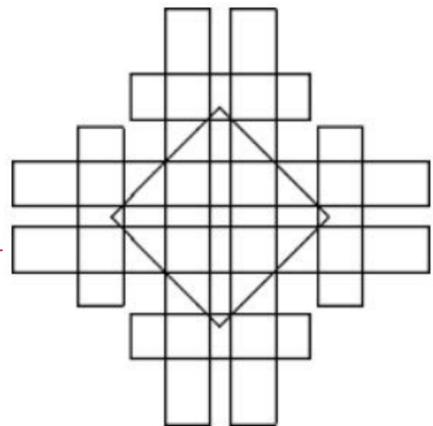
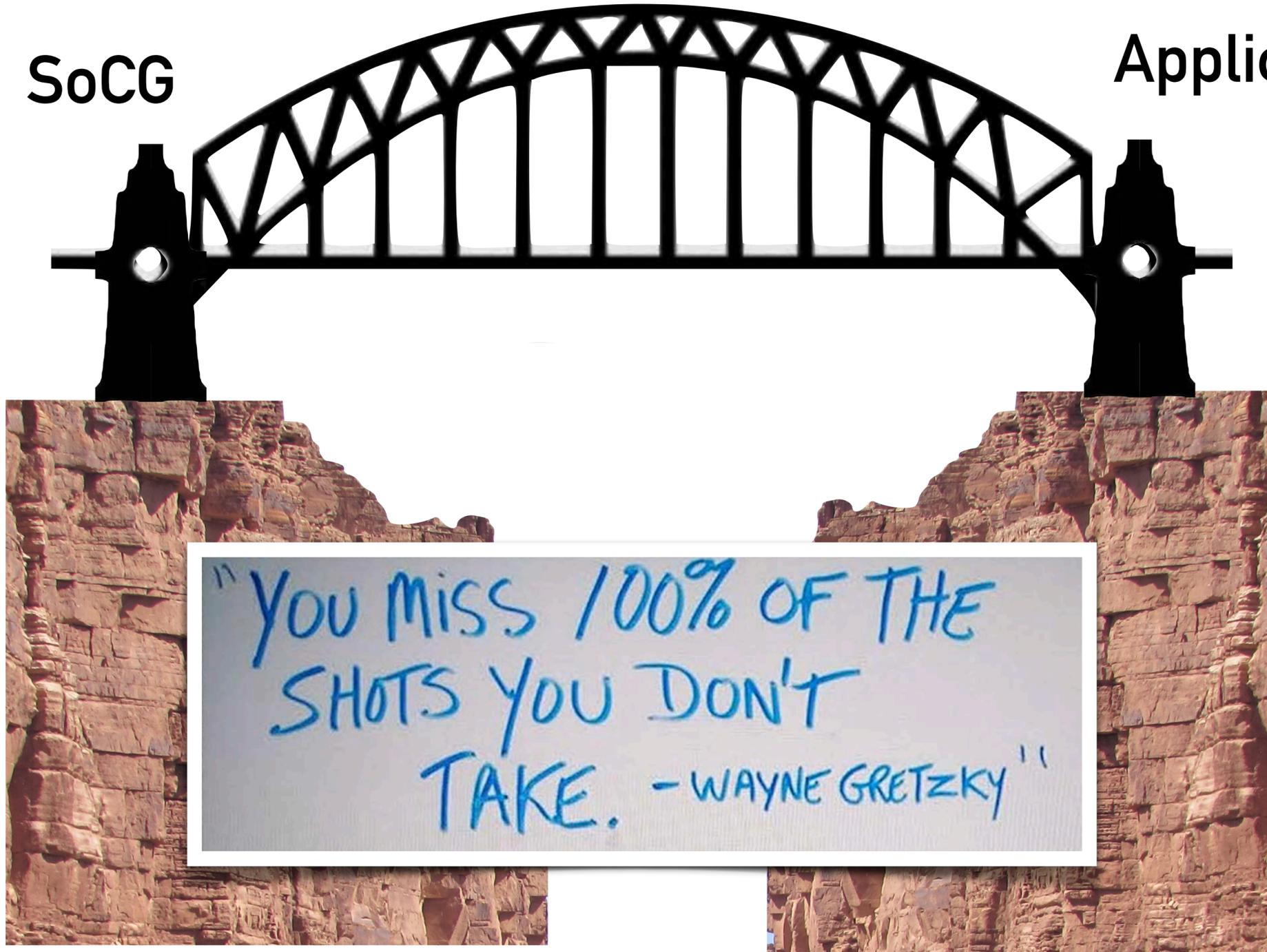
Applied Track



Let's Give It a Try!

