WELCOME TO ICLR 2017!!

Marc'Aurelio Ranzato Senior Program Chair

Toulon - April 24-26, 2017

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Yoshua Bengio



Yann LeCun

Program Chairs



Tara Sainath



Oriol Vinyals



Hugo Larochelle

Local Organization Chair



Herve Glotin

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- Anima Anandkumar,
- Chris Pal
- David Duvenaud
- Devi Parikh
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- Y-Lan Boureau
- Zaid Harchaoui

ICLR 2017 - Conference

penReview

ural Programming Architectures Generalize via Recursion 🛚 🥶

Andrew MacCallum



Melisa Bok

End Goal-Oriented Dialog 🖻

Methods of Tallong Generative Adversarial Networks (A)
Michael Spector

Max Jaderberg, Volodymyr Mnih, Wojciech Marian Czarnecki, Tom Schaul, Joel Z Leibo, David Silver, Koray Kavufidmages; we've now run tests on additional images, including the "classic" examples (Barbara, Lena, Mandrill, Pepp Pamela Mandler

Abstract: We describe an image compression method, consisting of a nonlinear analysis transformation, a uniform of in three successive stages of convolutional linear filters and poplinear activation functions. Unlike most convolutional control, inspired by those used to model biological neurons. Using a variant of stochastic gradient descent, we jointly training images, introducing a continuous proxy for the discontinuous loss function arising from the quantizer. Under of a generative model, as implemented by a variational autoencoder. Unlike these models, however, the compression International Conference on Learning ep esin tiens

International Conf

Very interesting results

Jeremy Noring

Rating: 7: Good paper, accept-Review: Two things I'd like to see.

1) Specifics about the JPEG and JPEG2000 implementations used, and how they were configured. One major weaknet not include specific encoders and configuration used in comparisons. Without knowing this, it's hard to know if the suitably strong JPEG implementation that was properly configured, for example.

The comperison to JPEG2000 is unfortunately not that interesting, since that codec does not have widespread use; comparison would be with WebP performance. Or, even better, both.

Very nice results. Is a software implementation of this available to play with?

Confidence: 4: The reviewer is confident but not absolutely certain that the evaluation is correct

ICLR committee final decision

ICLR 2017 pcs

06 Feb 2017 ICLR 2017 conference acceptance readers: everyone

Comment: This is one of the two top papers in my stack and I recommend it for oral presentation. The reviewers we knowledgable of the topic.

Decision: Accept (Oral)

Revised paper uploaded

Johannes Ballé

10 Jan 2017 ICLR 2017 conference public comment | readers: everyone

Comment: We have uploaded a revised version of the paper. Major changes are as follows:

* Introduction/Discussion: we've made some adjustments to the text, further motivating the use of MSE (instead of that the addition of uniform noise is used only for optimization (all compression results are based on quantized and elaborating on the visual appearance of the compressed results.

photographs. All examples have been added to the online set, which has been consolidated at http://www.cns.nyu.e results on the Kodak set are unchanged from those uploaded at the time of initial submission). We've also made a fi images shown in the paper.

* Adaptive entropy coder: we've added some details about the entropy coder to the appendix, and have included a c

* Averaged rate-distortion comparison: The averaged R-D curves originally shown in fig 5 was meant to provide a su we had been concerned from the outset that performance is quite variable across images, and that there's no well-d

