**Writer identification in handwritten document images**

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The problem of verifying the authorship of handwritten documents is an important task in many fields, e.g., criminology and historical research. This project tackles the writer verification problem using a neural network trained with various methods to enhance accuracy. We decided to use top rank loss for this task,coupled with few shot learning, which was never tried for image identification before.

**Keywords:** writer verification, handwriting analysis, document image analysis, deep-learning network, top-rank,few shot learning.