



# CVPR 2018

Salt Lake City



# Conference Statistics

**3309 Valid Paper Submissions**

**979 Papers Accepted**

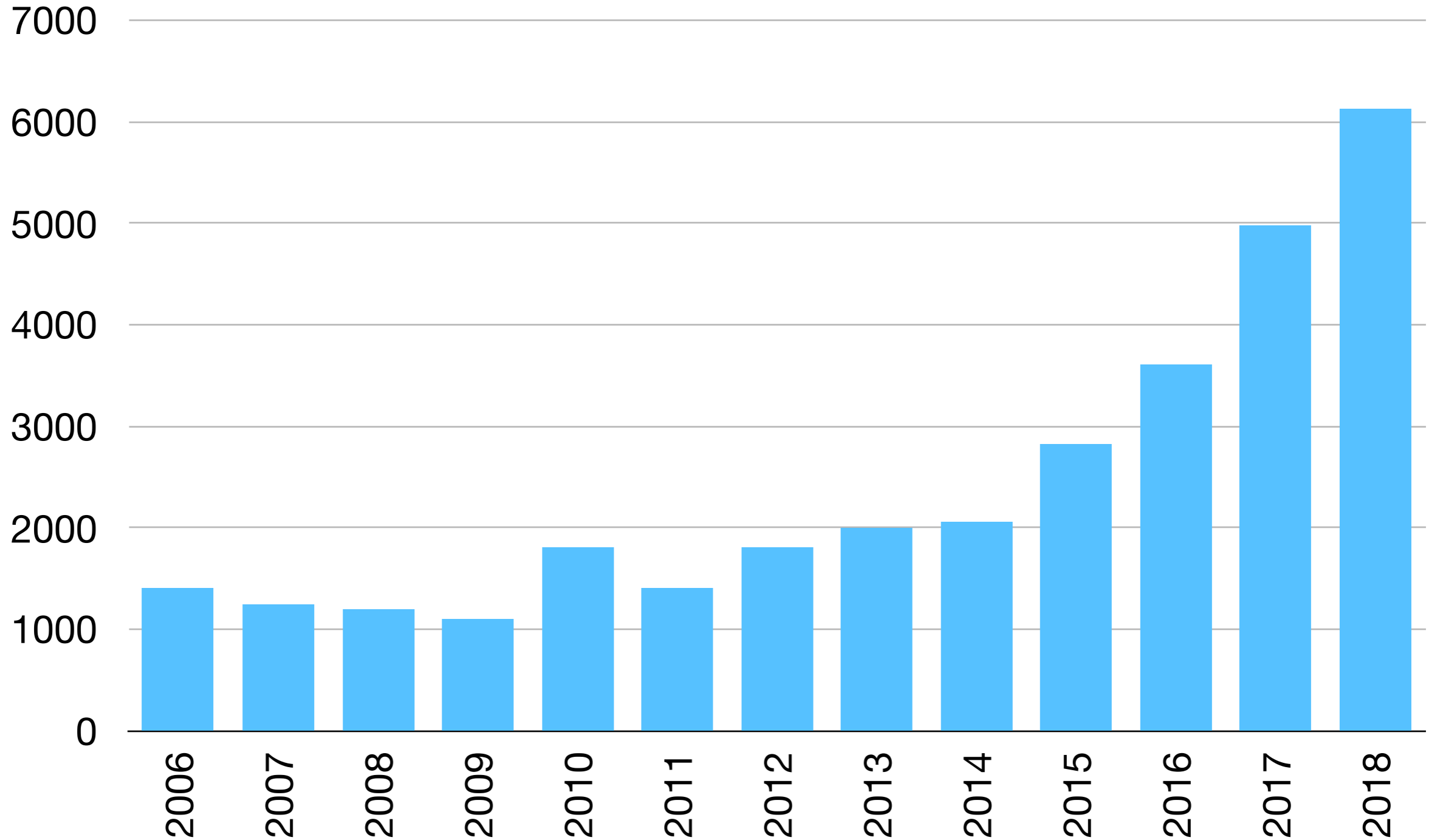
**294 Long and Short Orals**

**149 Sponsors and Exhibitors**

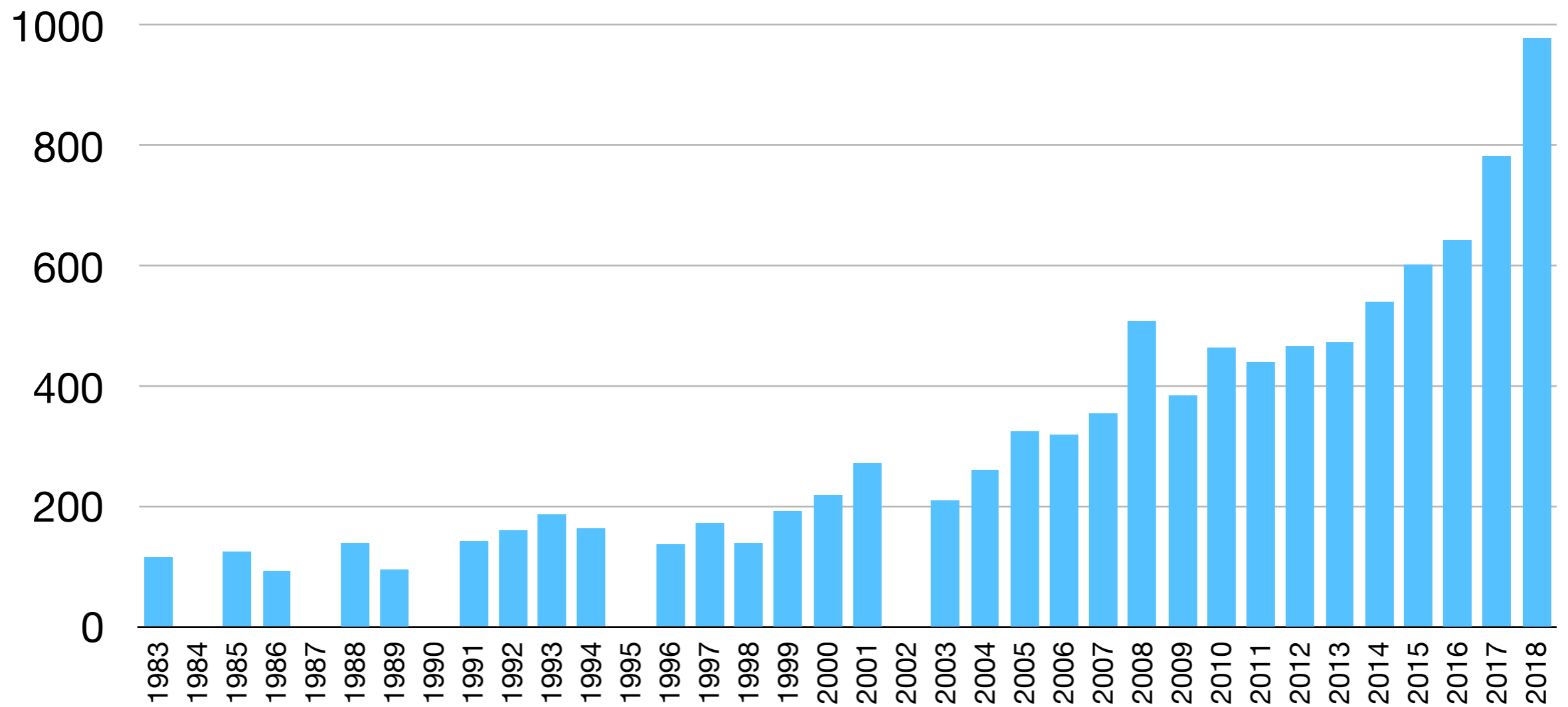
**\$2M+ in Sponsorship/Exhibition**

**6128 Registered Attendees**

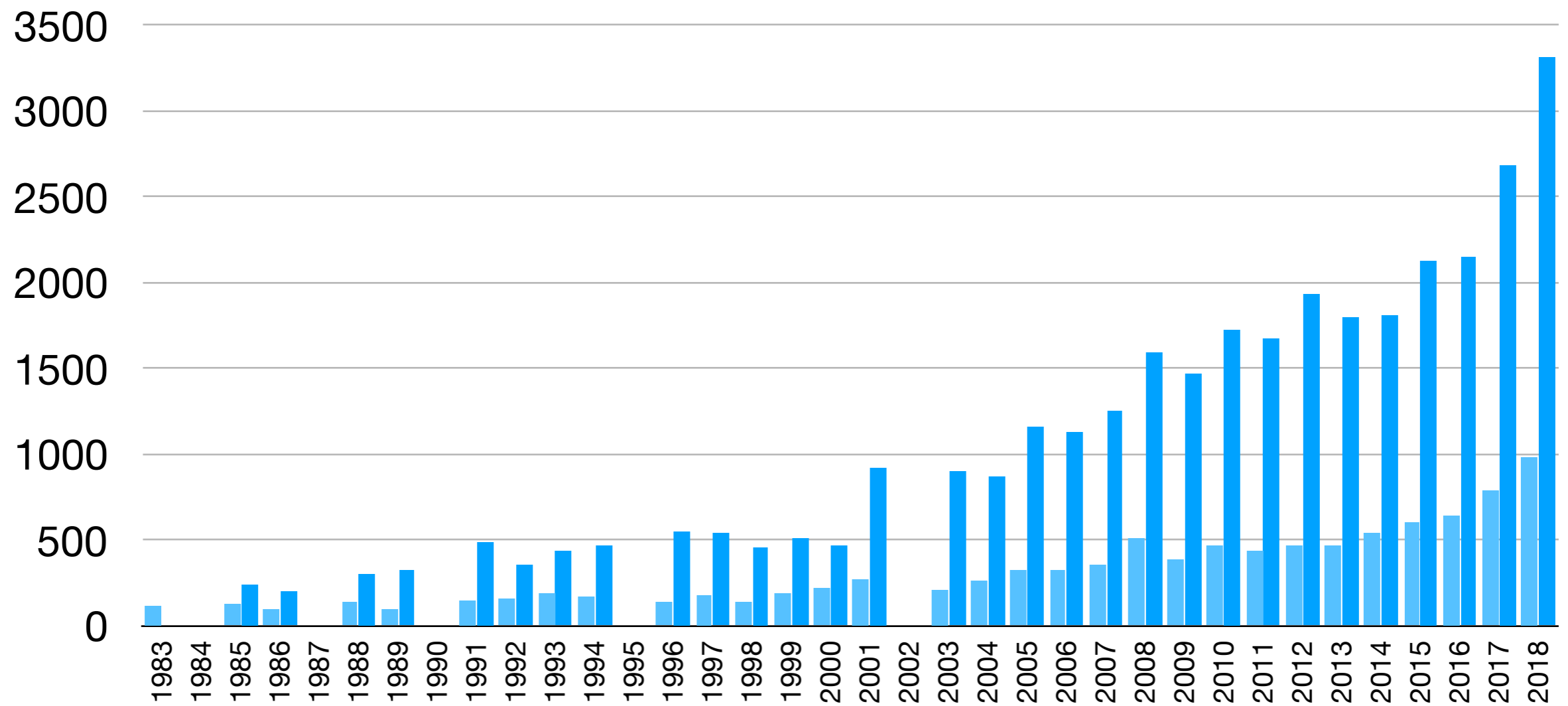
# CVPR Attendance



# CVPR Papers



# CVPR Papers



# Review Process

**3359 Submissions**

**3309 Valid Submissions**

**3 reviews per paper**

**Almost 10K reviews!**

**2385 Engaged Reviewers**

**1715 Reviewers Assigned Papers**

**160 Emergency Reviews**

# **Area Chairs Meeting**

**108 Area Chairs + 4 PCs + 3 GCs  
met in Toronto**

**979 Papers Accepted (29.6%)**

**70 Full Orals**

**224 Spotlight Orals**

**All oral/spotlight/poster decisions  
agreed with AC recommendations**

# Technical Program

**3 days to see 979 papers**

**21 oral sessions (18 last year)**

**8 poster sessions (7 last year)**

**Full orals: 12 min. + 2 for questions**

**Spotlights: 4 min. recorded videos**

**Special session on workshop competitions**



# Changes This Year

**No plenary talks**

**Oral sessions 100 min.**

**Lunch service extended to 2 hours**

**Poster sessions before/after lunch are  
extended and overlap lunch service**

**Break served at beginning of morning  
or end of afternoon poster sessions  
(Coffee served all day)**