The Team

Admin/Finance



Rocio Arujo



Karen Smith

Website



Rodrigo Nogueira

Our Sponsors Platinum

















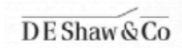
Gold





Silver











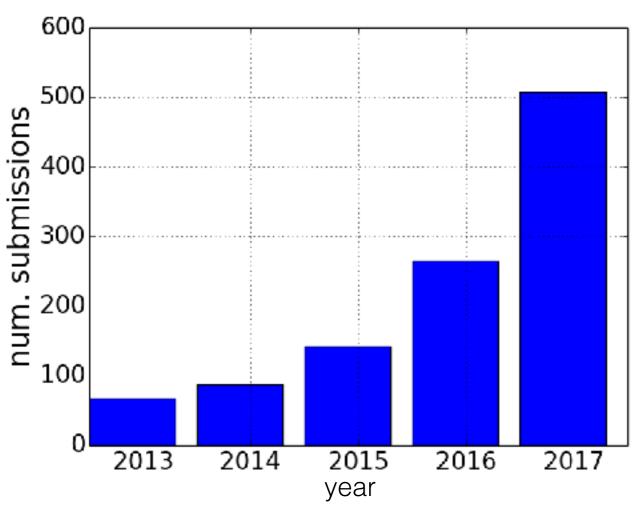
Bronze



ELEMENT' Yandex



ICLR 2017 Stats



online registration closed at 1,000

800

200

2013

2014

2015

2016

2017

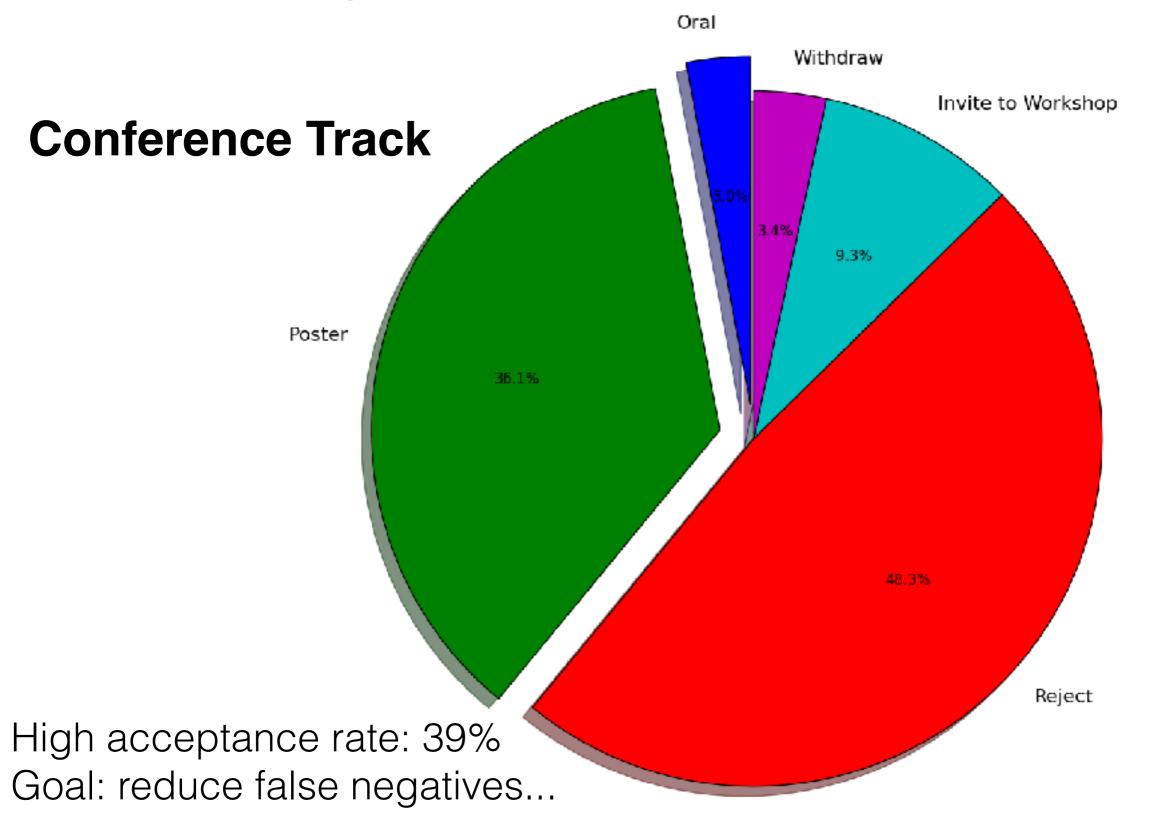
year

(not including workshop abstracts)

