

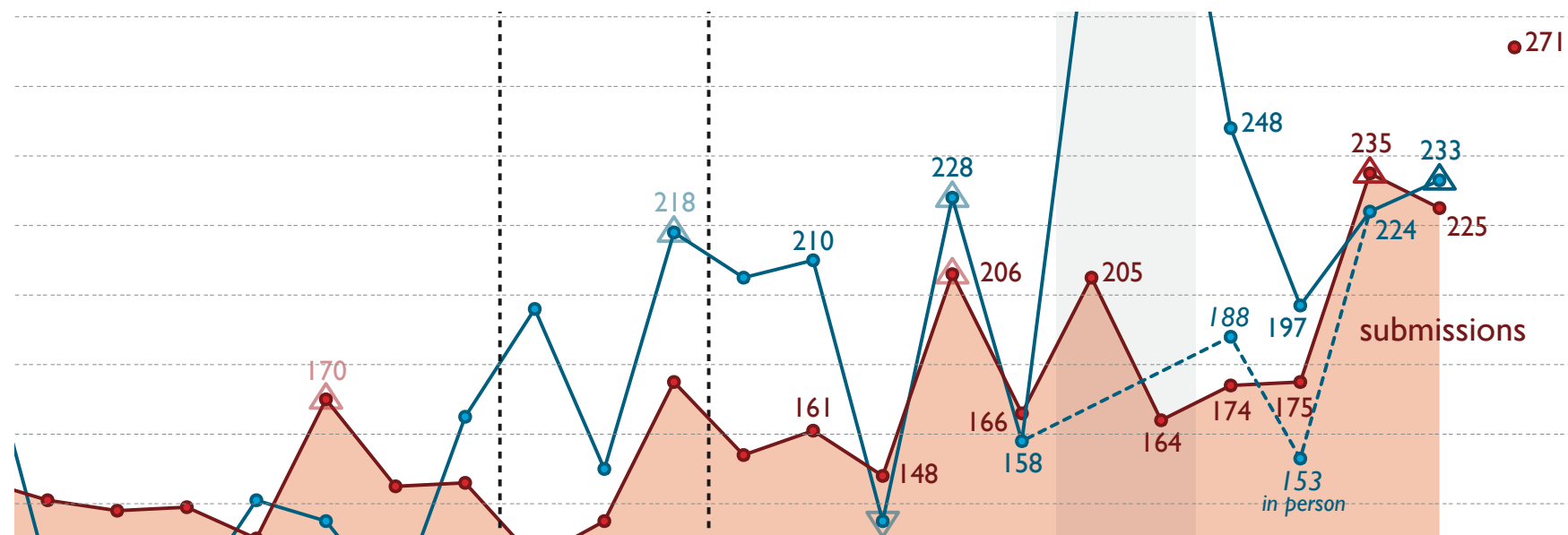


SoCG 2026 PC Report

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Michael Hoffmann
Amir Nayyeri

