UMONS
Université de Mons inforTech


## Similarity versus Supervision: Best Approaches for HS Code Prediction



Table 2: Top-1, top-3, and top-5 accuracy of supervised models with respect to the minimum number of samples per class.
$\qquad$ Performance drops with fewer min. samples per class
$\sum 30 \%$ top-1 acc. for 209 classes ----- Similarity : 60\% top-1 for 1,196 classes

Added difficulty : Handling out-of-distribution classes

## 06 - CONCLUSION

Similarity-based approach: MPNet achieves 89\% and 94.8\% top-3 and top-5 acc. across 1,196 classes for HS10 prediction

Supervised-based approach : worse performance + not scaling well with classes + not handling out-of-distribution classes


