

Erratum: Second-Order Semantic Dependency Parsing with End-to-End Neural Networks

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The second formula of section 3.2 was:

$$\phi_p(X_{ij}, X_{kl}) = \begin{cases} \exp(s_{ij,kl}^{(type)}) & X_{ij} = X_{kl} = 1 \\ 0 & \text{Otherwise} \end{cases}$$

The correct formula is:

$$\phi_p(X_{ij}, X_{kl}) = \begin{cases} \exp(s_{ij,kl}^{(type)}) & X_{ij} = X_{kl} = 1 \\ \mathbf{1} & \text{Otherwise} \end{cases}$$

Also in section 3.2, the last sentence of paragraph “Loopy Belief Propagation” was “...output $Q_{ij}^{(T)}(X_{ij})$ ”. It should be “...output normalized $Q_{ij}^{(T)}(X_{ij})$ ”.
The first formula of section 3.3 was:

$$P(y_{ij}^{(\text{edge})} | \mathbf{w}) = \text{softmax}(Q_{ij}^{(T)}(X_{ij}))$$

The correct formula is:

$$P(y_{ij}^{(\text{edge})} = X_{ij} | \mathbf{w}) = Q_{ij}^{(T)}(X_{ij})$$

These errors have been fixed in the version of the paper available in arXiv and in the authors’ homepages, but not in the version in the ACL anthology. We apologize for the errors.