# 2018

	0730	0830	0845	0900	0915	0930	0945	1000	1015	1030	1045	1100	1115	1130	1145	1200	1215	1230	1245	1300	1315	1330	1345	1400	1415	1430	1445	1500	1515	1530	1545	1600	1615	1630	1645	1700	1715	1730	1745	1800	1830	1900	2000	2100			
<b>Tuesday, June 19</b>	Registration (South Lobby): Same all 3 days																																														
	Poster Setup (Halls C-E): Same all 3 days														Exhibits (Halls D-E): Same all 3 days; see exhibit map handout for exhibitor list & locations																																
	Tutorial (Room 151 A-C & G): Building Deep Learning Applications on Big Data Platforms, (see other booklet)														Tutorial (Room 151 A-C & G): New from HoloLens – Research Mode, (see other booklet)																																
	Breakfast (Hall A; Halls 1-4)				Oral Session 1-1A: Object Recognition & Scene Understanding I (Ballroom), pg. 6				Break (Halls A-C)				Lunch (Hall A; Halls 1-4)														Break (Halls A-C)				<div style="border: 1px solid black; padding: 5px; text-align: center;"> <b>CVPR 2018 At-a-Glance (Main Conference)</b> </div>										<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> <b>Social Event (The Gallivan Center): See map on pg. 21</b> </div>						
Welcome & Paper Awards (Ballroom)		Special Session: Workshop Competitions (Ballroom), pg. 6				Demos (Hall C): pg. 7														Oral & Spotlight Session 1-2A: Machine Learning for Computer Vision I (Ballroom), pgs. 16-17				Demos (Hall C): pg. 18																							
