

Association for Constraint Programming

Annual General Meeting 2022 CP2022

The Plan

Upcoming Events	15 min
ACP Executive & Elections	5 min
ACP Awards	5 min
ACP Finances	5 min
Constraints Journal Update	5 min
Things the EC is Working On	5 min
Open Discussion	10-20 min

Thanks to CP2022 Organizers!

- Conference Chairs
 - Roie Zivan & Ferdinando Fioretto
- Program Chair
 - Christine Solnon
- Local organization committee, chairs, and program committee



Upcoming Events

- Summer School 2023
- CPAIOR2023
- CP2023
- CP2024 [breaking news!]

ACP Summer School

Early July 2023

In Leuven, Belgium
By Tias Guns and team

KU LEUVEN

Tentative topics:

- Explanations in constraint solving
- Constraint and preference learning
- Decision-focussed learning



CPAIOR2023

- Not yet finalized ...
 - CPAIOR folks are working on it

CP2023 in Toronto!

- Conference Chair: Andre Cire
- Program Chair: Roland Yap
- Location: University of Toronto

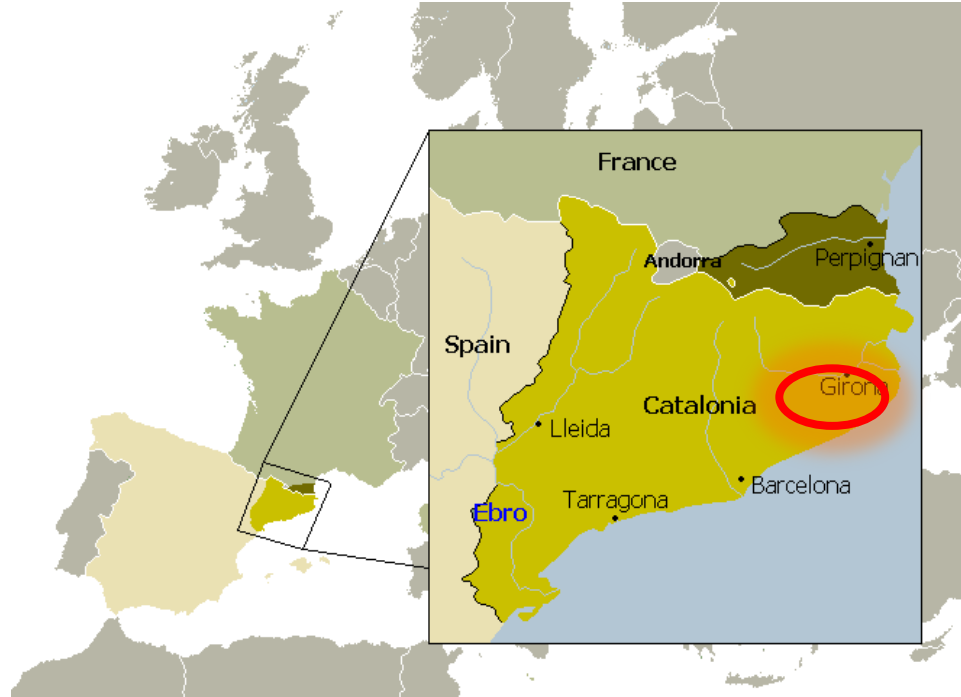
- Dates:
 - Submission: Mid March
 - Notification: Late May
 - Conf: August 27-31, 2023



CP 2024 ...

Joan Espasa Arxer

CP in Girona, Catalonia September 2-6, 2024



CP in Girona, Catalonia

September 2-6, 2024



CONFERENCE CHAIRS

Miquel Bofill, University of Girona

Mateu Villaret, University of Girona

LOCATION

Girona is in the northeast of Catalonia, about 100 kilometers of Barcelona, near the Costa Brava and the Pyrenees.

The Old Quarter of the city is one of the most important medieval monumental ensembles of Catalonia.

CP in Girona, Catalonia

September 2-6, 2024



CONFERENCE VENUE

The University of Girona (UdG) has a nice campus in the old town, at walking distance from hotels and restaurants.

The conference will take place at the Sant Domènec Church, which is part of the historic building of the UdG, and adjoining classrooms.



