Welcome to CVPR 2023







General Chairs



Michael Brown York Univ. / Samsung

Program Chairs



Fei-Fei Li Stanford Univ.



Greg Mori Borealis AI / SFU



Yoichi Sato Univ. of Tokyo





David Hafner Apple



Andreas Geiger Univ. of Tübingen



Ross Girshick Meta



Judy Hoffman Georgia Tech



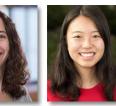
Vladlen Koltun Apple



Svetlana Lazebnik UIUC

Workshop Chairs





Serena Yeung

Yu Wu

Olga Russakovskv

Diversity, Equity & Inclusion Chairs





Fatma Güney

Kate Saenko

Thibaut Durand



Siyu Tang



Danna Gurari

Demo Chairs



Jon Barron Gim Hee Lee



Bryan Morse

Finance Chair



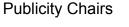
Catherine Qi Zhao

'YZ' Yezhou Yang

Publication Chair



Eric Mortensen





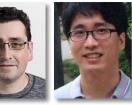


Abby Stylianou Kosta Derpanis

Boqing Gong

Local Chairs

Leon Sigal

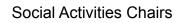


Kwang Moo Yi



Producer

Nicole Finn



Doctoral Consortium Chairs





Giovanni Maria Angel Chang Farinella





Tutorial Chairs



Jianxin Wu

Social Chair

Yale Song

Ombuds

Any member of the community may complain to any ombud on matters related to legitimacy, fairness or inclusivity of CVPR or PAMI TC.

Ombuds can be reached at cvpr2023-ombuds@googlegroups.com



David Forsyth UIUC



Linda Shapiro Univ. Washington

Senior PAMI-TC Ombuds





Kyoung Mu Lee Seoul National Univ.

Xiaodan Liang Sun Yat-sen Univ.

CVPR 2023 Ombuds

Sponsors and Expo

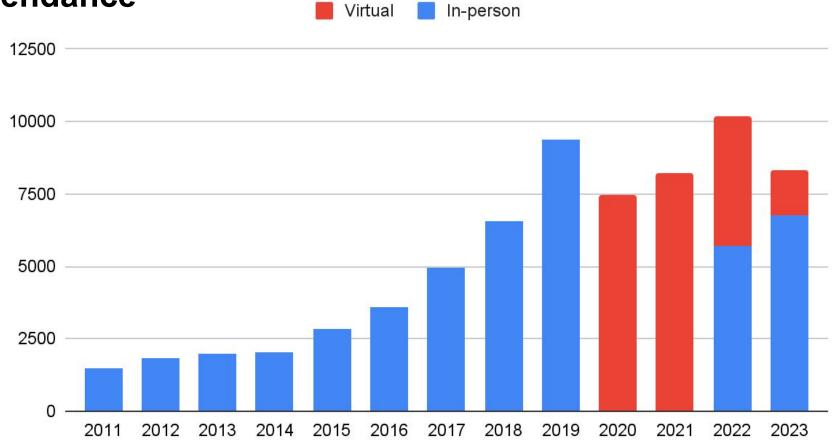
Thank you for your support!

CVPR 2023 Expo

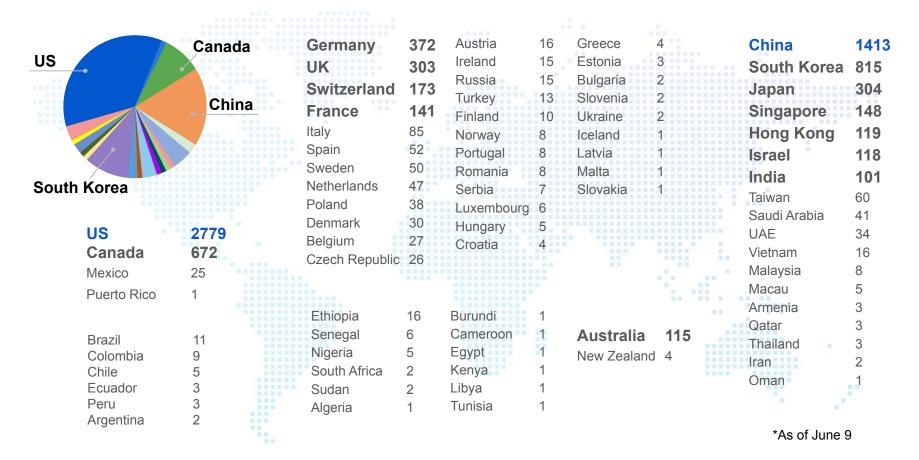
- 116 leading organizations
- 21,200 sqft.
- 15 countries represented
- Organized by HEI



