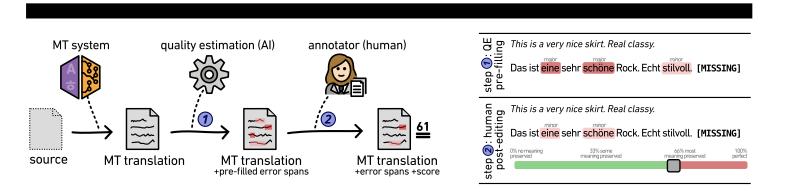
Even Better Human Evaluation of Machine Translation

AI-Assisted Human Evaluation of Machine Translation; Vilém Zouhar, Tom Kocmi, Mrinmaya Sachan



Faster, more annotated errors & higher agreement

	ESA	ESA ^{AI}	<pre>pre-annotations make</pre>	
Annotated errors Average score Time/segment	0.45 81.8 58s		annotators notice ← more mistakes ← a bit faster	Score from s
Time/segment/error	71s	31s	← much faster	final score

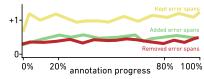
	Intra Agı	reement*	Inter Agreement ESA ESA ^{AI}	
	ESA	ESA ^{AI}	ESA	ESA ^{AI}
Score from spans Direct scores	0.282 0.222	0.489 0.486	0.327 0.376	0.671 0.533

final score is based on human only → alleviates bias

Low annotator automation bias

Annotators make similar types of annotations at the beginning as at the end \rightarrow No learned carelesness.

After attention checks, where QE is incorrect (does not detect errors), annotators trust it less and accept fewer QE suggestions (84%→73%).

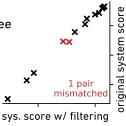


Automated pre-selection of evaluation-worthiness

When QE pre-annotates no errors, 90% annotators agree there are no errors. → Why human-annotated these?

With no-error spans removed (25% of budget), system ranking is almost the same!

Check out subset2evaluate: How to Select Datapoints for Efficient Human Evaluation of NLG Models? (2025)

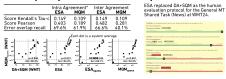






1.44x faster than MQM without need for experts
Our annotation campaign: 200 WIT2s English-Derman segments annotated by translators:
1) expert MQM annotators (49's segment), and 21 ESA annotators (34's segment).

Better quality than DA+SQM, comparable to MQM



ESA gives continuous scores

human-only version