

# T-39: Combination of LSTM and CNN for Recognizing Handwritten Online Mathematical Symbols

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- ✦ Recognition of math symbols is the basis to recognize math expressions which contains various challenges
- ✦ Long Short Term Memory and Convolution Neural Network are promising for online and off-line handwriting recognition, respectively.
- ✦ Our work:
  - ✦ Using combined features of on-line pen-trajectory features with gradient-based context features to improve LSTM's accuracy.
  - ✦ Applying dropout and ReLU to improve CNN's accuracy.
  - ✦ Deploying combination of these two neural networks.