

## Recognition of Tifinagh Characters with Missing Parts Using Neural Network

**Authors :** El Mahdi Barrah, Said Safi, Abdessamad Malaoui

**Abstract :** In this paper, we present an algorithm for reconstruction from incomplete 2D scans for tiffinagh characters. This algorithm is based on using correlation between the lost block and its neighbors. This system proposed contains three main parts: pre-processing, features extraction and recognition. In the first step, we construct a database of tiffinagh characters. In the second step, we will apply "shape analysis algorithm". In classification part, we will use Neural Network. The simulation results demonstrate that the proposed method give good results.

**Keywords :** Tifinagh character recognition, neural networks, local cost computation, ANN

**Conference Title :** ICSRD 2020 : International Conference on Scientific Research and Development

**Conference Location :** Chicago, United States

**Conference Dates :** December 12-13, 2020