Paper review 8DM50

Group 3  
Spasov, S., Passamonti, L., Duggento, A., Lio, P., Toschi, N., & Alzheimer's Disease Neuroimaging Initiative. (2019). A parameter-efficient deep learning approach to predict conversion from mild cognitive impairment to Alzheimer's disease. Neuroimage, 189, 276-287.

In the paper A parameter-efficient deep learning approach to predict conversion from mild cognitive impairment to Alzheimer's disease by Simeon Spasov et al. it is described that some forms of mild cognitive impairment (MCI) are the clinical precursors of Alzheimer’s disease (AD). Therefore a deep learning neural network has been created which can predict the MCI to AD conversion as well as do an AD vs. healthy controls classification. After analyzing a subset made by the Alzheimer’s Disease Neuroimaging Initiative (ADNI) (n = 785 participants, n = 192 AD, n = 409 MCI) the model was able to distinguish the MCI patients developing AD within 3 years from those with stable MCI with an accuracy of 86%.