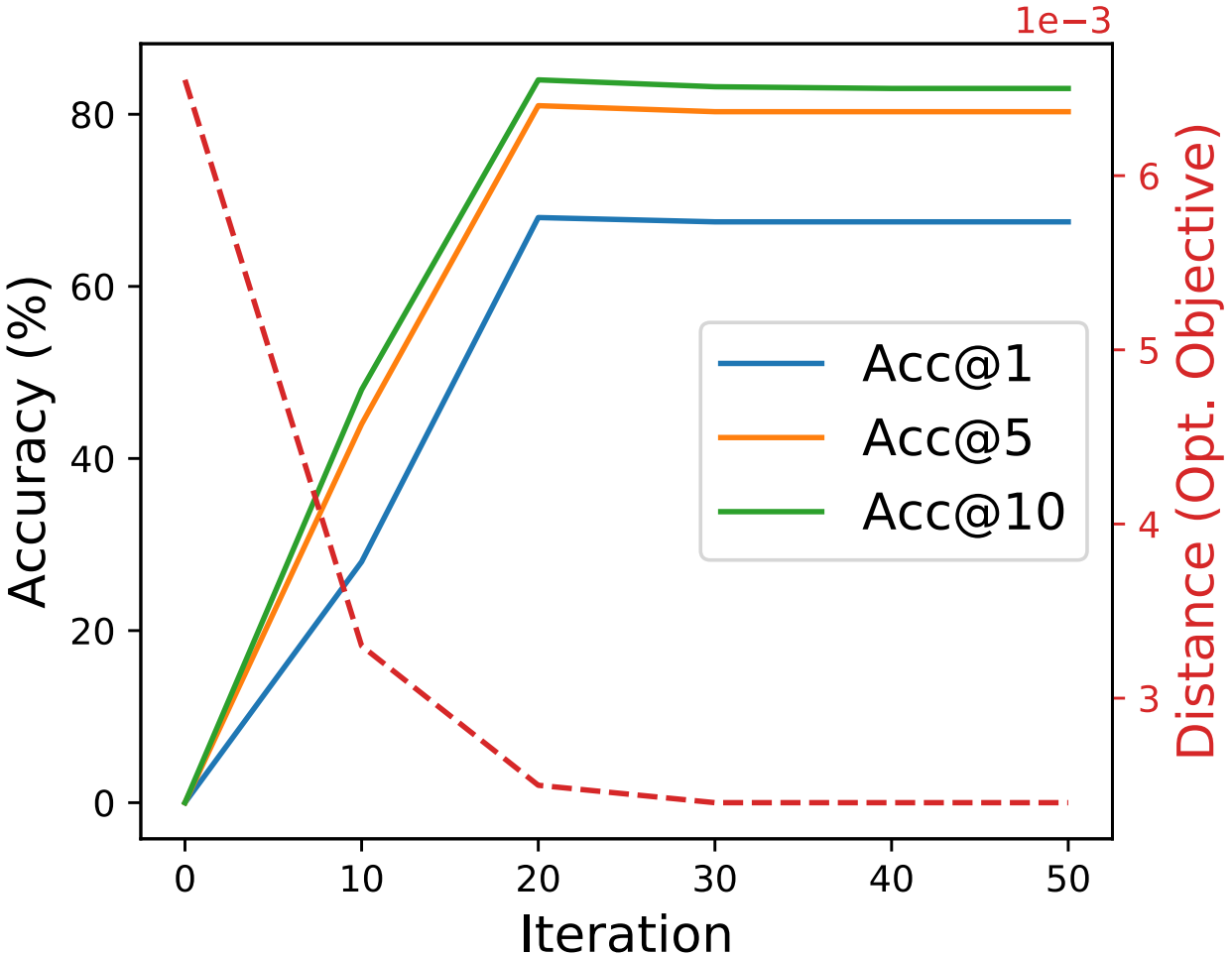
[redacted]

