Some questions from the discussant

Andrei Popescu-Belis ISSCO, University of Geneva

Future challenges for MT evaluation

- Who are the main users of MT evaluation?
- What do they need?
 - MT developers want to improve the accuracy of MT output quality
 - MT users (human or software) want to improve their productivity using the most suitable MT system

MT developers (1)

• Do they need better (automatic) metrics?

Example : PINK

- get plenty of source texts, human (reference) translations, MT output, human (reference) scores
- train/test PINK to best match human scores
- PINK is 1% better than BLEU at matching human judgments ⁽²⁾
 - but if the agreement of human raters is only about 95%, what is the sense of the 1% improvement?

MT developers (2)

- Tony said:
 - improve the measures that target the preservation of form and of content
- But:
 - should automatic MT evaluation replace MT?
 - if you have a good automatic method to measure semantic similarity, why not use it for MT?

MT developers (3)

- Do we know enough about the behavior of existing metrics of output quality?
- Do we need some kind of <u>common packaging</u> of output quality metrics?
 - resources
 - scoring software (automatic / human interfaces)
 - scale/range
 - reliability assessment

MT users (1): humans

- Tony said:
 - look for instance at post-editing effort
- But:
 - shouldn't we try to assess first the range of actual (and future) uses of MT?
 - new ideas & funding for MT developers

MT users (2): other software

• Tony said:

- look at IR+MT, QA+MT, etc.

- But:
 - are there any general results about the combination of performances/flaws in a complex HLT system?

➢e.g. progressive degradation in a pipeline

Summary: do we need more "standardization" of MTEval?

- Improve the reusability of metrics for output quality
 - design self-contained evaluation packages
- Improve the generality of usability studies
 - survey existing uses of MT as a component
 - methodology for reusing user-centric MTEval results
 - define a methodology for the evaluation of multicomponent systems that include MT