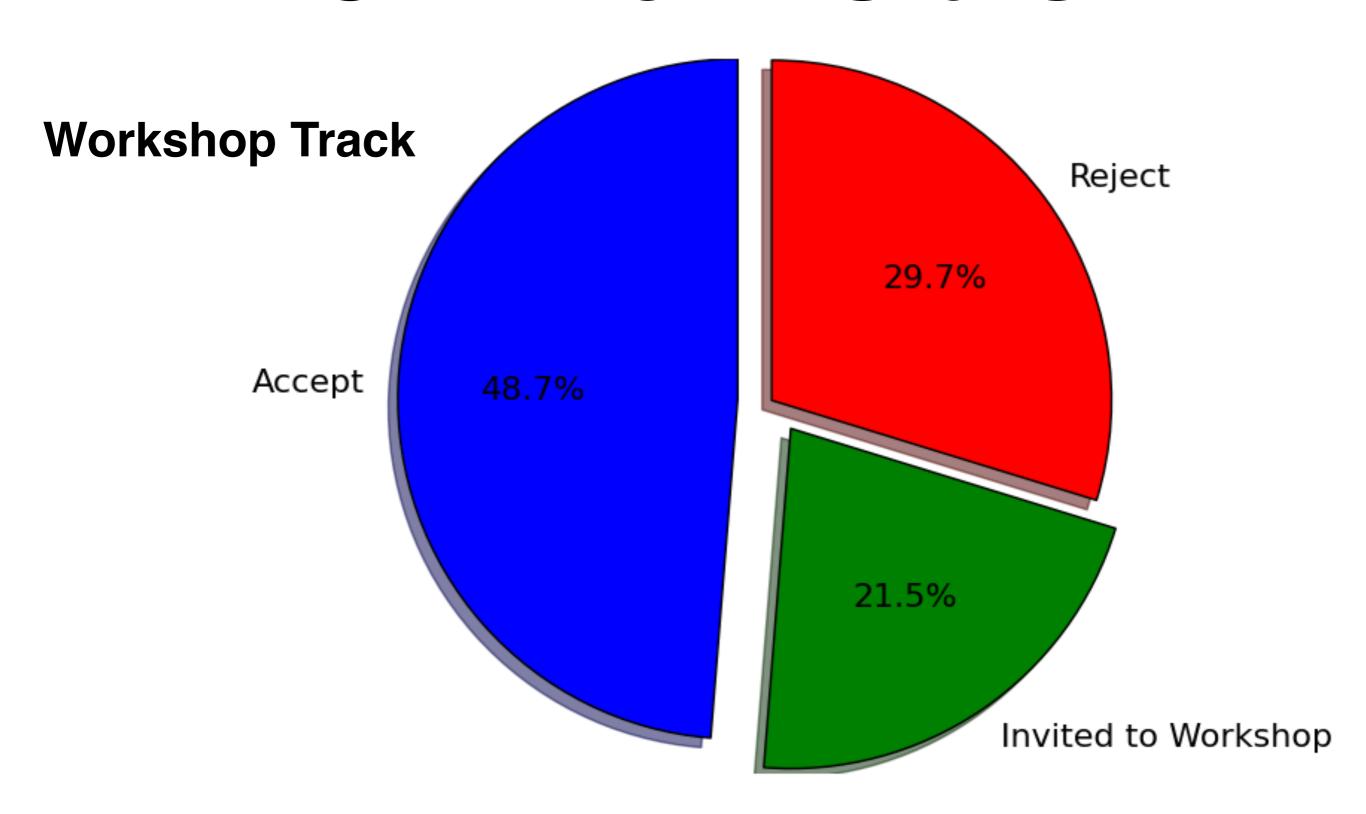
2017 registration closed before early deadline!