		Oral & Spotlight Session 1-1B: Analyzing Humans in Images I (Room 155), pg. 6				Poster Session P1-1 (Halls C-E): pgs. 7-11																		Poster Session P1-2 (Halls C-E): pgs. 12-16				Oral & Spotlight Session 1-2B: 3D Vision II (Room 155), pg. 17															Poster Session P1-3 (Halls C-E): pgs. 18-21				
		Oral & Spotlight Session 1-1C: 3D Vision I (Room 255), pg. 7																						Oral & Spotlight Session 1-2C: Machine Learning for Computer Vision II (Room 255), pgs. 17-18																							
<b>Wednesday, June 20</b>	Breakfast				Break (Halls A-C)															Lunch (Hall A; Halls 1-4)														Tutorial (Room 151 A-C & G): Using Intel Deep Learning Deployment Tools for Algorithm Development and Productization, (see other booklet)													
	Oral & Spotlight Session 2-1A: Object Recognition & Scene Understanding II (Ballroom), pg. 22				Demos (Hall C): pg. 24														Break				Oral & Spotlight Session 2-2A: Video Analytics (Ballroom), pg. 32				Demos (Hall C): pg. 34																				
	Oral & Spotlight Session 2-1B: Machine Learning for Computer Vision III (Room 155), pgs. 22-23				Poster Session P2-1 (Halls C-E): pgs. 24-27														Poster Session P2-2 (Halls C-E): pgs. 28-32				Oral & Spotlight Session 2-2B: Object Recognition & Scene Understanding III (Room 155), pg. 33				Poster Session P2-3 (Halls C-E): pgs. 34-37																				
