Welcome to the First Workshop on Automatic Simultaneous Translation (AutoSimTrans). Simultaneous translation, which performs translation concurrently with the source speech, is widely useful in many scenarios such as international conferences, negotiations, press releases, legal proceedings, and medicine. It combines the AI technologies of machine translation (MT), automatic speech recognition (ASR), and text-to-speech synthesis (TTS), and is becoming a cutting-edge research field.

As an emerging and interdisciplinary field, simultaneous translation faces many great challenges, and is considered one of the holy grails of AI. This workshop will bring together researchers and practitioners in machine translation, speech processing, and human interpretation, to discuss recent advances and open challenges of simultaneous translation.

We organized a simultaneous translation shared task on Chinese-English. We released a dataset for open research, which covers speeches in a wide range of domains, such as IT, economy, culture, biology, arts, etc.

We also have two sets of keynote speakers: Hua Wu, Colin Cherry, Jordan Boyd-Graber, Qun Liu from simultaneous translation, Kay-Fan Cheung and Barry Slaughter Olsen from human interpretation research. We hope this workshop will greatly increase the communication and crossfertilization between the two fields.

We look forward to an exciting workshop.

Hua Wu, Colin Cherry, Liang Huang, Zhongjun He, Mark Liberman, James Cross, Yang Liu
Organizers:

Hua Wu, Baidu Inc.
Colin Cherry, Google
Liang Huang, Oregon State University and Baidu Research
Zhongjun He, Baidu Inc.
Mark Liberman, University of Pennsylvania
James Cross, Facebook
Yang Liu, Tsinghua University

Program Committee:

Mingbo Ma, Baidu Research, USA
Naveen Arivazhagan, Google, USA
Chung-Cheng Chiu, Google, USA
Kenneth Church, Baidu Research, USA
Yang Feng, CAS/ICT, China
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Hairong Liu, Baidu Research, USA
Kaibo Liu, Baidu Research, USA
Wolfgang Macherey, Google, USA
Jan Niehues, Maastricht U., Netherlands
Yusuke Oda, Google, Japan
Colin Raffel, Google, USA
Elizabeth Salesky, CMU, USA
Jiajun Zhang, CAS/IA, China
Ruiqing Zhang, Baidu Inc. China
Renjie Zheng, Oregon State Univ., USA

Invited Speakers:

Hua Wu, Chief Scientist of NLP, Baidu Inc., China
Colin Cherry, Research Scientist in Google Translate, Google Inc., Montreal, Canada
Jordan Boyd-Graber, Associate Professor, University of Maryland, USA
Qun Liu, Chief Scientist of Speech and Language Computing, Huawei Noah's Ark Lab, China
Kay-Fan Cheung, Associate Professor, The Hong Kong Polytechnic University,
Member of the International Association of Conference Interpreters (AIIC), China
Barry Slaughter Olsen, Professor, the Middlebury Institute of International Studies
and Conference Interpreter, Member of AIIC, USA
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Friday, July 10, 2020

8:50–9:00  Opening Remarks

9:00–11:00  Session 1

9:00–9:30  Invited Talk 1: Colin Cherry

9:30–10:00  Invited Talk 2: Barry Slaughter Olsen

10:00–10:30  Invited Talk 3: Jordan Boyd-Graber

10:30–11:00  Q&A

11:00–14:00  Lunch

17:00–19:00  Session 2

17:00–17:30  Invited Talk 4: Hua Wu

17:30–18:00  Invited Talk 5: Kay-Fan Cheung

18:00–18:30  Invited Talk 6: Qun Liu

18:30–19:00  Q&A
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19:00–19:30 Break

19:30–21:00 Session 3: Research Paper and System Description

19:30–19:40 Dynamic Sentence Boundary Detection for Simultaneous Translation
Ruiqing Zhang and Chuanqiang Zhang

19:40–19:50 End-to-End Speech Translation with Adversarial Training
Xuancai Li, Chen Kehai, Tiejun Zhao and Muyun Yang

19:50–20:00 Robust Neural Machine Translation with ASR Errors
Haiyang Xue, Yang Feng, Shuhao Gu and Wei Chen

20:00–20:10 Improving Autoregressive NMT with Non-Autoregressive Model
Long Zhou, Jiajun Zhang and Chengqing Zong

Junxuan Chen, Xiang Li, Jiarui Zhang, Chulun Zhou, Jianwei Cui, Bin Wang and Jinsong Su

20:20–20:30 BIT’s system for the AutoSimTrans 2020
Minqin Li, Haodong Cheng, Yuanjie Wang, Sijia Zhang, Liting Wu and Yuhang Guo

20:30–21:00 Q&A

21:00–21:10 Closing Remarks