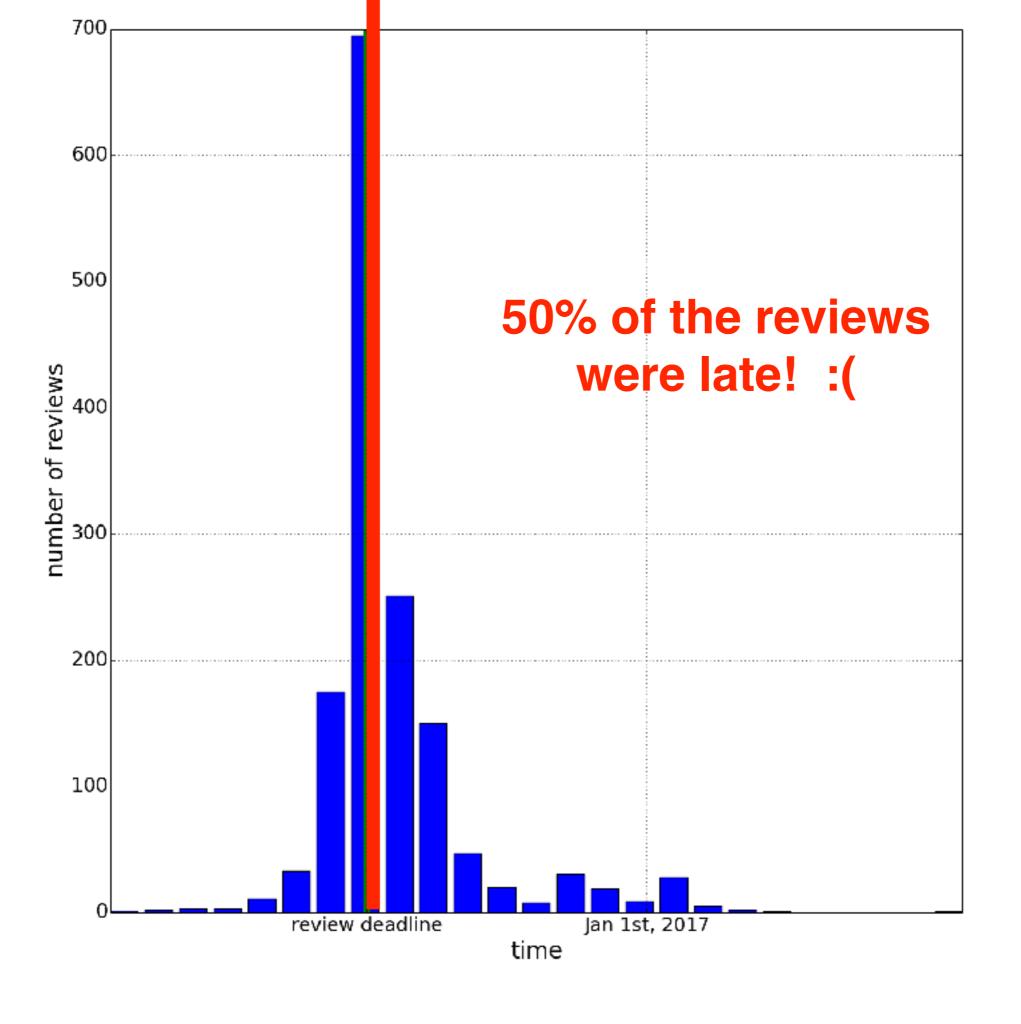
exponential growth!!