	Oral & Spotlight Session 2-1C: 3D Vision III (Room 255), pgs. 23-24																		Oral & Spotlight Session 2-2C: Computational Photography (Room 255), pgs. 33-34																												
<b>Thursday, June 21</b>	Breakfast (Hall A; Halls 1-4)																		Break (Halls 1-4)				Lunch (Halls 1-4)														Doctoral Consortium: pg. 43										
	Oral & Spotlight Session 3-1A: Object Recognition & Scene Understanding IV (Ballroom), pg. 38				Poster Session P3-1 (Halls D-E): pgs. 40-42														Oral & Spotlight Session 3-2A: Analyzing Humans in Images II (Ballroom), pg. 44				Break (Halls 1-4)				Oral & Spotlight Session 3-3A: Machine Learning for Computer Vision V (Ballroom), pg. 46				Poster Session P3-2 (Halls D-E): pgs. 48-49																
	Oral & Spotlight Session 3-1B: Analyzing Humans (Room 155), pgs. 38-39																		Oral & Spotlight Session 3-2B: Machine Learning for Computer Vision IV (Room 155), pgs. 44-45				Oral & Spotlight Session 3-3B: Image Motion & Tracking (Room 155), pg. 47																								
	Oral & Spotlight Session 3-1C: Applications (Room 255), pgs. 39-40																																		Oral & Spotlight Session 3-2C: Object Recognition & Scene Understanding V (Room 255), pgs. 45-46				Oral & Spotlight Session 3-3C: Machine Learning for Computer Vision VI (Room 255), pgs. 47-48								