PC Work

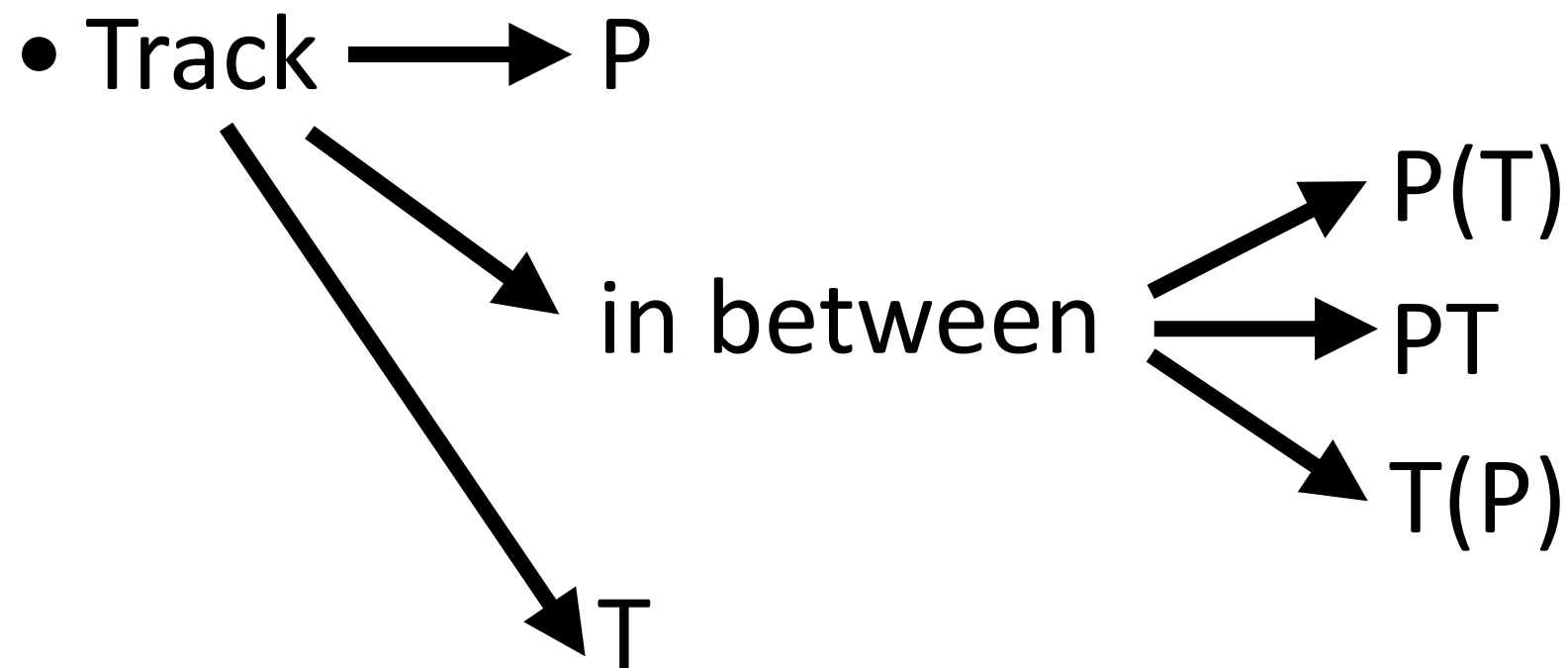
Problem: How to get high quality reviews and decisions on 332 abstracts and 272 papers?



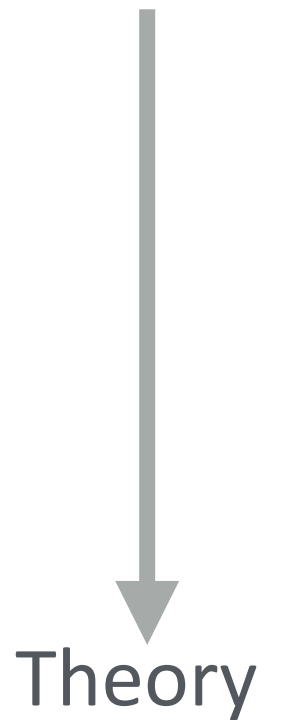
- Not feasible to look at all of them in detail.
- => Need additional data, concise and descriptive.
- What data? How to make it easy for authors to provide and for PC members to process this data?

Submission Data

Goal: Minimally invasive => ask what is needed only.



Practice



- Paper Type:
 - Mathematical Foundation
 - Algorithmic complexity
 - Implementation and Engineering
 - Experimentation

Submission Data

Goal: Minimally invasive => ask what is needed only.

- Interdisciplinary Contribution?
- Area
 - Geometry, Topology, Both, Neither
- Topics (35)
- Abstract, Paper, Supplemental Data, Conflicts
- Simultaneous submission to journal?
- Student paper?

Submission & Review Process

Goal: Give authors agency to declare contributions concisely and descriptively
=> easier to find suitable reviewers.

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Reviewers may judge contribution differently => shift evaluation towards the strengths (“switch tracks”).

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=> easier to find **suitable reviewers**.



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Reviewers may judge contribution differently => **shift evaluation** towards the strengths (“switch tracks”).

Call for **openness** w.r.t. type of contribution, topics, methods, connections to other fields, etc.

Track Alignment

Aim for three independent reviews.

P	: three reviews by P committee	
P(T)	: two reviews by P and one by T	
PT	: the PC decides	
T(P)	: one review by P and two by T	
T	: three reviews by T committee	

Paper Types

Problem: Term “application” is too overloaded and too narrow at the same time; it is transversal to all types.

Changes:

- no paper type “Applications” anymore
 - split “Experiments & Implementation” in two types
 - a number of minor changes in descriptions
-
- Mathematical Foundations
 - Algorithmic Complexity
 - Implementation & Engineering
 - Experimentation

Interdisciplinary Work

Treat contributions that involve **connections** from/to other fields and application domains as a separate new top-level category.

