









NIPS 2017 Live Competition











NIPS 2017 Live Competition

Schedule

01:30 PM - 01:45 PM Introduction by the competition chairs, presentation of the challenge, its design, obtained results.

01:45 PM - 01:50 PM Awarding prize.

01:50 PM - 02:00 PM Short presentation by winning team.

02:00 PM - 02:30 PM Inspirational talk by Alexander Rudnicky

02:30 PM - 03:00 PM Panel discussion moderated by Julian Serban. The participants are <u>Alexander Rudnicky</u> (CMU), <u>Dilek Hakkani-Tur</u> (Google), <u>Jianfeng Gao</u> (MS Research) and <u>Joelle Pineau</u> (McGill U and FAIR).

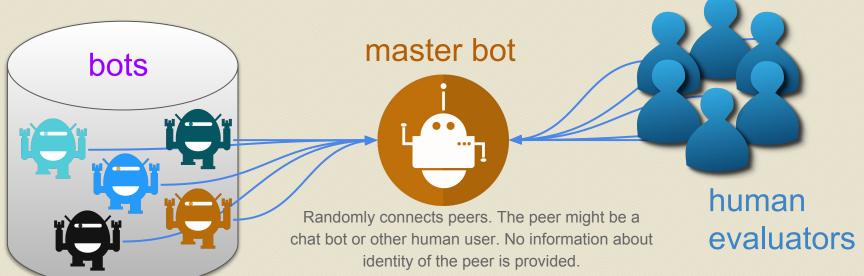
03:00 PM - 03:30 PM Coffee break + Poster session.

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We expect the competition to have two major outcomes:

1. evaluate quality of state-of-the-art dialogue systems, and

2. an open-source dataset collected from evaluated dialogues.



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- 1. Read a text
- 2. Talk to a peer (human or bot) about the text
- 3. Evaluate bot's quality:
 - a. and III for utterances
 - b. 1 to 5 for dialogues overall, breadth and engagement



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Results of Pre-NIPS Round





















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Results of Pre-NIPS Round



	вот	FINAL SCORE	Organisation
1	poetwannabe	2.386	University of Wroclaw
2	bot#1337	2.318	MIPT
3	RLLChatBot	2.226	McGill University
4	kAlb	2.027	KAIST, AlBrain, Crossert
5	DeepTalkHawk	1.432	Text Machine, UMass Lowell, Trinity College
6	PolyU	1.284	The Hong Kong Polytechnic University, Fudan University

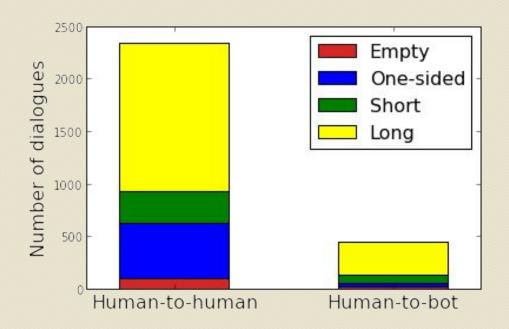
Sat Dec 9th 08:00 AM -- 06:30 PM @ S1

Machine Learning Challenges as a Research Tool

Isabelle Guyon · Evelyne Viegas · Sergio Escalera · Jacob D Abernethy

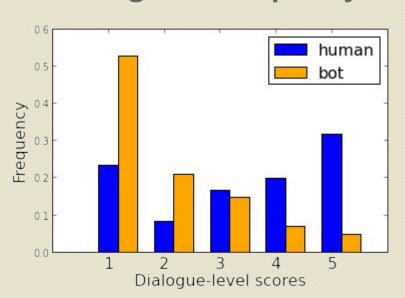
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2,778 dialogues: human-to-bot (84%) and human-to-human (16%)

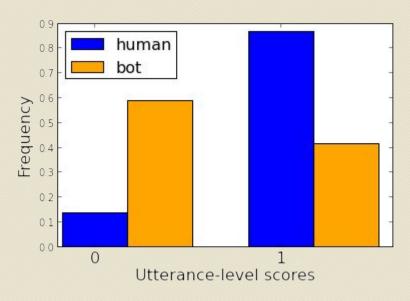


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Dialogue-level quality



Utterance-level quality



Correlation of dialogue-level and utterance-level scores: 0.6

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Data collection insights:

- dialogue-level quality, breadth and engagement are correlated;
- evaluating dialogues on the fly is difficult, turns are not rated;
- paragraphs from Wikipedia are too long and usually not used for the dialogue;
- humans are irresponsible;
- humans prefer talking to bots and break dialogue when understand that peer is human.

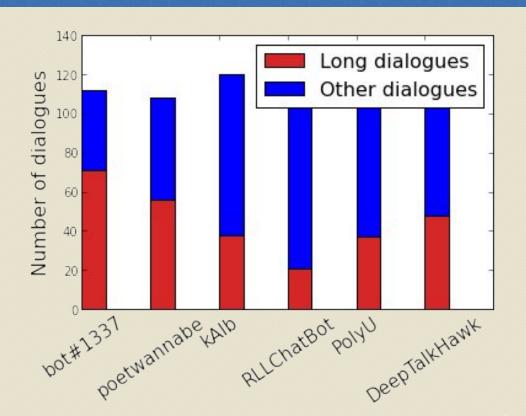
More details and data on - http://convai.io/data/



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NIPS data collection:

- 739 dialogues overall
- 292 long dialogues
- number of long dialogues depends on bot's quality



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Grand Conclusions

Everybody is fascinated with Conversational Al!

Nobody wants to to spend time chatting with bots on irrelevant topics!

1. We should continue

2. Motivate people





















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The main goal of hackathon is **semi-supervised Machine Translation**: Machine Translation which makes use not only from (often scarce) parallel data, but also from (potentially unlimited) untranslated texts in source and target languages. The participants will need to train an MT model on a very small parallel corpus and boost its performance using monolingual non-parallel data.

Timeline



http://deephack.me

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6





DeepTalkHawk

1.229

Text Machine, UMass Lowell, Trinity College

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5





PolyU

1.5

The Hong Kong Polytechnic University, Fudan University

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4



RLLChatBot

1.905

McGill University

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3







kAlb

2.105

KAIST, AlBrain, Crossert

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1-2



bot#1337

2.746

MIPT

poetwannabe

2.536

University of Wroclaw