

NEURAL ARCHITECTS WORKSHOP

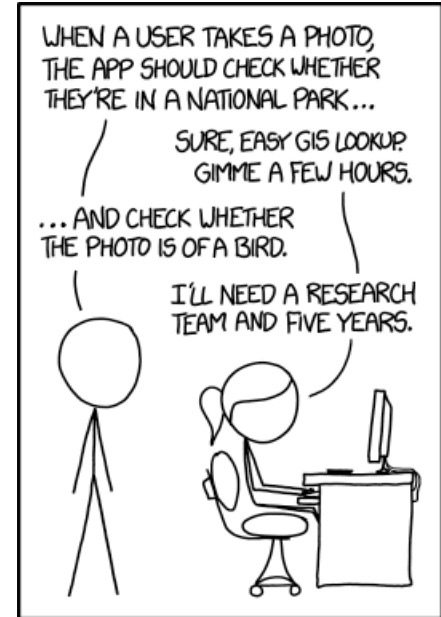
WHAT HAVE WE LEARNED AND WHERE ARE WE GOING?

ICCV 2019

MOTIVATION - THE BIG PICTURE

- Deep Neural Networks (DNNs) have transformed computer vision due to their empirical effectiveness.
- DNN design is a diverse and growing area

XKCD (5 years and 44 days ago)



IN CS, IT CAN BE HARD TO EXPLAIN THE DIFFERENCE BETWEEN THE EASY AND THE VIRTUALLY IMPOSSIBLE.



WORKSHOP OBJECTIVES

- High quality submissions on the topic of DNN design
- Gather some of the researchers who have contributed to this area to offer their perspective
- Mix of retrospective analysis (to understand how we got here) and exciting future directions
- Chart the "lay of the land" for recent entrants into the field. Online document: "Things everyone should know" (form linked on neuralarchitects.org website)





NEURAL ARCHITECTS - SUBMISSION STATISTICS

- 35 valid submissions
- 24 accepted papers (short and long format)
- 3 orals

REVIEW PROCESS

We are hugely grateful to our reviewers and oral/best paper selection committee who contributed their time and expertise:

- A. S. Koepke, Albert Pumarola, Bichen Wu, Chao Peng, Chuhan Zhang, Dan Xu, Gang Sun, Hakan Bilen, Jack Turner, Jack Valmadre, James Thewlis, Ji Liang, Jiankang Deng, Kai Han, Liu Leqi, Lukas Neumann, Oriane Simeoni, Peter Vajda, Qiang Guo, Robert McCraith, Ruth C. Fong, Sergi Caelles, Shangzhe Wu, Song Bai, Tengda Han, Tom Gunter, Vedanuj Goswami, Vicky Kalogeiton, Weidi Xie, Weilin Huang, Xia Li, Xiaoliang Dai, Xu Ji, Yang Liu, Yuki Asano, Zihang Lai, Andrew Zisserman

A particular thank you to: Jack Valmadre, Jack Turner, Vicky Kalogeiton, Sergi Caelles



MOMENTA

We would like to thank Momenta for enthusiastically sponsoring our workshop!

SCHEDULE

When	Who	What
09:28 - 09:29	Everyone	Read the top row of the schedule slide
09:30 – 10:00	Barret Zoph	Invited Talk
10:00 – 11:10	Everyone	Poster presentations and coffee
11:10 – 11:40	Iasonas Kokkinos	Invited Talk
11:40 – 12:10	Alan Yuille	Invited Talk
12:10 – 14:00	Everyone	Lunch
14:05 – 14:50	Shinya et al., Cao et al., Brown et al.	Oral presentations
14:50 – 14:55	Momenta	Best Paper Award
15:00 – 15:30	Sara Sabour	Invited Talk
15:30 – 15:50	Everyone	Tea and coffee and goodies
15:50 – 16:20	Ross Girshick	Invited Talk
16:25 – 17:20	Invited panel	Discussion
17:20 – 17:25	Everyone	Disperse

QUESTIONS FOR THE PANEL

All channels are listed on the website: neuralarchitects.org

- Via twitter: @samuelalbanie
- Via email: albanie@robots.ox.ac.uk
- Via speech over the course of the day
- Via hand raising (during the panel), in the style of Athenian democracy

QUESTIONS FOR THE ORGANISERS (LOGISTICS)



[Samuel Albanie](#)



[Li Shen](#)



[Jie Hu](#)



[Barret Zoph](#)



[Andrea Vedaldi](#)



[Andrew Zisserman](#)

QUESTIONS FOR THE PANEL

All channels are listed on the website: neuralarchitects.org

- Via twitter: @samuelalbanie
- Via email: albanie@robots.ox.ac.uk
- Via speech over the course of the day
- Via hand raising (during the panel), in the style of Athenian democracy

QUESTIONS FOR THE ORGANISERS (LOGISTICS)



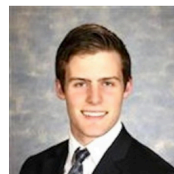
Samuel Albanie



Li Shen



Jie Hu



Barret Zoph



Andrea Vedaldi



Andrew Zisserman