—> checkbox and textfield for brief description

- orthogonal to $P \longleftrightarrow T$, area, topics, etc.
- emphasize value of such contributions
- emphasize need for sufficient explanations/context
- consider in review —> textfield in review form

Goals

- Keep acceptance ratio in a similar range.
- No quotas on anything. Select the best submissions. Balance considerations used for tie breaking only.
- Be open to new topics, directions, techniques, types of contributions, connections that go beyond CG&CT.
- Make all decisions solely based on qualitative information in the reviews and discussions by the PC. Use scores to steer the process only, not to decide.

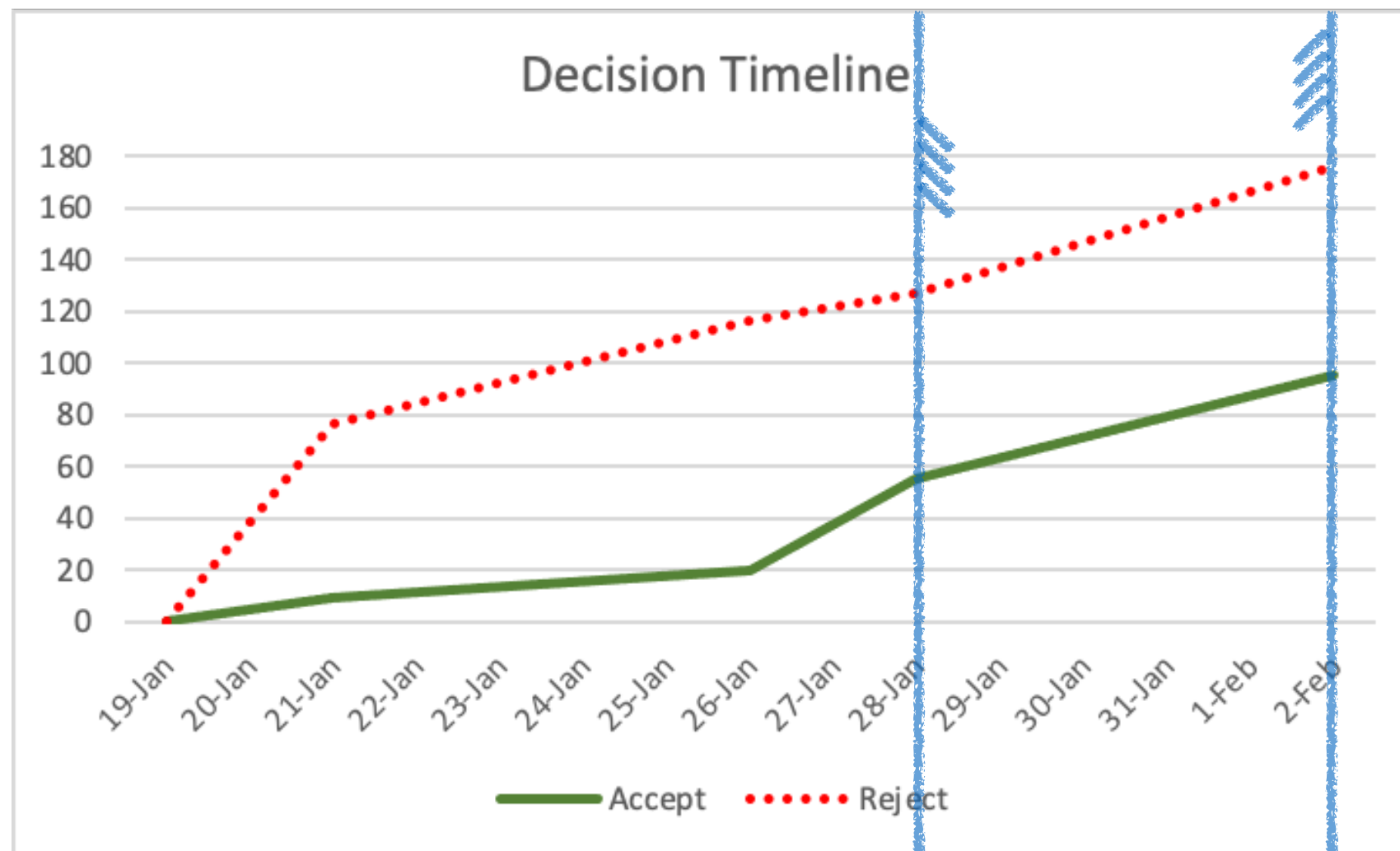
Review Process



Round 1–3: Unanimous decisions by six people (3 PC members + 3 chairs).