SoCG

Applications



Proposal

1. Discuss:

Discussion Forum

2. Task Force:

Vote at BM, let new SC appoint TF

3. Elaborate:

Continue discussion, work out details

4. Vote:

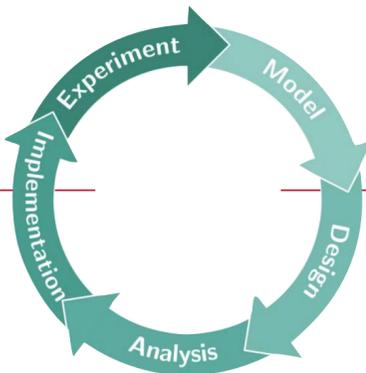
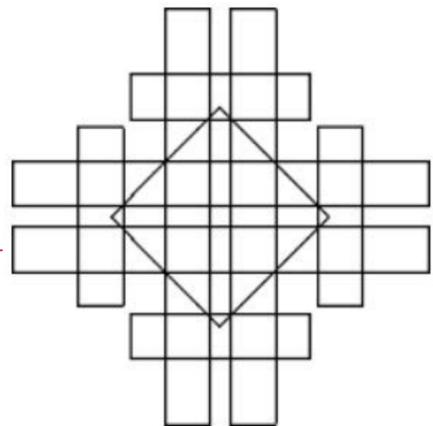
Electronically, some time soon

5. Try out:

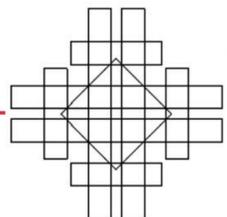
When?

6. Improve:

Try, evaluate, refine



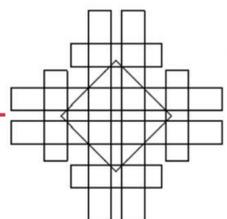
„Old“ Society



Society for Computational Geometry (SoCG) (the “old/original society” versus “new society”)

- Incorporated as nonprofit in January 2019 (Missouri)
- Current directors:
Erin Chambers, Joe Mitchell, Dave Mount, Yusu Wang
- Current bank balance: \$32,742.74
 - Deposits:
 - \$6200 (CG Week 2021)
 - \$7062.23 (CG Week 2020)
 - \$2,987.87 (CG Week 2019), \$7500 (Mentor Graphics)
 - \$4,246.24 (CG Week 2017)
 - \$5,430.00 (CG Week 2016)
 - Payments:
 - LegalZoom, to incorporate: \$397.10
 - Missouri Registered Agent: \$40, \$40, \$40, \$40, \$40, \$40 in 2019,2020,2021,2022, 2023, 2024
 - Corporate Registration Report: \$10-15 (annual, each August)

„New“ Society



CG Society

Updates

Bettina Speckmann

Herman Haverkort

Frank Staals

Marc van Kreveld

CG Society

The society has the goal to promote scientific research in computational geometry and computational topology by organizing the free, international exchange of knowledge, experience, and ideas in these research areas.

- The society organizes scientific events in a safe and inclusive manner
- Only members of the society can attend the events



We exist!

May 24, 2024

Kvk: 93950659

Structure

Computational Geometry Society

Board

Frank Staals, Marc van Kreveld,
Bettina Speckmann, Wolfgang Mulzer

manages day-to-day operation of the society

IT Committee

Yossi Bokor Bleile, Fabian Klute,
Willem Sonke

manages necessary IT infrastructure (e.g. website, BeLenios, mailinglist)