Tuesday  
and  
Wednesday

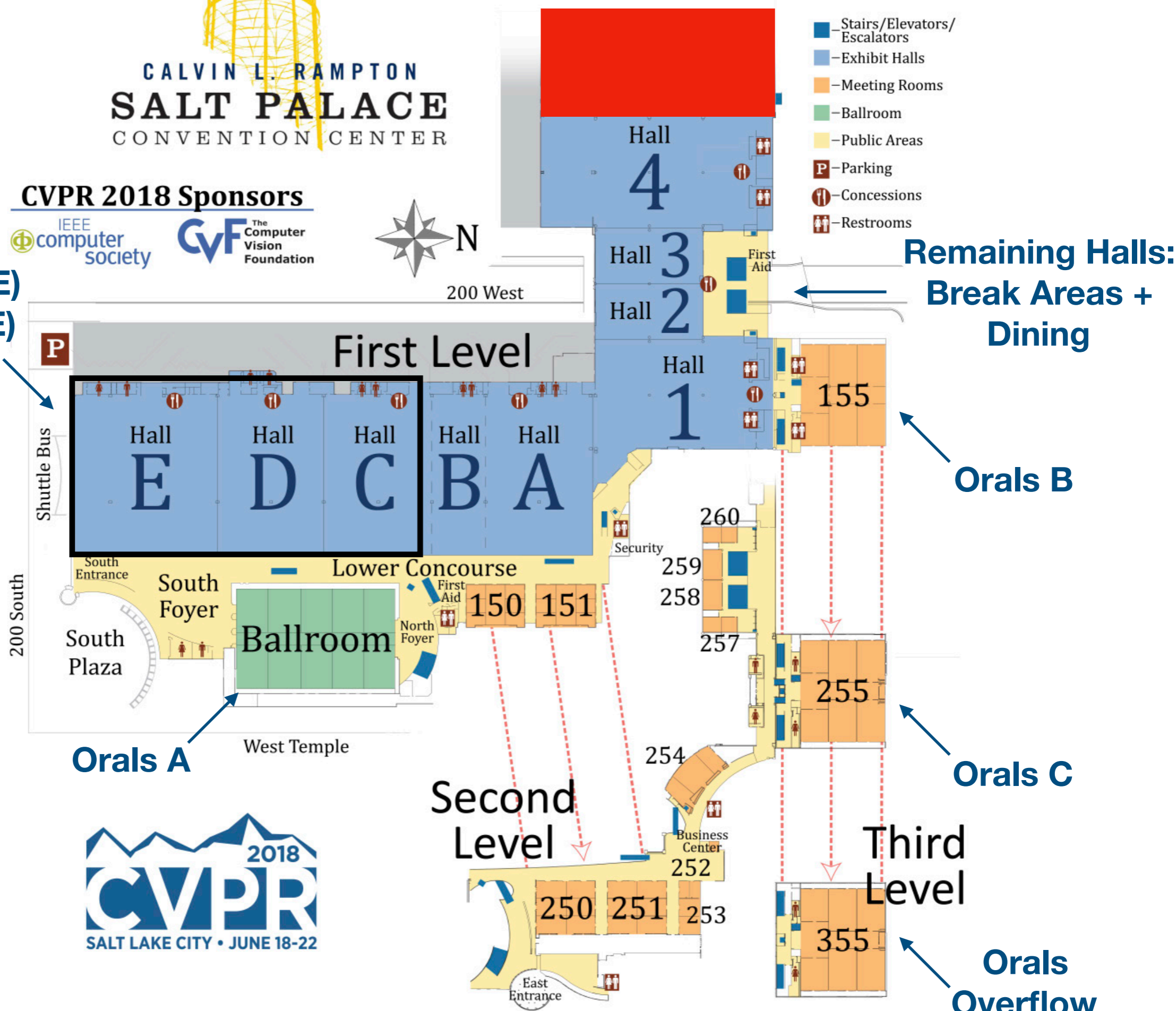
CALVIN L. RAMPTON  
**SALT PALACE**  
CONVENTION CENTER