Attendance



CVPR 2023: ~8337 attendees from 75 countries/regions



Visas

- CVPR 2023 supported prospective attendees
 - **Event registration:** CVPR 2023 registered with IRCC in September 2022
 - **Visa letters:** Generated visa letters for registered attendees using our IRCC event code
 - **Engagement:** Numerous local and national government representatives
 - **Status:** Gathered attendee status via attendee surveys, communicated results with IRCC directly and through representatives
 - Direct Support: Numerous individual cases
 - Special thanks to Sarah Kutulakos (Canada China Business Council) and Elissa Strome (CIFAR) for their support

DEI Initiatives

- Travel support for attendees
 - 229 travel scholarships Ο
 - 239 registration scholarships Ο
 - Support to conference attendees and affinity groups (LatinX in AI, Black in AI) Ο
 - Thank you to our sponsors for their financial support! Ο
- High school student visits
 - 250+ high school students Ο
 - Invent the Future, an AI4ALL-supported outreach program Ο
 - Expo tour, AI research talk, socializing Ο
- Website accessibility
 - Audit of CVPR website 0
 - Improvements to support future CVPR, and related ML conference websites Ο

Diversity, Equity & Inclusion Chairs Accessibility Chair









Kate Saenko Fatma Günev

Thibaut Durand

Social program

Socialization a key part of the in-person conference experience

- Community-driven socials (June 20 7-9pm)
 - How to Negotiate Industry Offers in AI
 - CV Entrepreneurship Founders, Freelancers & Friends
 - Diversity and Inclusion
 - Black in Al
 - AMA with Senior Faculty and Industry Leaders

All attendees were invited to register for these events

• Musical performance at conference reception (June 21 7-9pm)



Social Chair



Doctoral Consortium Chairs

Student Activities

- Doctoral Consortium
 - Opportunity for recent grads/close-to-complete PhD students to interact with experienced researchers
 - Two-to-one matching of students to mentors
 - Discuss career plans and research
 - o 55 students





Catherine Qi Zhao 'YZ' Yezhou Yang

Social Activities Chairs





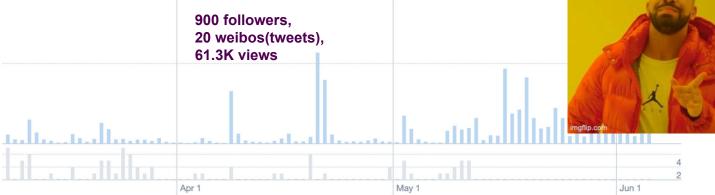
Giovanni Maria Farinella Angel Chang

- Speed Mentoring
 - Open call was issued to all students
 - Informal small-group discussions with senior faculty and industry leaders
 - 300 students per day; 130 senior faculty mentors

Social Media

- Communication across social media platforms
- Created an official CVF Weibo account
 - Support our broad, international community

Your Tweets earned 830.9K impressions over this 90 day period



Publicity Chairs

Abby Stylianou Kosta Derpanis

Boqing Gong



Workshops and Tutorials

- 100 workshops
 - Workshop tracks
 - Interdisciplinary speakers
- 33 tutorials

Workshop Chairs





Yu Wu

Serena Yeung

Tutorial Chairs



Siyu Tang

Jianxin Wu

Olga

Russakovsky





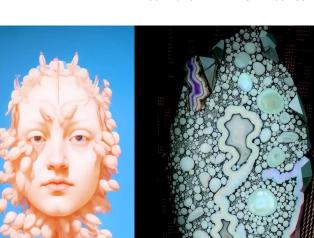
Demos and Art Gallery

• Demos

- 60 demos accepted
- 124 submissions
- Art gallery (new this year)
 - 120 videos of AI art pieces

Location

- West Exhibit Hall
- 10am-4pm every day





Jon Barron

Gim Hee Lee

CVPR 2023 Conference T-Shirt Artist

Kari Morgan (K'alaajex)

Born in Prince Rupert, British Columbia; her background is Nisga'a from the house of Kw'isk'ayn, European, and Métis. Morgan is a Sculptor, Painter, and Designer, whose clear passion for art and mixed media emerged in her early childhood. While studying under master carvers, Dempsey Bob, Stan Bevan, and Ken McNeil, Morgan received The Freda Diesing School of Northwest Coast Art Advanced Diploma.