CP in Girona, Catalonia September 2-6, 2024

We will have Coffee Breaks and Finger Lunches at the cloister next to the rooms



Hope to see you in Girona!

CP 2025 ...

[YOUR LOCATION HERE]

talk to Emmanuel Hebrard

Important Dates

Summer School 2023
Leuven, Belgium

early July, 2023

CPAIOR2023
Location?

Paper Submission
???

Notification
???

Conference
???

CP2023
Toronto, Canada

Paper Submission
Mid March

Notification
Late May

Conference
Aug 27-31, 2023

CP2024
Girona, Spain

Sept 2-6, 2024

Who is the ACP Executive?



Chris Beck
President



David Bergman
Secretary



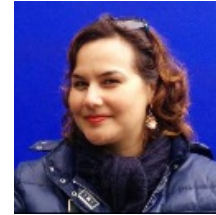
Sophie Demassey
Treasurer



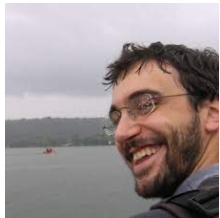
Tias Guns
Webmaster



Emmanuel Hebrard
Conference Liaison



Zeynep Kiziltan
Diversity, Equity, &
Inclusion Delegate



Michele Lombardi



Maria Garcia de la Banda
Past President

Terms Ending Dec 2022



Sophie Demassey



Emmanuel Hebrard



Michele Lombardi

ACP EC Elections – on now!



Ferdinando Fioretto



Gilles Pesant



Nadjib Lazaar



Hélène Verhaege



Ines Lynce

All ACP members should have received voting instructions by email on July 19 (from helios voting)

Voting is open until Aug 26.

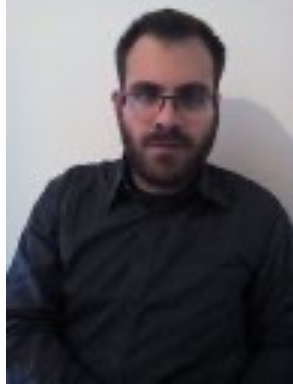
ACP Awards

ACP Doctoral Research Award

- Committee

- Simon de Givry (c), Jimmy Lee, John Hooker

- Honorable Mention



Dimosthenis Tsouros

Efficient Methods for Constraint Acquisition

University of Western Macedonia

Supervisors: Kostas Stergiou

ACP Doctoral Research Award

- Committee

- Simon de Givry (c), Jimmy Lee, John Hooker

- Winner

Hélène Verhaege

The Extensional Constraint

Catholic University of Louvain

Supervisors: Pierre Schaus, Christophe Lecoutre



The work improved state-of-the-art propagation techniques for extensional constraints, a challenging topic studied during more than thirty years by the CP community.

ACP Early Career Researcher Award

- Committee

- John Hooker (c), Claude-Guy Quimper, Guido Tack

- Winner



Kuldeep Meel

Kuldeep Meel has made fundamental contributions to the problem of counting and sampling solutions of constraints by combining deep theoretical insights with the development of scalable systems. His work has had impact in satisfiability, machine learning, formal verification, and knowledge representation, and it has already seen practical application in such areas as neural network verification, power transmission network reliability, and forest fire prediction.

ACP Distinguished Service Award

- **Committee**

- Thomas Schiex (c), Christine Solnon, Chris Beck, David Bergman, Rina Dechter

- **Winner**



Helmut Simonis

Insight Centre for Data Analytics

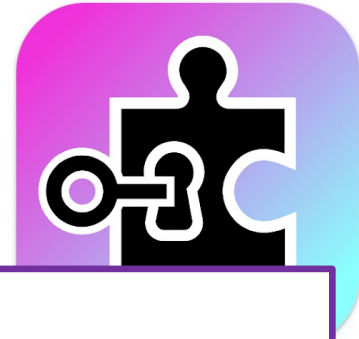
For his tireless work to expand the reach of constraint programming and to constantly inject his positive energy and unbiased curiosity in the CP research community. From his work as a past president of the ACP and past program chair of CP, to his continued contributions in education, outreach and industry application of CP, Helmut's contributions to constraint programming are numerous and impactful. He even doubles as a photographer at our annual meeting.