Audit Committee

checks the annual financial report

Code of Conduct Committee

receives, hears, and evaluates accusations of misconduct

CG Week Steering Committee

General chairs of CG Week

CG Week Local Organizers 2025

Organizes CG Week in 2025

EuroCG Local Organizers 2025

Organizes CG Week in 2025

EuroCG

EuroCG 2024 decided with a clear majority

63 yes 10 no 1 blank

that it will be organized as a CG Society event starting in 2025

The local organizers of EuroCG 2025 agreed to host
the first CG Society event

Next steps

Summer 2024

IT Committee sets up IT infrastructure

Early Fall 2024

Accept member registrations

Late Fall 2024

Call for elections for the Board

March 2025

EuroCG organized as CG Society event

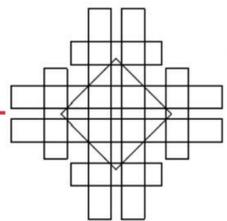
June 2025

CG Week organized as CG Society event

June 2025

1st (online) General Assembly

TheoretICS



TheoretiCS

- New, open-access journal for all of TCS
 - Diamond/platinum OA: no fees for authors or readers
- Joint project involving broad TCS community, with Advisory Board members including representatives from major TCS conferences (FOCS, STOC, SODA, ICALP, SoCG,...)
SoCG rep: Joe Mitchell
- Editors-in-Chief:
 - Uri Zwick (“Track A”), Javier Esparza (“Track B”)
- Editorial board includes: Joe Mitchell and Dave Mount
- Target level: Very high quality (SICOMP-JACM)
- Open Dec 2021; first papers appeared Dec 2022
- Free Journal Network (FJN), KOALA (German National Library of Science and Technology) funding, included in Directory of Open Access Journals (DOAJ)
- SoCG: A top SoCG paper invited to TheoretiCS, starting 2024

More info: <https://theoretics.episciences.org/>

TheoretiCS Status	2021	2022	2023	2024
Submissions	7	52	42	32 (as of May 23)
Accepted	1	22	7	
Awaiting decision	0	1	11	

TheoretiCS follows a two-stage review process.



Recent CG paper in TheoretCS:

Framework for $\exists\mathbb{R}$ -Completeness of Two-Dimensional Packing Problems

[FOCS 2020]

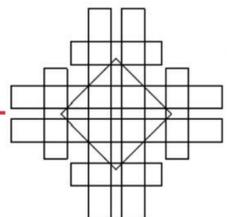
Authors: Mikkel Abrahamsen ; Tillmann Miltzow ; Nadja Seiferth.

— The aim in packing problems is to decide if a given set of pieces can be placed inside a given container. A packing problem is defined by the types of pieces and containers to be handled, and the motions that are allowed to move the pieces. The pieces must be placed so that in the resulting placement, they are pairwise interior-disjoint. We establish a framework which enables us to show that for many combinations of allowed pieces, containers and motions, the resulting problem is $\exists\mathbb{R}$ -complete. This means that the problem is equivalent (under polynomial time reductions) to deciding whether a given system of polynomial equations and inequalities with integer coefficients has a real solution. We consider packing problems where only translations are allowed as the motions, and problems where arbitrary rigid motions are allowed, i.e., both translations and rotations. When rotations are allowed, we show that it is an $\exists\mathbb{R}$ -complete problem to decide if a set of convex polygons, each of which has at most 7 corners, can be packed into a square. Restricted to translations, we show that the following problems are $\exists\mathbb{R}$ -complete: (i) pieces bounded by segments and hyperbolic curves to be packed in a square, and (ii) convex polygons to be packed in a container bounded by segments and hyperbolic curves.

Volume 3

Published on April 26, 2024

Computing in Geometry and Topology





Computing in Geometry and Topology

- CGT has published 30 papers so far (first issue: 2-2-2022)
- Two papers were rejected
- There are 29 submissions being handled now
- Special issues of CCCG and EuroCG
- We are just as fast (or slow) as the other CG journals (no surprise, the reviewers are the same)
- Zero survey papers were submitted

Editorial board

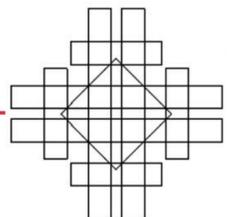


Computing in Geometry and Topology

- Maïke Buchin
- Jean Cardinal
- Siu-Weng Cheng
- Csaba Toth
- Haitao Wang
- Erin Chambers
- Eric Colin de Verdiere
- Arnaud de Mesmay
- Michael Kerber
- Elizabeth Munch
- Nancy Amato
- Tim Dwyer
- Stefan Funke
- Jeff M. Phillips
- Valentin Polishchuk
- Birgit Vogtenhuber (new)

Surveys: Joe Mitchell

Workshop Announcements



FWCG: Fall Workshop on Computational Geometry

- FWCG'24 is planned for Nov 15-16 (Fri+Sat), hosted by Tufts University (thanks to Diane Souvaine, Hugo Akitaya, Csaba Toth, Gill Barequet, et al)
- Watch for the call!