CVPR 2018 Sponsors



- Stairs/Elevators/ Escalators
- Exhibit Halls
- Meeting Rooms
- Ballroom
- Public Areas
- Parking
- Concessions
- Restrooms

Exhibition (DE)  
Posters (CDE)  
Demos (C)



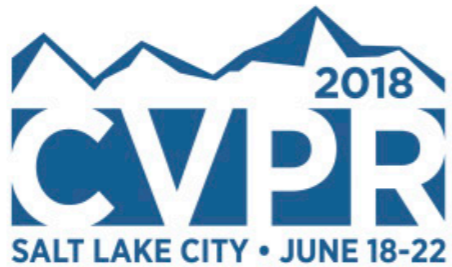
Orals A

Remaining Halls:  
Break Areas +  
Dining

Orals B

Orals C

Orals  
Overflow





Thursday

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- Public Areas
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- Concessions
- Restrooms

**Exhibition (DE)**  
**Posters (DE)**

**Remaining Halls:**  
**Break Areas +**  
**Dining**

**Orals B**

**Orals C**

**Orals A**

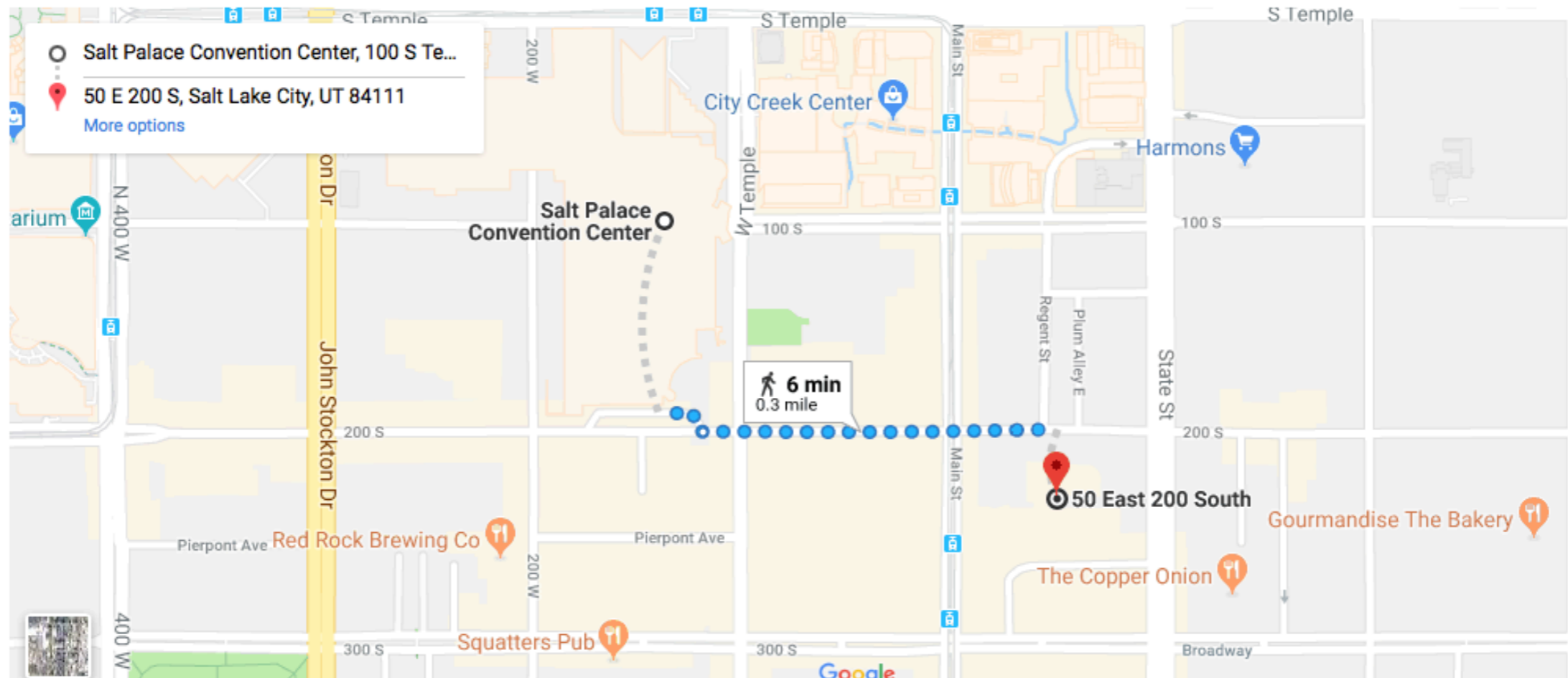
**Orals**  
**Overflow**



# Tonight's Social Event

**The Gallivan Center**  
**7:30 – 10:00 p.m.**

**You must wear your conference badge to enter.  
Drink tickets came with your badge at registration.**





# Thank you to the 2018 Organizing Team!





# Thank You to Our Sponsors!

## Diamond Sponsors



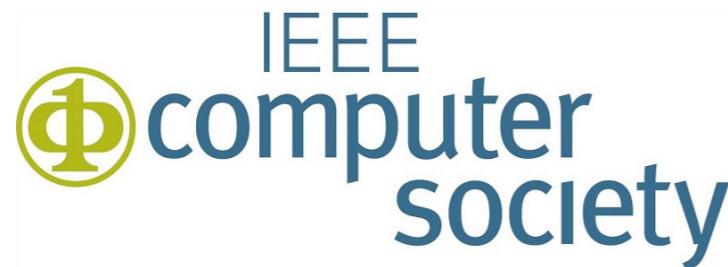
## Platinum Sponsors



## Gold Sponsors



## Silver Sponsors



# **CVPR 2018 Awards**



# **Best Paper Award**

## **Taskonomy: Disentangling Task Transfer Learning**

**Amir R. Zamir, Alexander Sax, William Shen,  
Leonidas J. Guibas, Jitendra Malik, and  