ICLR 2017 Stats

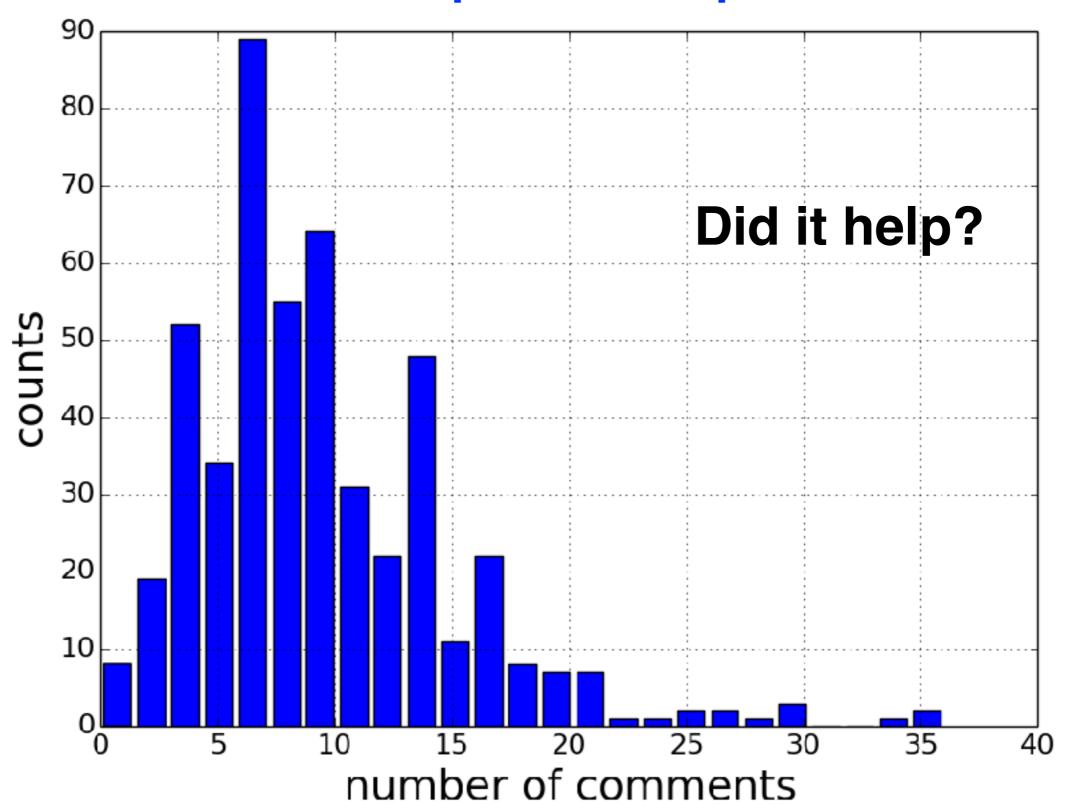


ICLR 2017 Stats

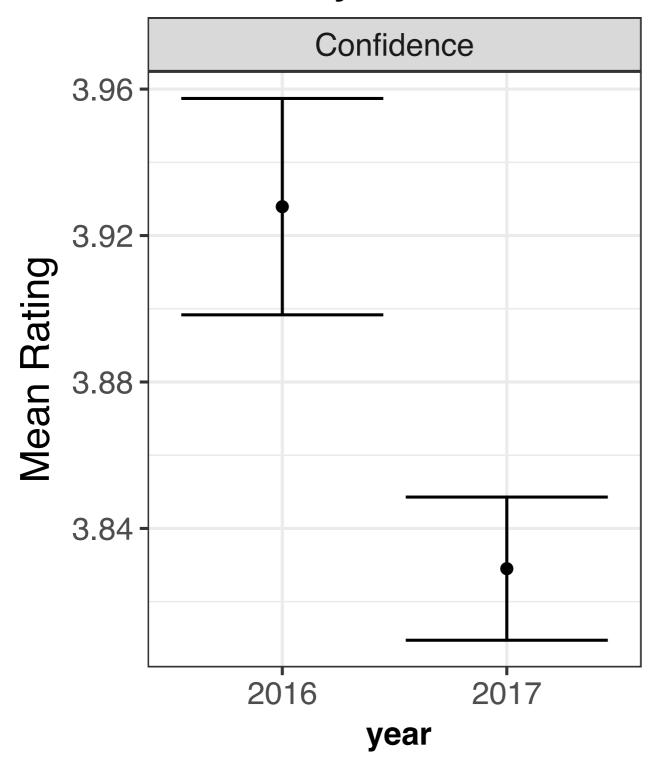




Lots of comments on papers thanks to OpenReview platform.



