

# Accepted Manuscript

## A Cortical Shape-Adaptive Approach to Local Gyrification Index

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PII: S1361-8415(18)30434-1  
DOI: [10.1016/j.media.2018.06.009](https://doi.org/10.1016/j.media.2018.06.009)  
Reference: MEDIMA 1386



To appear in: *Medical Image Analysis*

Received date: 29 May 2017  
Revised date: 17 April 2018  
Accepted date: 26 June 2018

Please cite this article as: Ilwoo Lyu, Sun Hyung Kim, Jessica B. Girault, John H. Gilmore, Martin A. Styner, A Cortical Shape-Adaptive Approach to Local Gyrification Index, *Medical Image Analysis* (2018), doi: [10.1016/j.media.2018.06.009](https://doi.org/10.1016/j.media.2018.06.009)

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**Highlights**

- A cortical shape-adaptive kernel is proposed to quantify cortical folding patterns.
- The proposed method captures cortical folding in a biologically relevant way.
- A novel local gyrification achieved a high reproducibility in multi-scan dataset.
- Novel refined positive and negative age associations were found on cortical regions.

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