Her artwork is known for being both sharp and fluid, and at times beautifully minimalist. Morgan weaves through the delineation of what is known as traditional First Nations art and contemporary, while exploring what these very same labels, imposed by other cultures, mean to society and to herself.

Morgan believes traditional art is more than just the visual language for the people of the Northwest, she also believes it is medicine for the soul. She is honored to be practicing her traditional art and has so much gratitude for all the people who have kept these practices alive, even through all the attempts to remove this knowledge from history. Morgan enjoys learning and challenging herself, and while discovering more about her traditions she is also discovering what it means to be a Native woman practicing art in the modern world. Morgan aims to display the strengths of her culture and people through her art and entice positive narrative change.

Morgan has displayed artwork in various shows at The Museum of Northern British Columbia, Lester Center of the Arts, Terrace Art Gallery, Smithers Art Gallery, The Kitimat Museum, The Spirit Wrestler Gallery in Vancouver, and the Stonington Gallery in Seattle where she has also held a Solo Exhibition *"Post-Apocalyptic"* in April 2022. Morgan has instructed multiple artist talks and art practice workshops throughout the Northwest in various schools and locations.

"I hope to inspire future generations to find their potential, and get to know their heritage and traditions. I aim to educate people and change people's perspectives."



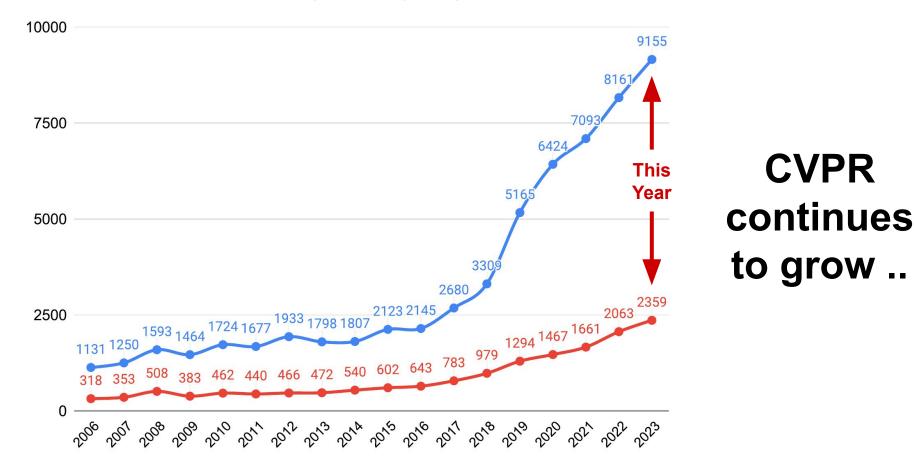
Program







Submitted Papers
 Accepted Papers



Review Process



Conference on Computer Vision and Pattern Recognition 2023

CVPR 2023

Vancouver Jun 18 2023 https://cvpr.thecvf.com/
 cvpr-2023-info@googlegroups.com

For Authors

Please see our call for papers and read the author and ethics guidelines, as well as the suggested practices for authors.

For Reviewers

Please read the reviewer guidelines.

Paper Registration Deadline: Nov 04 2022 11:59PM PT, Paper Submission Deadline: Nov 11 2022 11:59PM PT, Supplementary Material Deadline: Nov 18 2022 11:59PM PT

- 7069 Reviewers
 Writing reviews
- 404 Area Chairs (ACs) Discussion with triplet/reviewers
- 30 Senior Area Chairs (SACs) Coordination of triplets
- 5 Program Chairs (PCs) Writing trillions of emails

Many thanks to all reviewers, ACs, SACs, technical chair David Hafner, publication chair Eric Mortensen and the entire OpenReview team!

What is the core value of a conference?