Goal: Find 1st half of accepted papers, reduce pool so that half of the remaining papers can be accepted.

Review Process



Final phase: Discuss the remaining papers until reaching a decision. For each paper accepted, reject another one.

In this phase, also consider balance of topics, etc.

Last three papers decided in a meeting with the involved PC members.

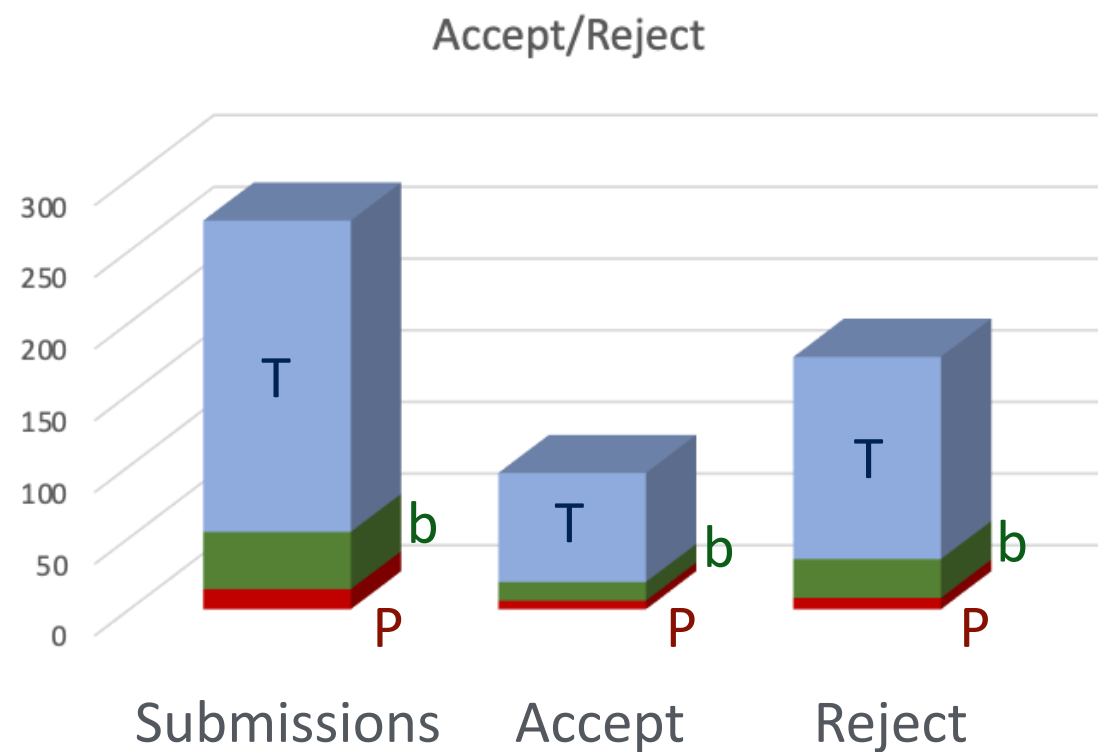
Review Process Stats

#reviews	2	3	4	5	6
#papers	2	250	18	0	1

In total 1'893 discussion comments, on average 7 per paper (min: 1, max: 44, final phase average: 10).

In total 507'078 words of review, on average 1'871 per paper (min: 371, max: 4'864).