Silvio Savarese**

# **Best Student Paper Award**

**Total Capture: A 3D Deformation Model  
for Tracking Faces, Hands, and Bodies**

**Hanbyul Joo, Tomas Simon, and Yaser Sheikh**

# Honorable Mention

- **Deep Learning of Graph Matching**  
Andrei Zanfir, Cristian Sminchisescu
- **SPLATNet: Sparse Lattice Networks for Point Cloud Processing**  
Hang Su, Varun Jampani, Deqing Sun, Subhransu Maji,  
Evangelos Kalogerakis, Ming-Hsuan Yang, Jan Kautz
- **CodeSLAM – Learning a Compact, Optimisable Representation for Dense Visual SLAM**  
Michael Bloesch, Jan Czarnowski, Ronald Clark, Stefan Leutenegger,  
Andrew J. Davison
- **Efficient Optimization for Rank-Based Loss Functions**  
Pritish Mohapatra, Michal Rolínek, C.V. Jawahar, Vladimir Kolmogorov,  
M. Pawan Kumar

# **PAMI TC Awards**

**(Presented at last night's PAMI TC meeting)**

# **PAMI Longuet-Higgins Prize**

**Retrospective Best Paper from CVPR 2008**

## **A Discriminatively Trained, Multiscale, Deformable Part Model**

**Pedro Felzenszwalb, David McAllester, and  
Deva Ramanan**

# **PAMI Young Research Award**

**Andreas Geiger  
&  
Kaiming He**