	TUESDAY	WEDNESDAY	THURSDAY	
8:00 AM	Breakfast	Breakfast	Breakfast	
8:30 AM	Opening	Awards	DiedkidSt	
9:00 AM	Keynote Rodney Brooks	Keynote Yejin Choi	Keynote Larry Zitnick	
10:00 AM	Break	Break	Break	
10:30 AM	Posters	Posters	Posters	
12:30 PM	Lunch	Lunch	Lunch	
2:00 PM	Panel History & Future of AI & CV	Panel Vision, Language & Creativity	Panel Scientific Discovery & Env.	
3:00 PM	Award Candidates	PAMI-TC Meeting	Award Candidates	
4:00 PM	Break	Break	Break	
4:30 PM	Posters	Posters	Posters	
6:30 PM	Socials	Reception		

No Parallel Oral Tracks Focus on Interaction Virtual **Platform**

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4:00 PM	Break	Break	Break
4:30 PM	Posters	Posters	Posters
6:30 PM	Socials	Reception	

Focus on Posters & Interaction



Exhibit Hall ABC

	TUESDAY	WEDNESDAY	THURSDAY	
8:30 AM	Opening	Awards	Breaklast	
9:00 AM	Keynote Rodney Brooks	Keynote Yejin Choi	Keynote Larry Zitnick	







Rodney Brooks (MIT)

Revisiting Old Ideas With Modern Hardware

Yejin Choi (UoW)

An Al Odyssey: the Dark Matter of Intelligence Larry Zitnick (Meta)

Modeling Atoms to Address Our Climate Crisis

Plenary Keynotes





WEDNESDAY

THURSDAY

History & Future of AI & CV





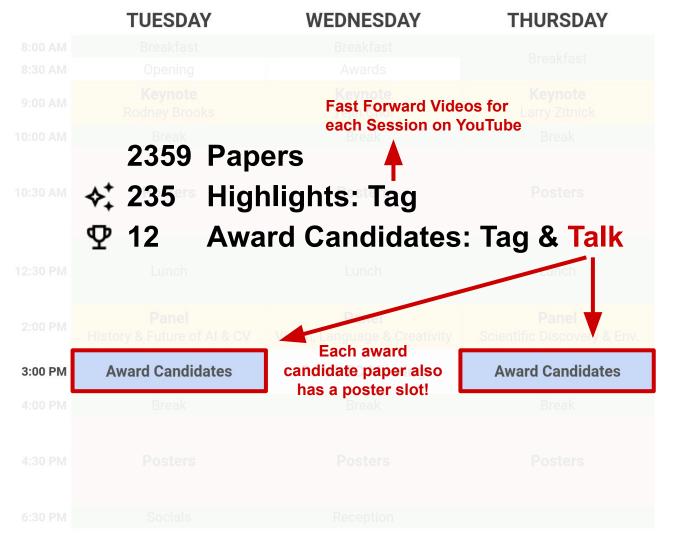
Vision, Language & Creativity Sci. Discovery & Environment



2:00 PMPanel
History & Future of AI & CVPanel
Vision, Language & CreativityPanel
Scientific Discovery & Env.3:00 PMAward CandidatesPAMI-TC MeetingAward Candidates4:00 PMBreakBreakBreakBreak4:30 PMPostersPostersPosters

Plenary Panels





Highlights and Award Candidates



	TUESDAY	WEDNESDAY	THURSDAY
		Breakfast	
8:30 AM		Awards	
		Keynote Yejin Choi	

Awards



2 Best Papers1 Honorable Mention1 Best Student Paper1 Student Hon. Mention

Award Committee: Kristen Grauman, Dima Damen, Gang Hua, Ian Reid, Ko Nishino, Laurens van der Maaten, Tinne Tuytelaars. Thank you!

