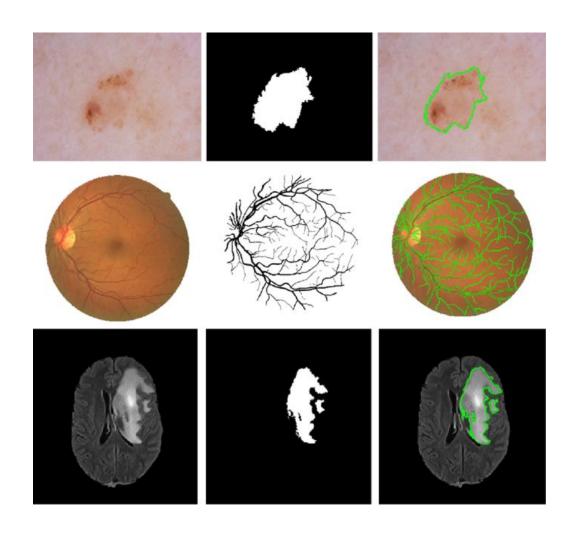
Segmentación de imágenes médicas

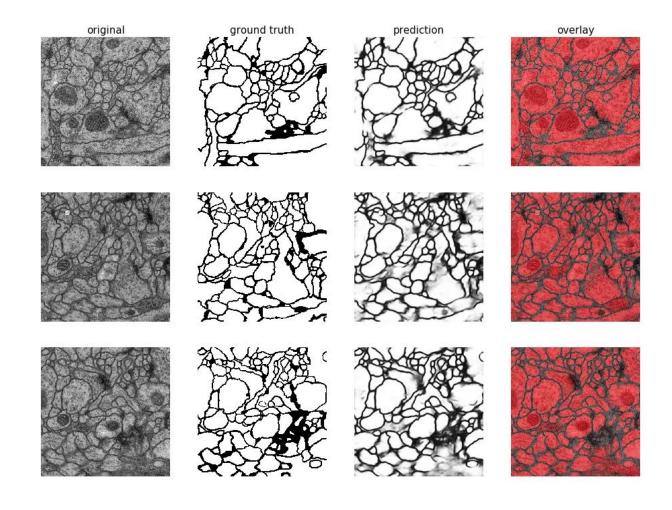


Olaf
Ronneberger
et al.,
2015

Segmentación de imágenes



Segmentación con U-Net



Segmentación con U-Net

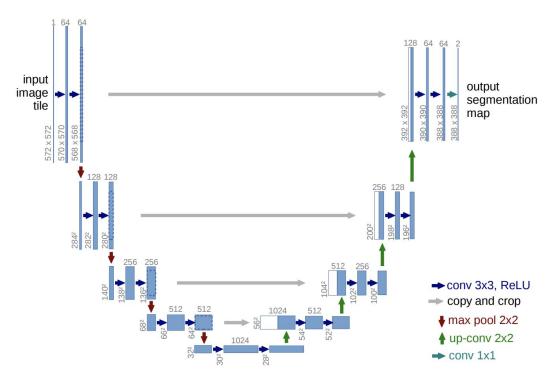
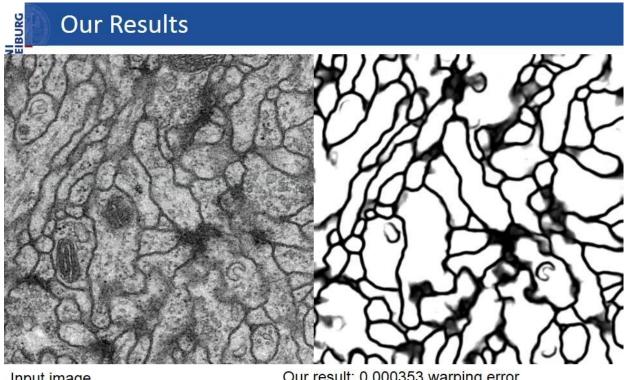


Fig. 1. U-net architecture (example for 32x32 pixels in the lowest resolution). Each blue box corresponds to a multi-channel feature map. The number of channels is denoted on top of the box. The x-y-size is provided at the lower left edge of the box. White boxes represent copied feature maps. The arrows denote the different operations.