ACP CP App Competition

- **Organizer**
 - Eugene Freuder
- **Committee**
 - Zeynep Kiziltan, Helmut Simonis, Mark Wallace
- **Entrants**
 - 4 submission: 2 disqualified due to not being on Google Play

Logic Games Solver

Mathieu Vavrille
Université de Nantes



Logic Games Solver

10+

E

Downloads

Everyone

About this app →

Tired of being stuck on a logic game, not able to find the last hint you need to finally finish it? This app is made for you. By employing a form of Artificial Intelligence called Constraint Programming, this app solves even the hardest logic games. No more unfinished Sudokus, Kakuros and more, you can now find the last hint you needed.



3	5	1	8	2	6	7	9	4
6	8	7	9	3	4	5	1	2
4	9	2	1	7	5	8	6	3
8	6	9	2	4	7	3	5	1
2	1	5	6	8	3	4	7	9
7	4	3	5	1	9	2	8	6
5	2	8	4	9	1	6	3	7
9	3	4	7	6	8	1	2	5
1	7	6	3	5	2	9	4	8

Auto Solve

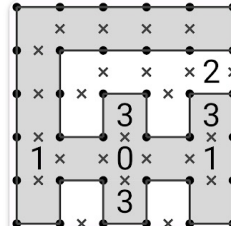
Undo Redo Back

5	25	10	21				
3	2	1	4	3	1	9	
8	3	5	12	6	1	2	3
4	24	7	5	2	4	6	
16	3	2	1	4	6	3	
7	1	4	2	x	5	2	
10	6	4	4	3	1		

Increase Decrease

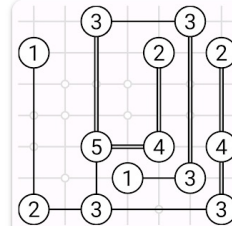
Set outline

Undo Redo Back



+Line -Line +Col -Col

Undo Redo Back



Increase Decrease

Undo Redo Back

Developer contact ^

Email
logic.games.solver@gmail.com

Privacy policy
https://github.com/MathieuVavrille/LogicGamesSolver/blob/master/privacy_policy.md

ConGuess

Hofi Apps

Andreas Hofbauer & Alexander Felfernig
Graz University of Technology (TU Graz)



5+

E

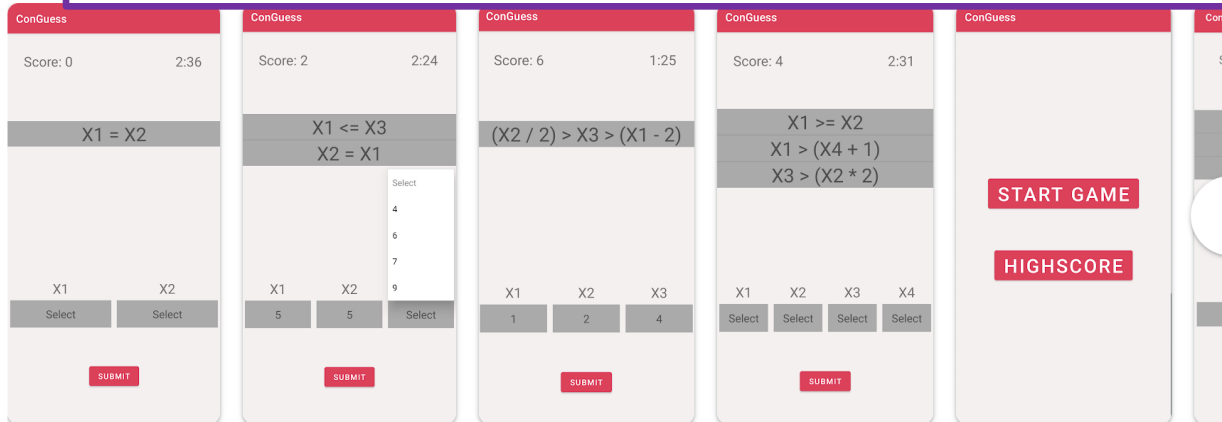
Downloads

Everyone

About this game →

In ConGuess you have to solve as many Constraint Satisfaction Problems as possible. You have to assign a valid value to each of the shown variables s.t. all of the constraints are satisfied.