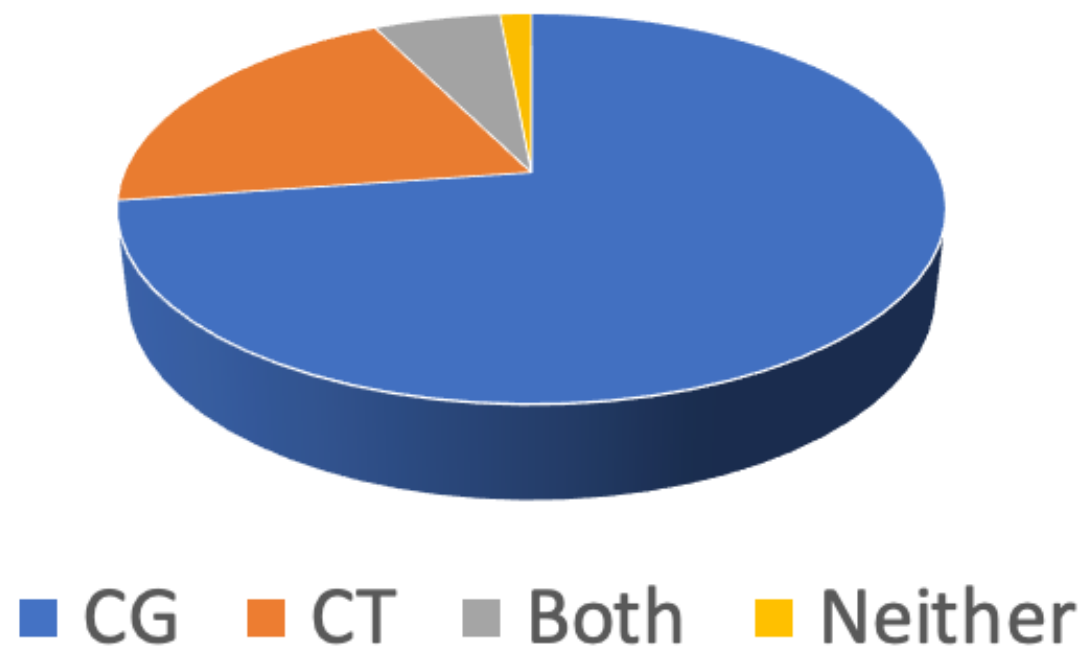
Results



	Submissions	Accept	Ratio
T	217	76	35.0%
between	40	13	32.5%
P	14	6	42.9%
Total	271	95	35.1%
2025	225	78	34.7%
2024	235	83	35.3%
2023	175	61	34.9%
2022	174	64	36.8%
2021	164	58	35.3%

Areas

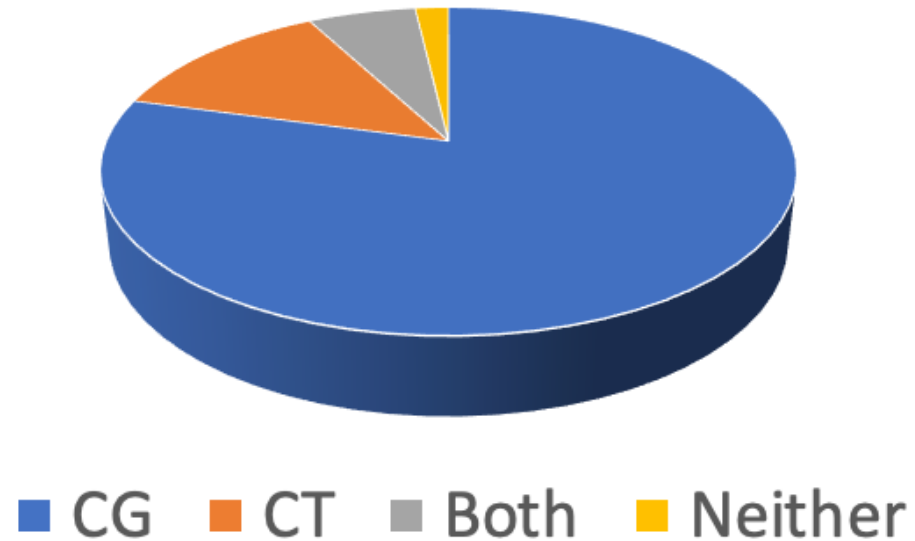
Submissions by Area



	Submissions	Accepted	Ratio
CG	197	65	33.0%
CT	54	21	38.9%
Both	16	8	50.0%
Neither	4	1	25.0%
Total	271	95	35.1%

