An approach using neural networks on curves to determine the font of Arabic calligraphy art works

Hayyan Helal, TU Clausthal

Text recognition in all languages wasn't a problem any more after the use of neural networks, but there are still no papers published that considers the characteristics of the Arabic language. The font in Arabic calligraphy works cannot be always recognized using the normal methods because the text is written sometimes in a very complex way. Most of the papers published until now take approaches on Latin letters and use them to determine the texts in Arabic.

This project is an approach of writing a program that uses neural networks to determine the font of an Arabic text in a given photo. The project will be focused on Calligraphy works not on normal hand writing. And the approach won't be by considering the pixels of the photo as usual, but by considering the curves that make the letters.

Dienstag, den 13.03.2018, 10 Uhr s.t. im Besprechungsraum 106, IfI, Julius-Albert-Straße 4