

Real Time Egocentric Segmentation of Local Reality for eXtended Reality Applications

Objective



At Nokia eXtended Reality Lab, we have developed a Deep-learning based algorithm able to segment egocentric bodies in real time. This algorithm is already integrated in several MR applications, as the one you can see in [this video](#). With this internship we aim to improve the algorithm by:

- Exploring new algorithms from the state-of-the-art that provides a better quality vs inference time tradeoff.
- Improving the quality of the dataset, by adding new images with more variability.
- By increasing the functionality of the algorithm, so that, it can segment objects interacting with human body parts.

Conditions

- 20 hours / week (flexible arrangement and remote working)
- Salary: 750 €/month
- Minimum duration 6 months (optional extension up to 12 months)
- Expected starting time: Q1 2022 (September preferable)
- Location: Nokia Spain (Las Tablas), María Tubau 9, Madrid



Requirement

- Students at finishing their BsC or MsC studies related to Computer Science, Electrical Engineering, or related. Machine Learning and Deep Learning knowledge are required.
- Python and some knowledge about DL framework: Keras, Tensorflow, Pytorch:
- Good English level and academic marks
- Self-management, and critical thinking

Contact

If you are interested, please send your CV, mark records and motivation letter to

ester.gonzalez@nokia.com as soon as possible and no later than 20 September 2022.