The app employs a form of Artificial Intelligence called Constraint Programming for generating problems and validating the solution.



Developer contact ^

✉ Email
hofi.apps@gmail.com

🛡 Privacy policy
<https://pages.flycricet.io/conguess/privacy.html>

ACP CP App Competition

- Awards Committee decided not to award a winner
- Both entries are awarded Honorable Mentions

The Plan

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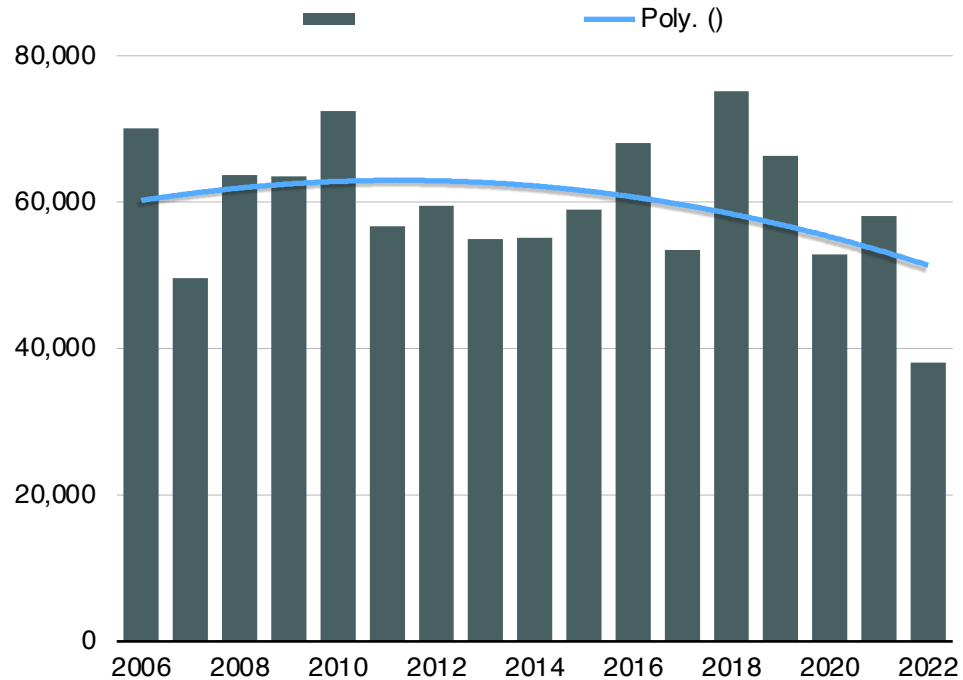
ACP Finances

Treasurer's report

Last year	(CP 2021 Montpellier)	€58,099
In		
	Profit CP 2021	€4,702
	Interest 2020	€271
Out		
	Autumn School 2019 Sponsorship	€122
	CP 2021 LIPICS Proceedings	€3,600
	Summer School 2022 Sponsorship	€7,900
	Doctoral Program 2022 Sponsorship	€2,300
	CP 2023 Sponsorship	€10,700
	Web Provider	€300
	Banking Fees	€39
End Balance	(CP 2022 Haifa)	€38,111
	CP 2019 Balance	€19,800
	Awards	€5,000
Expected		€53,000

Treasurer's report

	€70,093
	€49,626
	€63,742
	€63,530
	€72,489
	€56,747
	€59,528
	€54,949
	€55,102
	€58,940
	€68,031
	€53,511
	€75,169
	€66,310
	€52,826
	€58,099
	€38,111



