

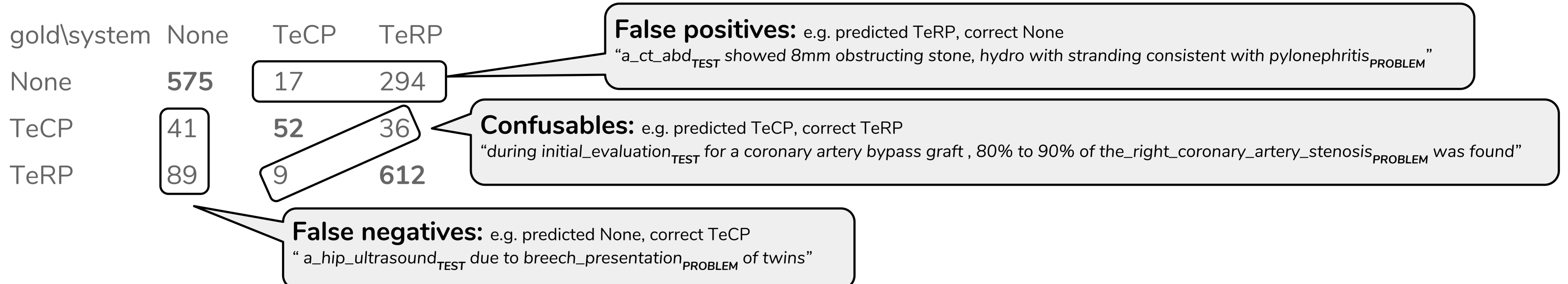
# Revisiting neural relation classification in clinical notes with external information

Simon Šuster, Madhumita Sushil and Walter Daelemans

Computational Linguistics & Psycholinguistics Research Center, University of Antwerp

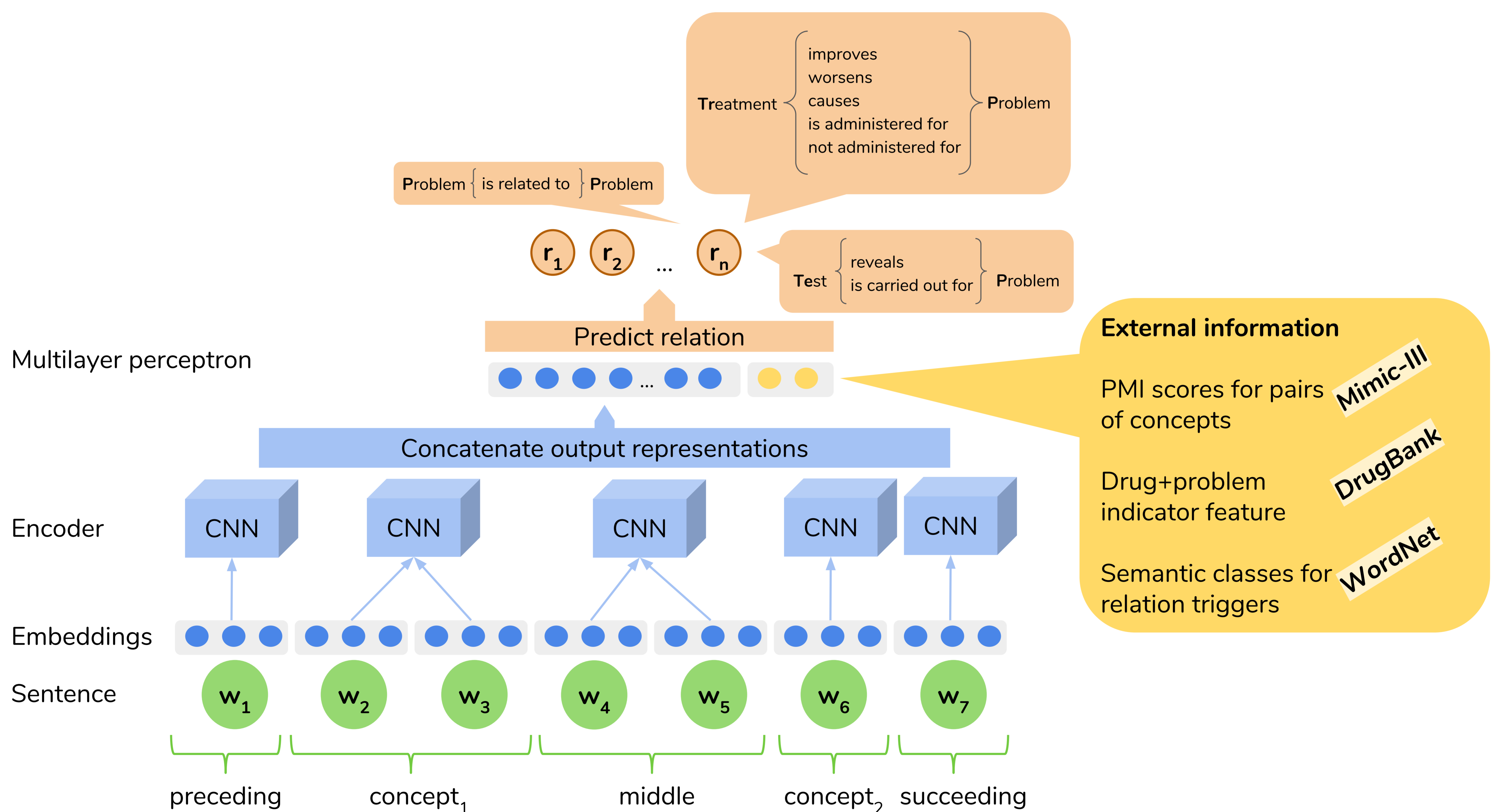
firstname.lastname@uantwerpen.be

## Diagnosing errors of an end-to-end segment CNN (Luo et al. 2018)



Luo, Y., Cheng, Y., Uzuner, Ö., Szolovits, P., & Starren, J. (2017). Segment convolutional neural networks (Seg-CNNs) for classifying relations in clinical notes. JAMIA, 25(1), 93-98.

## Architecture and setup



## Results

Large gains are obtained when incorporating **semantic classes to capture relation triggers**  
 Little improvement observed with PMI and Drugbank information