Segmentación con U-Net



Input image

Our result: 0.000353 warping error

(New best score at submission march 6th, 2015)

Sliding-window CNN: 0.000420

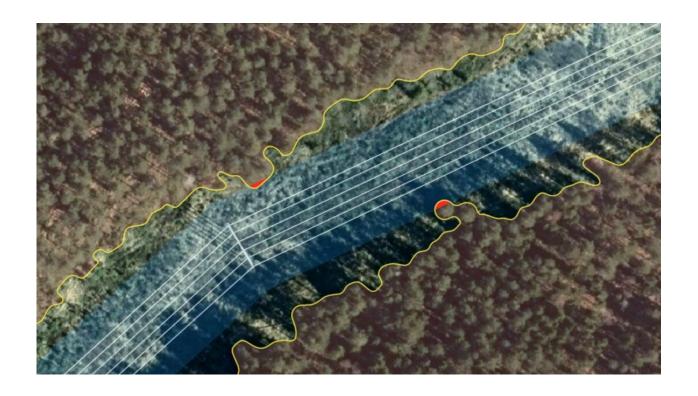
Training time: 10h, Application: 1s per image

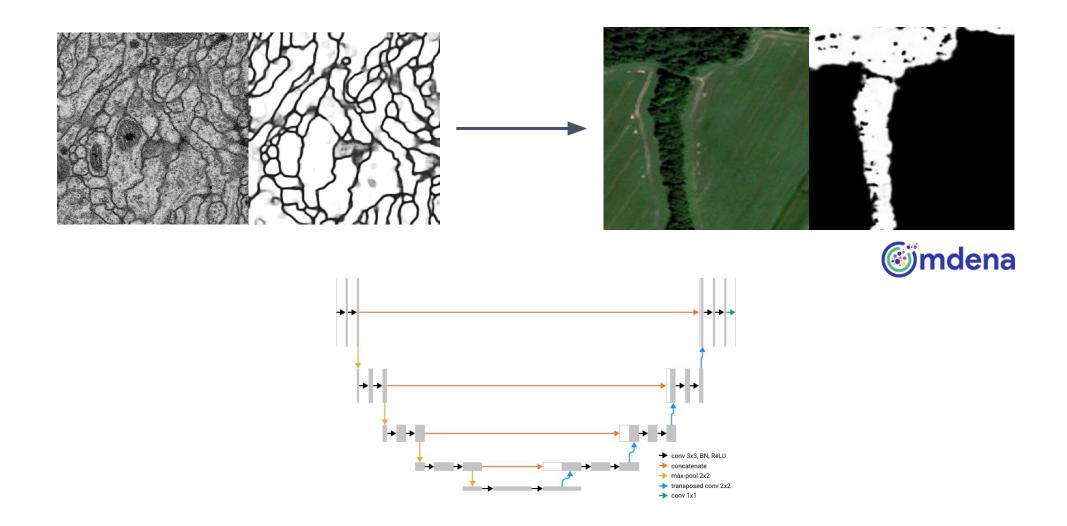
Olaf Ronneberger, University of Freiburg, Germany, 22.5.2015

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Caso de estudio

Prevención de incendios





U-Net: Convolutional Networks for Biomedical Image Segmentation.

Prevención de incendios

- Omdena + Spacept, una startup sueca
- 36 colaborador@s a nivel global (<u>al menos 3</u> <u>mexicanos</u>)
- Dataset de 200 imágenes satelitales (Australia)
- Desarrollamos un modelo con 95% de precisión
- Desarrollamos un módulo que preprocesa imágenes
- iResolvimos el challenge!