We take donations: <http://a4cp.org/sponsorships-donations>

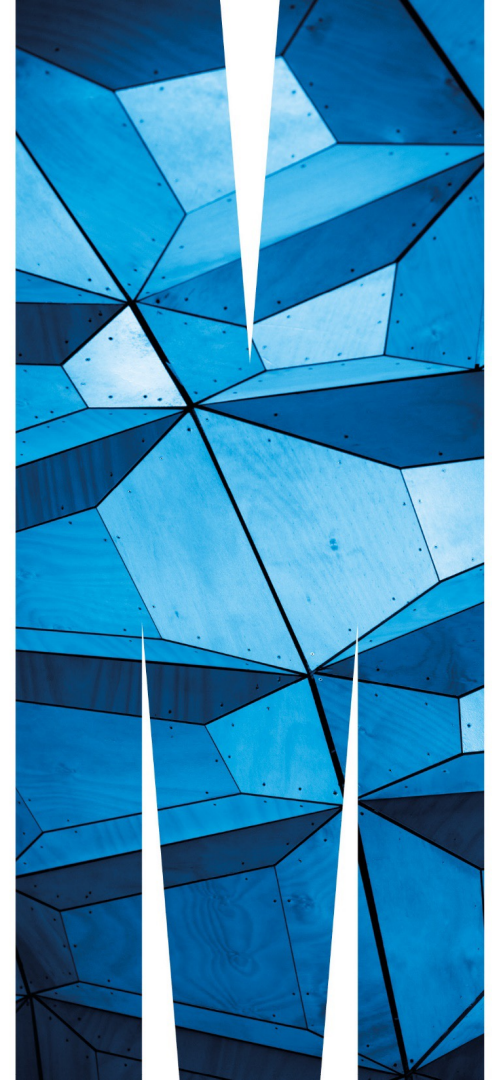
Finances

- With CP2021 profit: €53K
 - Goal of ~ €50K in bank to keep non-profit status
- But we have certainly been spending money
 - This is the rainy day, we've been saving for
 - Hopefully situation closer to normal in 2023

Constraints Journal

Report from EiC Mark Wallace

3rd August 2022



Status

- Two issues so far this year
 - April: 6 articles, one letter
 - July: 5 articles, an application paper and a letter
- Springer
 - (2nd) new publishing editor Teena Bedi
 - New “improved” editorial management system – SNAPP due shortly
- Submissions (2022)
 - 28 in 2022 so far
 - 3 resubmissions under review
 - 1 accept
 - 15 reject
 - 9 under review

Constraint Statistics (2021)

- Impact factor (2021): 0.583
- Five year impact factor (2021): 1.591
- Submission to first decision (median): 30 days
- Downloads (2021): 21,216

Soliciting Papers

- Requesting conference authors for Constraints submissions
 - CPAIOR 2021, CP 2021, CPAIOR 2022
 - 2 extensions of CPAIOR 2021 papers in April issue
 - 1 extensions of CP 2021 papers in April issue
 - 3 extensions of CP 2021 papers in July issue
- Proposal
 - All papers accepted for Constraints should be eligible for presentation at CP

Plans

- Papers surveying links between CP and MIP, Metaheuristics, Machine Learning
 - After initial discussions with author groups, nothing submitted
- **Special Issues**
 - Energy - Explored with Los Alamos National Lab and Monash
 - Energy – too much MIP
- **Supporting videos**
 - Springer concerned about:
 - making this mandatory “What if the authors have paucity of time and concerns in creating video”
 - “following up with the authors to share their video will be overwhelming for the publishing team of Springer”

Things the EC is Working On

What Do We Do?

- Finding CP organizers and chairs
- Find summer schools organizers
- Finding people to run in elections
- Overseeing finances
- Sponsoring events (e.g., competitions)
- Colocation efforts

What Do We Do?

- Setting up awards committees
- Quarterly reports
- Equity, Diversity, & Inclusion
- Website
- Coordination with *Constraints* journal

Diversity, Equity, Inclusion

- DEI Chair, CP2022: Andrea Rendl
- DEI Delegate on ACP EC: Zeynep Kiziltan
- First CP DEI Friday morning
 - Panel: Noa Agmon, Luis Quesada, Helene Verhaege
 - Co-chairs: Maria Garcia de la Banda, Chris Beck



Finances

- Goal: ~ €50K for emergencies and float
- Challenges
 - Expensive (in-person) conferences reduce participation/accessibility
 - Conferences getting more expensive
 - ACP money has to come from somewhere (i.e., conference fees)



Discussion

Seed Topics

- Any of the things that the ACP EC does?
- Should we try to co-locate with other small AI confs?
- Online conferences
 - More accessible?
 - Always remote access? Sometimes only online or in-person?
- Ideas for growing the community?
- Conference vs. journal publications?
 - What is important to us?
- Other things you want to talk about