Contribution ID: **129**   Type: **Use case**

AI and ML in Health: Large resource requirements for medical image analysis

Wednesday, 4 November 2020 11:35 (20 minutes)

This presentation will show results of two EU projects, notably PROCESS and ExaMode, where we work on large scale medical image analysis. The projects work on histopathology images that are increasingly becoming digital. These very large images (~100,000x100,000 pixels at 40x magnification) are produced in large quantities and require massive computational power for the development of machine learning algorithms. Particularly deep convolutional neural networks require GPUs for computation and have many memory limitations (GPUs have generally less than 32 GB of RAM). Another challenge is bandwidth for distributing the large images when developing scalable solutions.

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Session Classification: AI and Machine Learning experiences