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## Large-scale neuroimaging analysis: growth curves for the ageing brain

Friday, 8 April 2016 09:00 (20 minutes)

In this talk I will present new approaches for computer-aided diagnosis of neurodegenerative disease, based on large-scale quantitative modelling of the ageing brain. The main idea is to construct "growth" curves that characterise the distribution of MRI-derived markers in a healthy population as a function of age. These growth curves can then serve as reference charts to which patient data can be compared. I will explain the methodology, show some very recent results, and finally discuss the e-infrastructural needs for this type of research, in which thousands of MRI scans need to be processed.

<b>Speaker's biography</b>

Computer-aided diagnosis of dementia based on structural MRI were evaluated in an objective, standardised way on a large publicly available dataset.

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Session Classification: Neuroinformatics data exploitation service