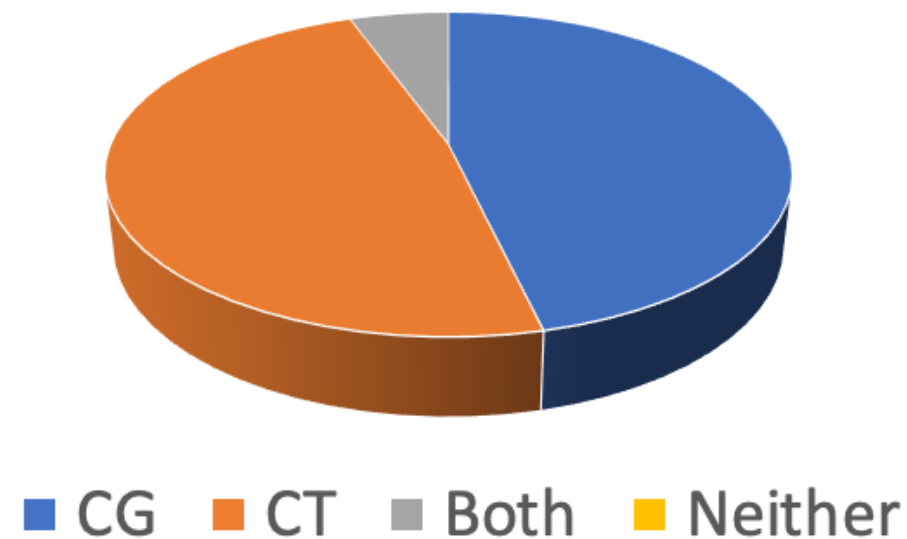
Areas and Tracks

Track T: Submissions by Area



	Submissions	Accepted	Ratio
CG	172	59	34.3%
CT	28	9	32.1%
Both	13	7	53.8%
Neither	4	1	25.0%
Total	217	76	35.0%

Track P+: Submissions by Area

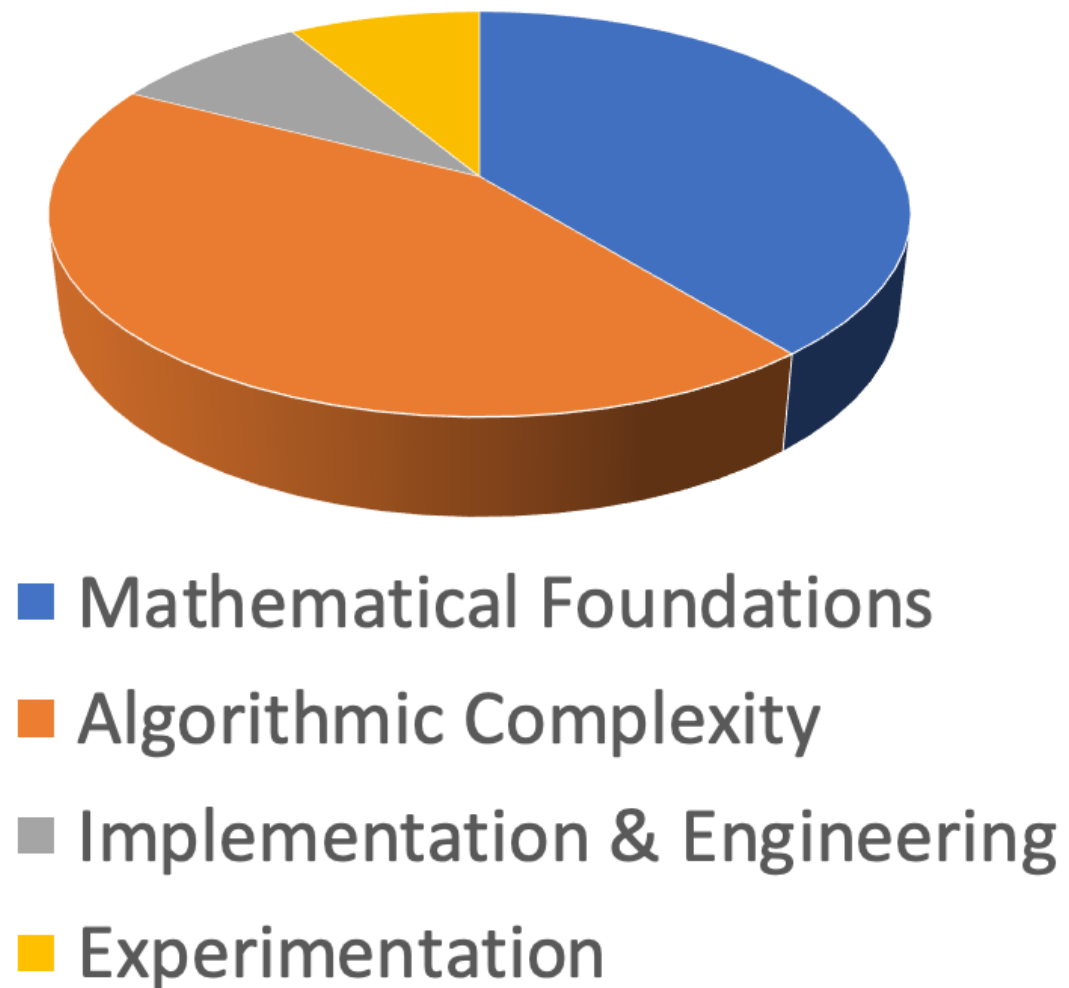


	Submissions	Accepted	Ratio
CG	25	6	24.0%
CT	26	12	46.2%
Both	3	1	33.3%
Neither	0	0	0.0%
Total	54	19	35.2%

