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Landmark-based Deep Multi-Instance Learning for Brain Disease Diagnosis

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**Highlights**

- We developed a novel deep multi-instance convolutional neural network to automatically learn both local and global representations for MR images;
- We proposed a landmark-based image patch extraction approach based on a data-driven landmark discovery algorithm;
- We trained the model on ADNI-1 and tested it on two independent datasets (i.e., ADNI-2 and MIRIAD).

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