Computational Persistence (ComPer) 2024



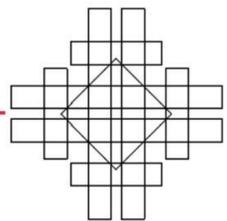
comper2024.tugraz.at

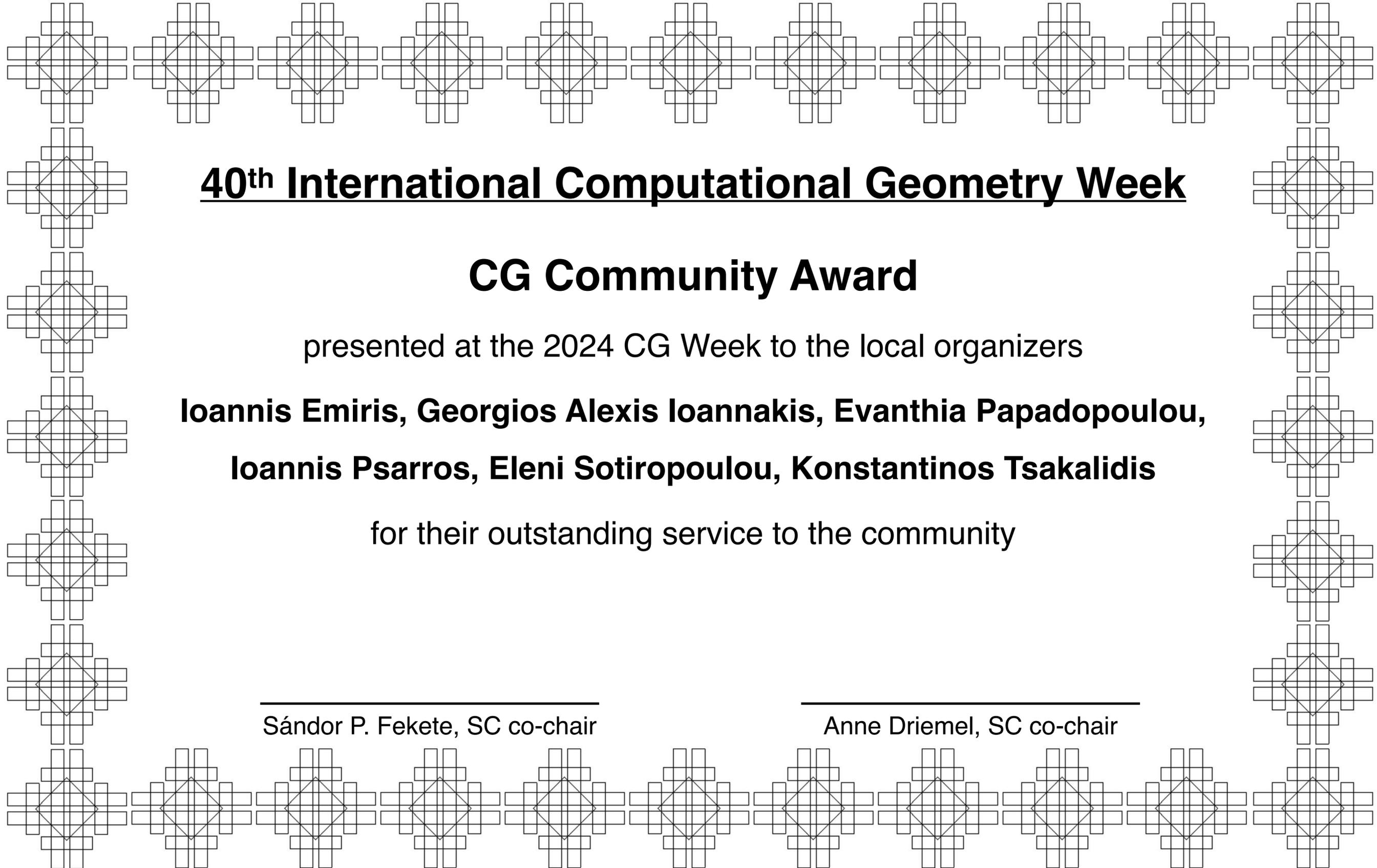
September 23-27 2024

- Invited+Contributed talks
- Deadline: June 21
- Hybrid format
- Sessions in the afternoon (2-6pm)

Many Thanks!

- CG Week organizers and support staff





40th International Computational Geometry Week

CG Community Award

presented at the 2024 CG Week to the local organizers

**Ioannis Emiris, Georgios Alexis Ioannakis, Evanthia Papadopoulou,
Ioannis Psarros, Eleni Sotiropoulou, Konstantinos Tsakalidis**

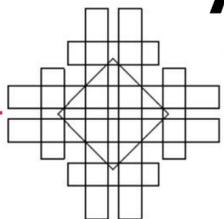
for their outstanding service to the community

Sándor P. Fekete, SC co-chair

Anne Driemel, SC co-chair

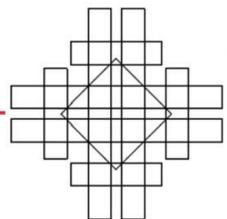
Many Thanks!