Summary Statistics of ICLR Reviews

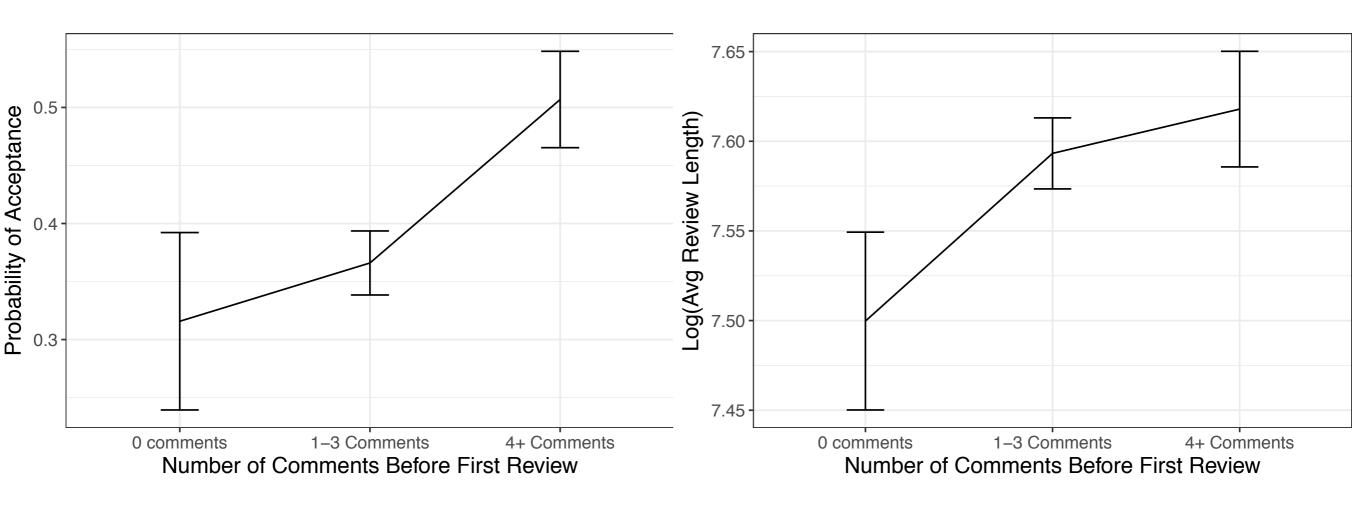


Reviewers did not get more confident! Note: reviewers and papers are different.

credit: Alex Peysakhovich



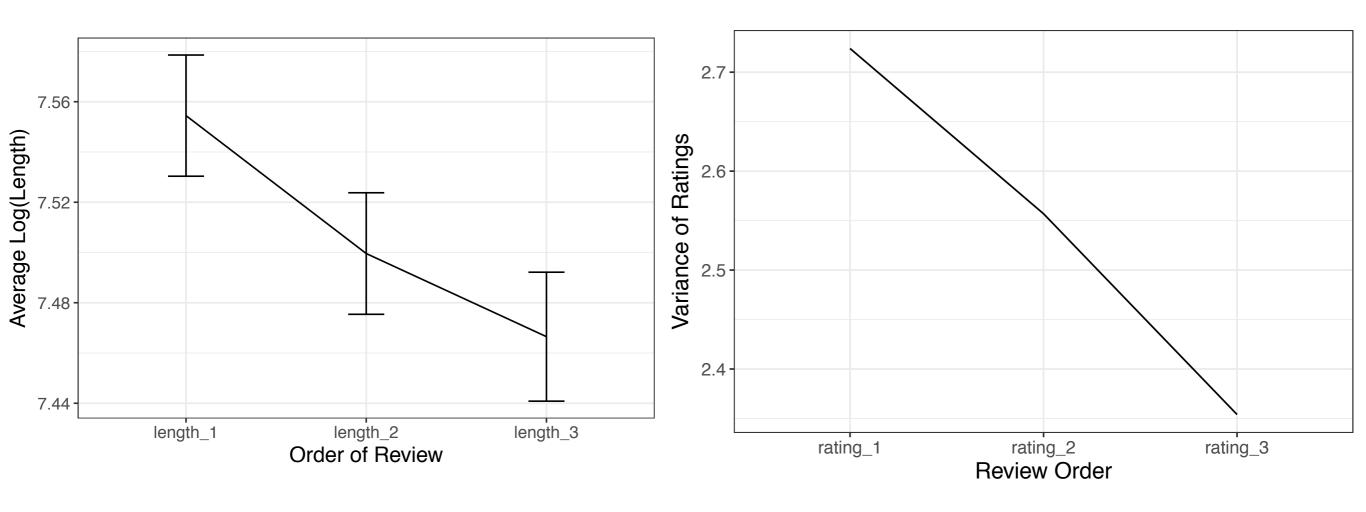
Papers that get more discussion are more likely to get accepted and get longer reviews.