CVF/PAMI-TC Awards

	TUESDAY	WEDNESDAY	THURSDAY
		Panel Vision, Language & Creativity	
3:00 PM		PAMI-TC Meeting	
		Break	

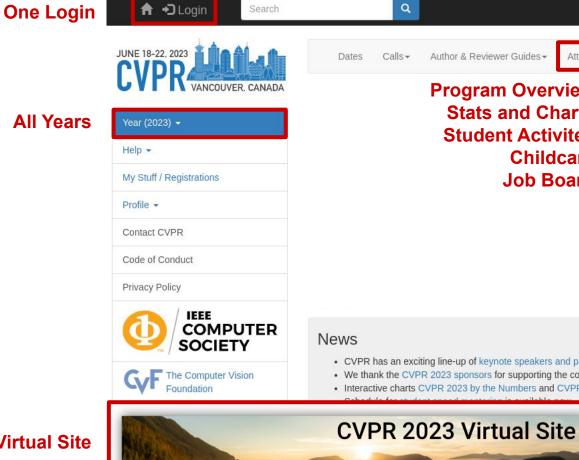
PAMI-TC Meeting





Lee Campbell Eventhosts / NeurIPS team

Virtual Site



Program Overview Stats and Charts Student Activites Childcare **Job Board**

Attend

- · CVPR has an exciting line-up of keynote speakers and panel
- · We thank the CVPR 2023 sponsors for supporting the confer
- Interactive charts CVPR 2023 by the Numbers and CVPR 20



Home Schedule Workshops Tutorials Keynotes & Panels Awards Papers Organizers



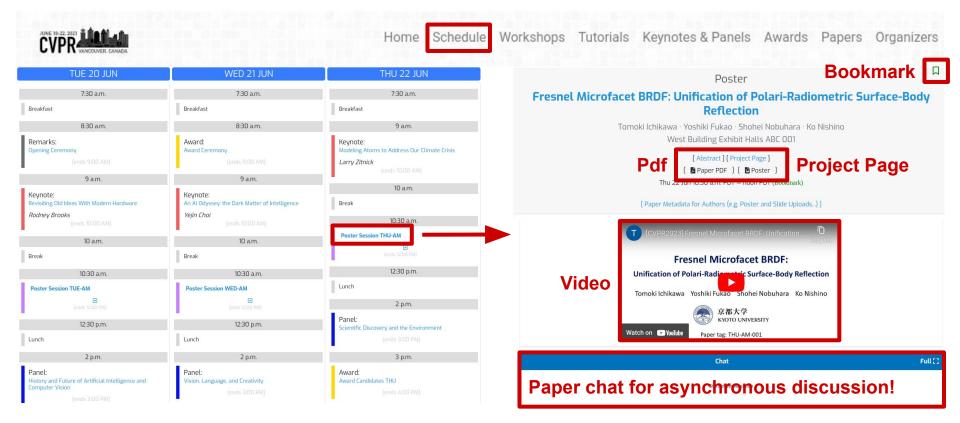


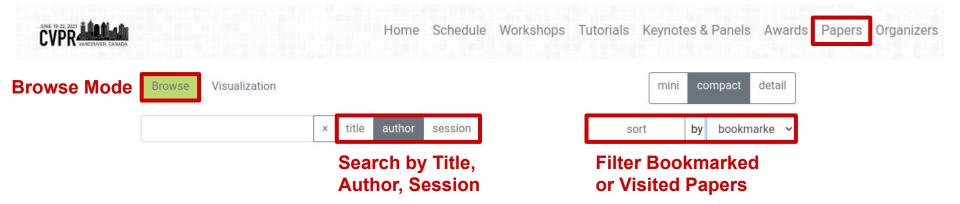
Home Schedule Workshops Tutorials Keynotes & Panels Awards Papers Organizers