- CG Week organizers and support staff
- SoCG PC and reviewers
- Media committee
- YRF committee
- Workshop organizers
- Challenge committee
- Test of Time Award committee
- Proceedings chair
- All authors and speakers
- All participants



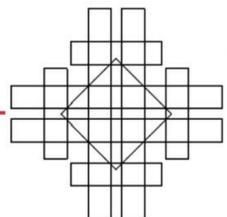
On Behalf of the Steering Committee:

- Anne Driemel (co-chair)
- Sándor Fekete (co-chair)
- Matya Katz
- Marc van Kreveld
- Joe Mitchell
- Yusu Wang



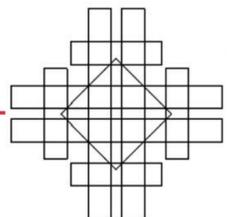
On Behalf of the Steering Committee:

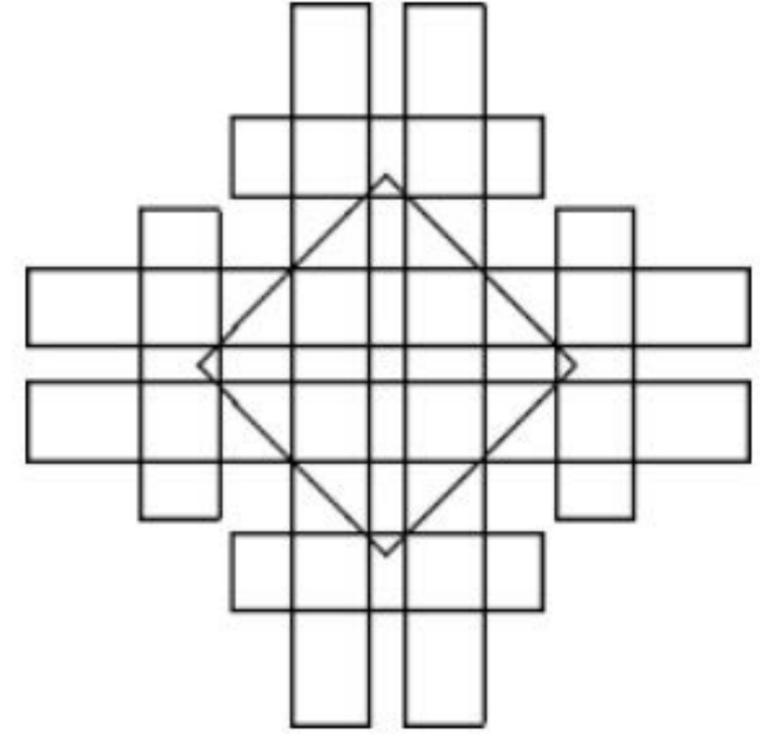
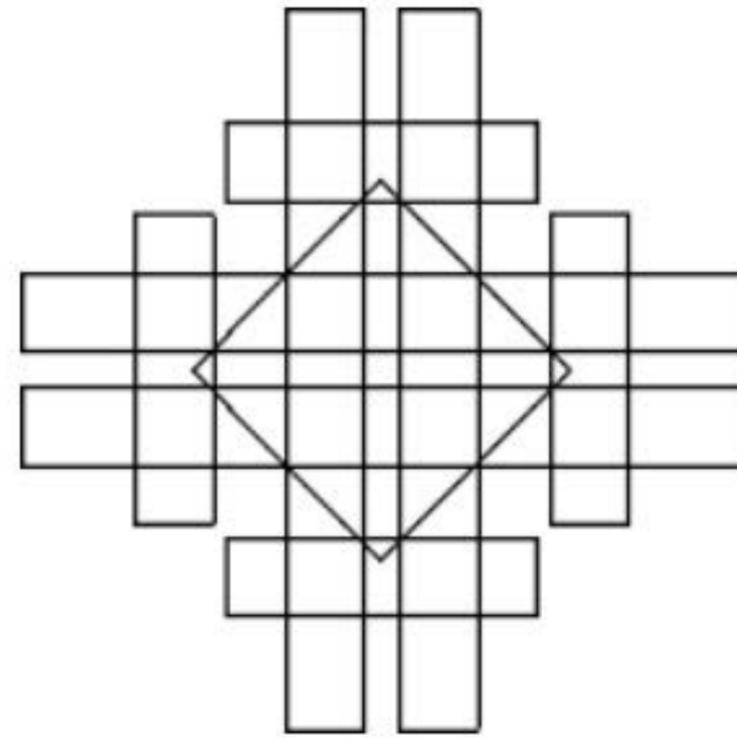
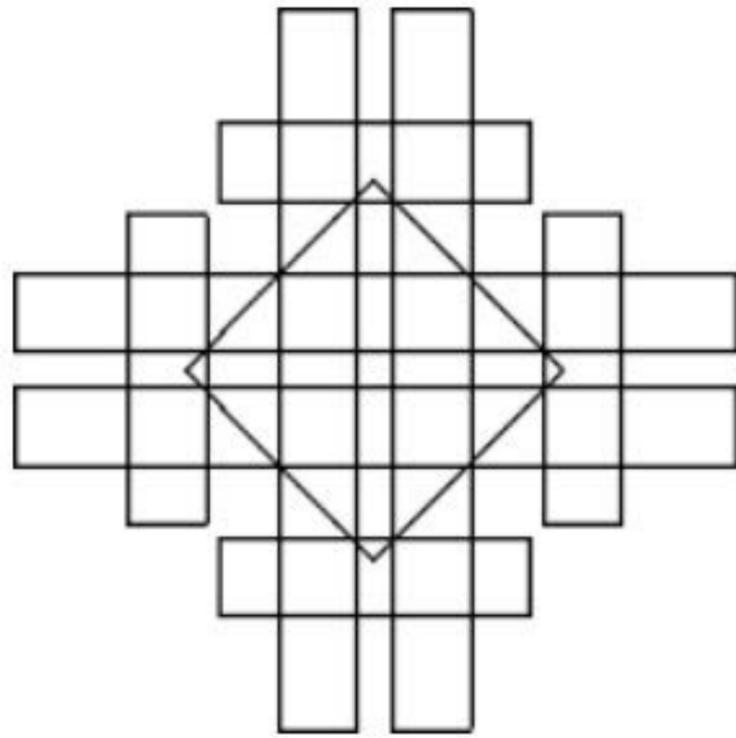
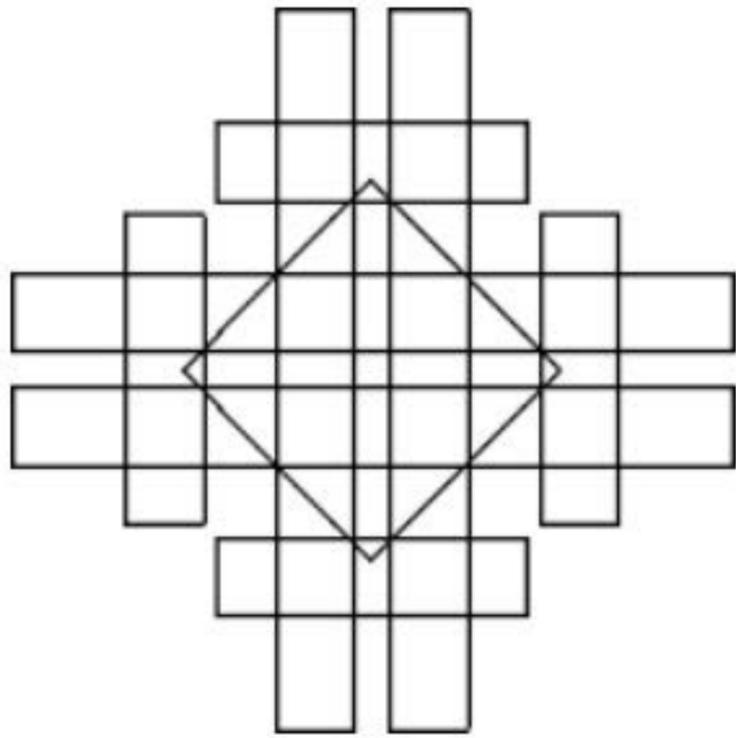
- Anne Driemel
- Marc van Kreveld
- Joe Mitchell



On Behalf of the Steering Committee:

- Anne Driemel
- Marc van Kreveld
- Joe Mitchell
- Maïke Buchin
- Erin Chambers
- Wolfgang Mulzer





Business Meeting 2024

Athens, June 12, 2024