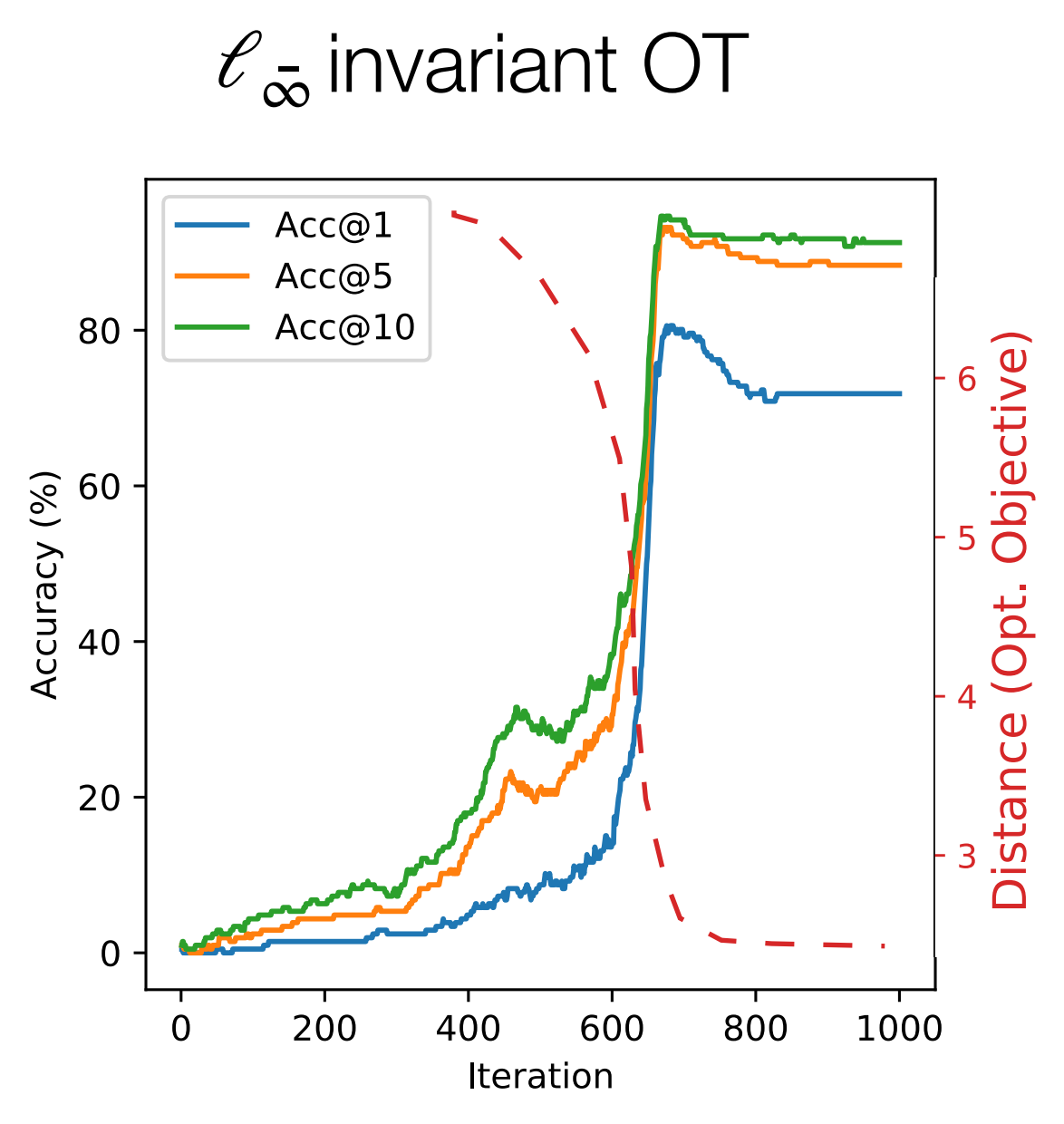
# application: word translation

# Invariant OT

47

# Gromov-Wasserstein




$\ell_\infty$ invariant OT
Acc@1
Acc@5
Acc@10
Accuracy (%)
0
20
40
60
80
Distance (Opt. Objective)
3
4
5
6
0
200
400
600
800
1000
Iteration

Both objectives are strongly predictive of the metric of interest (accuracy)!!

# Example: En ⇒ Es

**Dataset:** MUSE [Conneau et al., 2018], fastText embeddings of size 300

**Languages:** English ↔ [Spanish | Italian | French | German | Russian ]

**Evaluation Metric**: Translation precision-at-k

# Invariant OT
## application: word translation

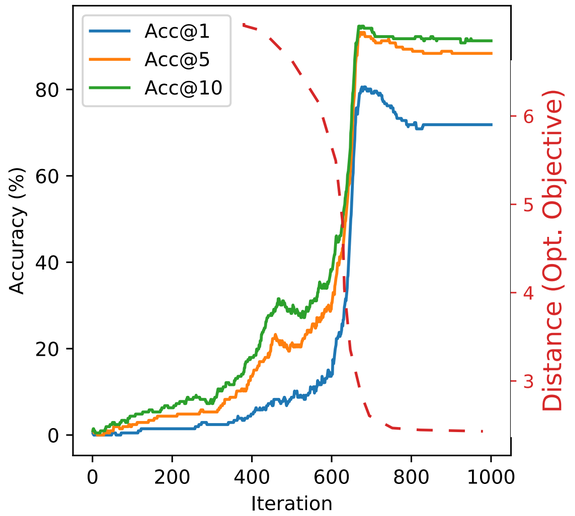
**Dataset:** MUSE [Conneau et al., 2018], fastText embeddings of size 300

**Languages:** English ↔ [Spanish | Italian | French | German | Russian ]

**Evaluation Metric**: Translation precision-at-k

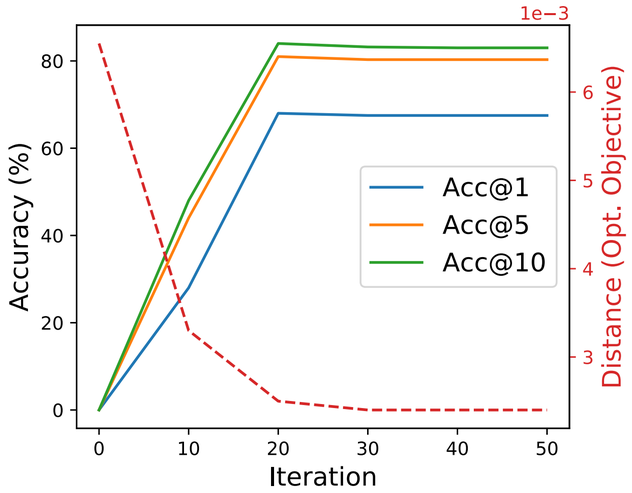
Example: En ⇒ Es

$\ell_\infty$ invariant OT




Both objectives are strongly predictive of the metric of interest (accuracy)!!

Gromov-Wasserstein



# Invariant OT
## application: word translation