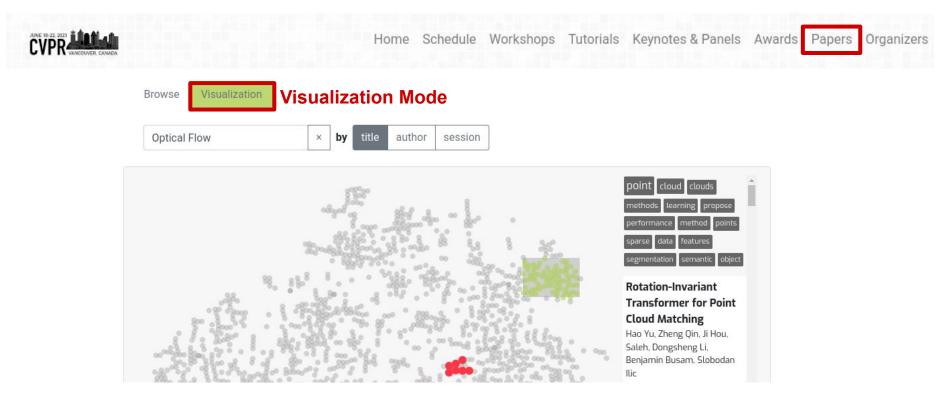
Live Stream All Plenary Sessions

Slido Questions from Audience



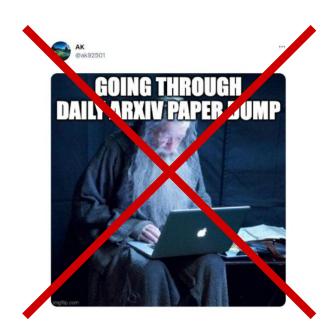






Personal Program

Find the Posters you like!



		Day 1 Tuesday 2023-06-20	^
Tuesday 07:30 - 09:00	Break	Breakfast	
Tuesday 08:30 - 09:00	Remarks	Opening Ceremony	
Tuesday 09:00 - 10:00	Invited Talk	Rodney Brooks	
Tuesday 10:00 - 10:30	Break	Break	
Tuesday 10:30 - 12:00	Session	Poster Session TUE-AM	^
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THE AM 016 70		werse Rendering Haian Jin, Isabella Liu, Peijia Xu, Xiaoshuai Zhang, Songfang Han, Sai	心 ♀ ☆
THE AM ODE	AligNeRF: High-Fidel	lity Neural Radiance Fields via Alignment-Aware Training Yifan Jiang, Peter Hedman, Xu, Jonathan T. Barron, Zhangyang Wang, Tianfan Xue	國占々な
THE ANA ODE	SeaThru-NeRF: Neur	ral Radiance Fields in Scattering Media Deborah Levy, Amit Peleg, Naama Pearl, Dan Kavanak, Simon Korman, Tali Treibitz	心 ♀! ☆
		e-Adjusting Generalizable Neural Radiance Fields Yu Chen, Gim Hee Lee	國占の☆
		t Neural Volumetric Rendering for Human-Object Interactions From Monocular RGBD ng, Kaixin Yao, Zhuo Su, Zhehao Shen, Haimin Luo, Lan Xu	園 心 ♀ ☆
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		i g Shape-Radiance Ambiguity via View-Dependence Normalization Bingfan Zhu, ig Wang, Youyi Zheng, Leonidas Guibas	
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		presentation for Dynamic Scenes Ang Cao, Justin Johnson	(16 タ) ☆
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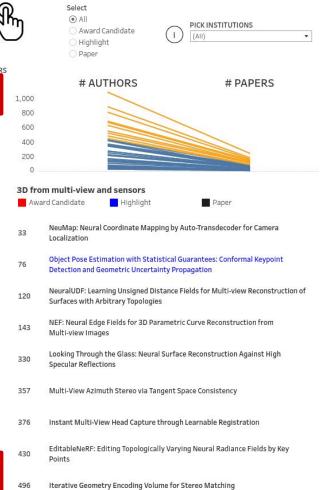


CVPR 2023 by the Numbers

Selecting a category below changes the paper list on the right.

SELECT J Top 10 overall by number of authors

1	3D from multi-view and sensors	1,090 246
2	Image and video synthesis and generation	889 185
3	Humans: Face, body, pose, gesture, movement	813 166
4	Transfer, meta, low-shot, continual, or long-tail learning	688 153
5	Recognition: Categorization, detection, retrieval	673 139
6	Vision, language, and reasoning	631 118
7	Low-level vision	553 126
8	Segmentation, grouping and shape analysis	524 113
9	Deep learning architectures and techniques	485 92
10	Multi-modal learning	450 89
11	3D from single images	431 <mark>91</mark>
12	Medical and biological vision, cell microscopy	420 53
13	Video: Action and event understanding	373 <mark>83</mark>
14	Autonomous driving	359 69
15	Self-supervised or unsupervised representation learning	349 71
16	Datasets and evaluation	344 54
17	Scene analysis and understanding	276 54
18	Adversarial attack and defense	274 61
19	Efficient and scalable vision	252 48
20	Computational imaging	2 <mark>26</mark> 53
21	Video: Low-level analysis, motion, and tracking	2 <mark>15 46</mark>
22	Vision applications and systems	171 35
23	Vision + graphics	15 <mark>5 32</mark>
24	Robotics	14 <mark>1</mark> 23
25	Transparency, fairness, accountability, privacy, ethics in vision	129 30
26	Explainable computer vision	107 24
27	Embodied vision: Active agents, simulation	80 14
28	Document analysis and understanding	72 12
29	Machine learning (other than deep learning)	65 14
30	Physics-based vision and shape-from-X	55 12
31	Biometrics	51 11
32	Others	47 12
22	Optimization methods (other than deen learning)	46 12
34	Photogrammetry and remote sensing	38 8
35	Computer vision theory	33 5
36	Computer vision for social good	25 5