Interdisciplinary Work

	#Submissions	#Accepted	Ratio
Total	32	9	28.1%
T	13	4	30.8%
P+	19	5	26.3%

Paper Types



	#Subs	#Acc	Ratio
Mathematical Foundations	155	53	34.2%
Algorithmic Complexity	172	57	33.1%
Implementation & Engineering	35	16	45.7%
Experimentation	34	15	44.1%

On average 1.46 paper types per paper (min: 1, max: 4).

Topics

Topic	Total	Accept	Ratio
Discrete and combinatorial geometry	111	37	33%
Approximation algorithms	71	25	35%
Computational complexity and hardness	61	19	31%
Topological data analysis	57	20	35%
Data structures	38	18	47%
Persistent topology	38	10	26%
Geometric intersection graphs	32	12	38%
Polygons	31	9	29%
High-dimensional geometry	30	14	47%
Clustering and partitioning	29	9	31%
Parameterized algorithms and complexity	29	10	34%
Optimization	28	7	25%
Geometric configurations	26	6	23%

Topic	Total	Accept	Ratio
Algorithm engineering	25	10	40%
Graph drawing	25	5	20%
Implementation and software	24	13	54%
Randomized algorithms	21	7	33%
Geometric data analysis	20	7	35%
Experimental studies	19	9	47%
Practical applications	19	3	16%
Counting and enumeration	18	3	17%
Topological graph theory	17	6	35%
Arrangements	15	7	47%
Learning	14	6	43%
Algebraic and numerical computation	13	1	8%
Topological combinatorics	12	6	50%

Plea to the Community

Please: Take care and **maintain your data** on hotcrp.

Cols and subreviewer handling has to be supported by the system. This works as well as the data we provide. And it is a bit of a **mess** right now...

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Thus, please:

- Use **exactly one account**/email address!
(If you use different accounts, the system assumes these are different people.)
- Be selective with your conflicts! Put **hard Cols** only!
(If for a four author paper each author list 15 Cols, nobody in the area remains eligible.)
- But please do include those hard Cols!

Thanks to PC:

Track P:

Chao Chen
Otfried Cheong
Andreas Fabri
Marc Glisse
John Hershberger
Michael Hoffmann
Phillip Keldenich
Dmitriy Morozov
Sabine Storandt
Hubert Wagner
Jules Wulms

Track T:

Eyal Ackerman
Hee-Kap Ahn
Pankaj Agarwal
Martin Balko
Huck Bennett
Sarita de Berg
Therese Biedl
Kevin Buchin
Sergio Cabello
Jean Cardinal
Mathieu Carrière
Éric Colin de Verdière
Anne Driemel
Herbert Edelsbrunner
Arnold Filtser
Xavier Goaoc
Kristóf Huszár
Woojin Kim
Sándor Kisfaludi-Bak

Track T (cont):

Hung Le
Amir Nayyeri
Yakov Nekrich
Sharath Raghvendra
Paweł Rzążewski
Frank Staals
Primož Škraba
Shin-ichi Tanigawa
Katharine Turner
Carola Wenk
Sampson Wong
Meirav Zehavi

Proceedings Chair

Philipp Kindermann

Four Outstanding Reviewer Awards:

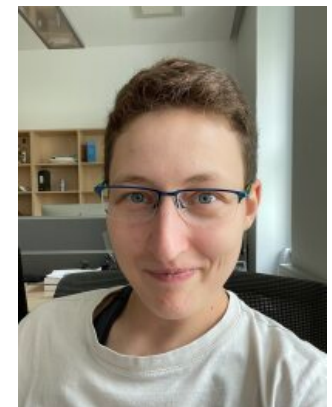
Nadav Dym



Ondřej Draganov



Elizaveta Streltsova



Anonymous