

Accepted Manuscript

A discriminative feature selection approach for shape analysis:
application to fetal brain cortical folding

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PII: S1361-8415(16)30122-0
DOI: [10.1016/j.media.2016.07.005](https://doi.org/10.1016/j.media.2016.07.005)
Reference: MEDIMA 1164



To appear in: *Medical Image Analysis*

Received date: 12 June 2015
Revised date: 8 July 2016
Accepted date: 20 July 2016

Please cite this article as: J. Pontabry, F. Rousseau, C. Studholme, M. Koob, J.-L. Dietemann, A discriminative feature selection approach for shape analysis: application to fetal brain cortical folding, *Medical Image Analysis* (2016), doi: [10.1016/j.media.2016.07.005](https://doi.org/10.1016/j.media.2016.07.005)

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Highlights

- We propose a novel method for cortical folding analysis of the fetal brain.
- Most discriminative cortical points are selected by a feature selection algorithm on time-varying deformation fields.
- The method is validated on two synthetical datasets with linear and non-linear dynamics through time.
- The method is applied on an heterogeneous fetal brain population with different ages, in order to study the cortical folding patterns.

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