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Image segmentation of HeLa cells with HI (Human Intelligence) and AI (Artificial Intelligence)

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Image segmentation of biomedical images has a long history and numerous algorithms for numerous applications have been developed. In recent years, deep learning techniques, like convolutional neural networks, have provided very good results, in some cases better than those of "traditional" algorithms and in other cases even better than human experts. In this presentation, we will explore the journey (which may seem a Magical Mystery Tour) of applying HI (Human Intelligence) and AI (Artificial Intelligence) to the segment HeLa cells observed with Electron Microscopy. A comparison and a discussion between techniques will be presented together with experiences along the journey.

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