Josh Preston MLC / Georgia Tech

CVPR 2023

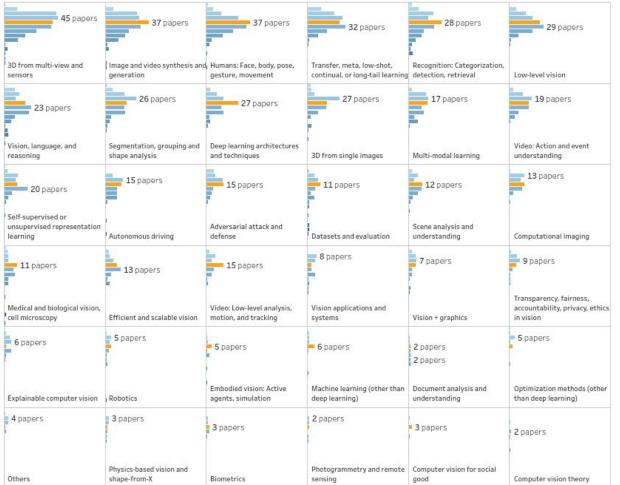
Size of Teams

The median team size is five. There are 471 papers with 5-person teams.



INTERACT Hover on any bar for details; click to change the view

DATA: IEEE/CVF Conference on Computer Vision and Pattern Recognition 2023 DESIGN AND ANALYSIS: Machine Learning Center at Georgia Tech Subject Areas listed in descending order based on number of total papers.

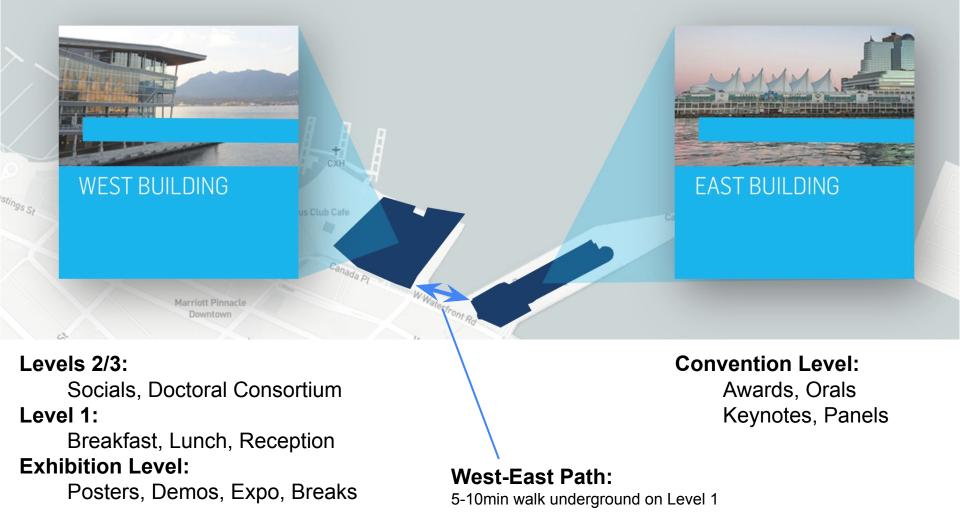


Convention Center









We wish you a wonderful CVPR!







CVPR 2023 in Numbers

- 9155 papers submitted
- 2359 papers accepted (25.8% acceptance rate)
- 235 papers selected as highlight (10% of accepted papers)
 - \circ $\,$ $\,$ Proposed by ACs, curated by SACs and PCs $\,$
 - Special tag in program / at posters
- 12 papers selected as award candidates (0.5% of accepted papers)
 - Proposed by ACs, curated by SACs and PCs
 - Tagged in program / at posters
 - Pool for award papers