credit: Alex Peysakhovich



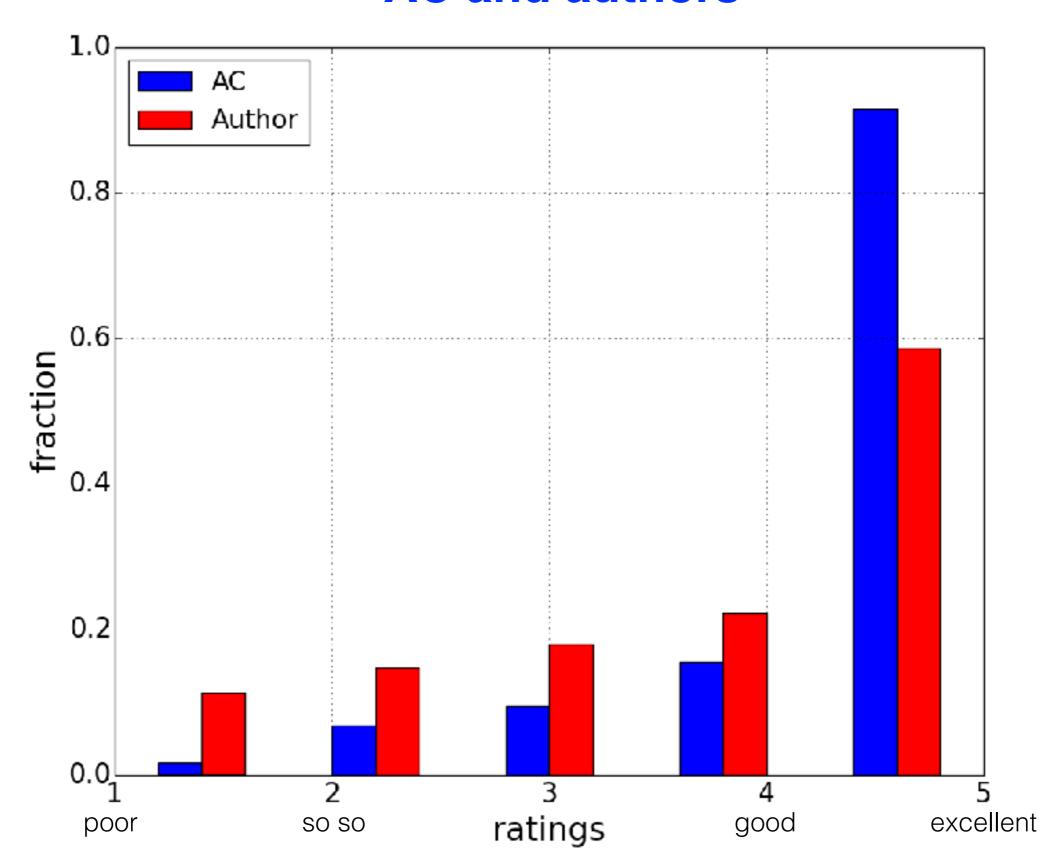
Bad news: There is some evidence of laziness (later reviews are shorter) and herding :(



credit: Alex Peysakhovich



Ratings of reviews/reviewers from AC and authors



ICLR 2017 Awards

- 3 Best Paper Awards:
 - Understanding deep learning requires rethinking generalization, C. Zhang, S. Bengio, M. Hardt, B. Recht, O. Vinyals
 - Semi-supervised knowledge transfer for deep learning with private training data, N. Papernot, M. Abadi, U. Erlingsson, I. Goodfellow, K. Talwar
 - Making neural programming architectures generalize via recursion, J. Cai, R. Shin, D. Song
- 15 Best Review Award. Corresponding reviewers:
 - P. Agrawal, A. Berahas, J. Bergstra, T. Cohen, R. Girshick, F. Hutter, B. Kingsbury, J. Kwok, C. Lassner, B. Neyshabur, E. Oyallon, V. Ramanathan, A. Saxe, J.T. Spingerberg, A. Storkey
- 66 Student Travel Awards

Group Photo: Tuesday @6pm



Information

- WiFi:
 - name: palais-neptune
 - password: neptune83
- Schedule and more at: iclr.cc
- Questions: ask volunteers or any of us!

