Automatic Left Ventricle Detection from Cardiac MRI



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Purpose and Method

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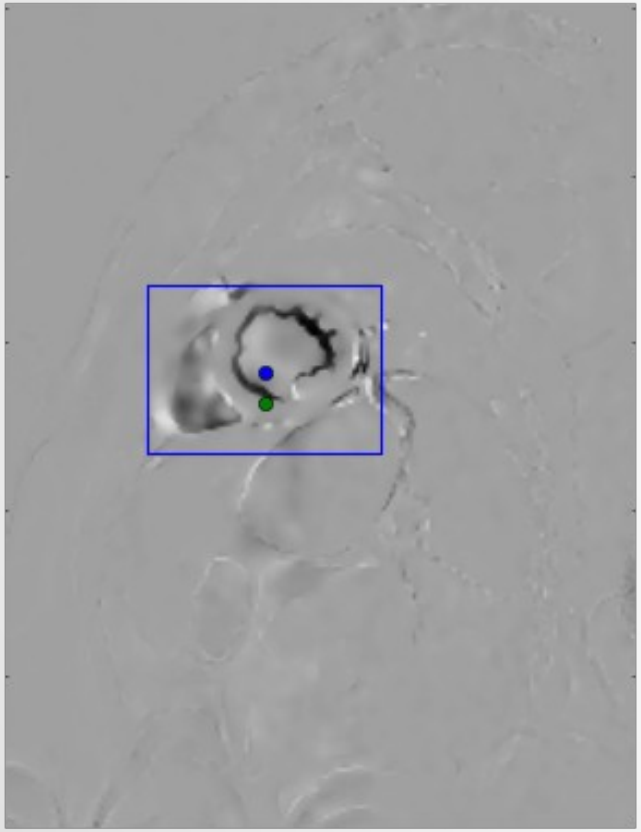
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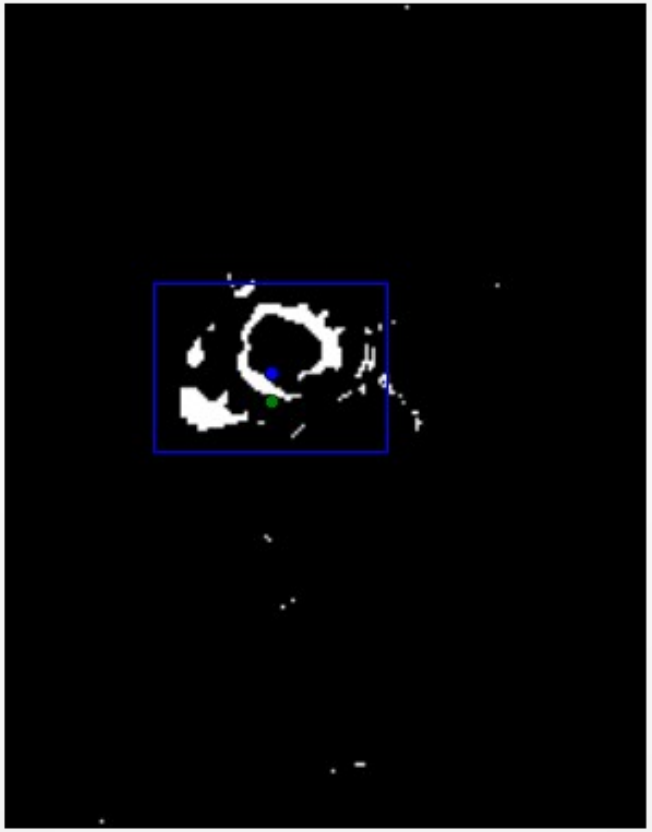
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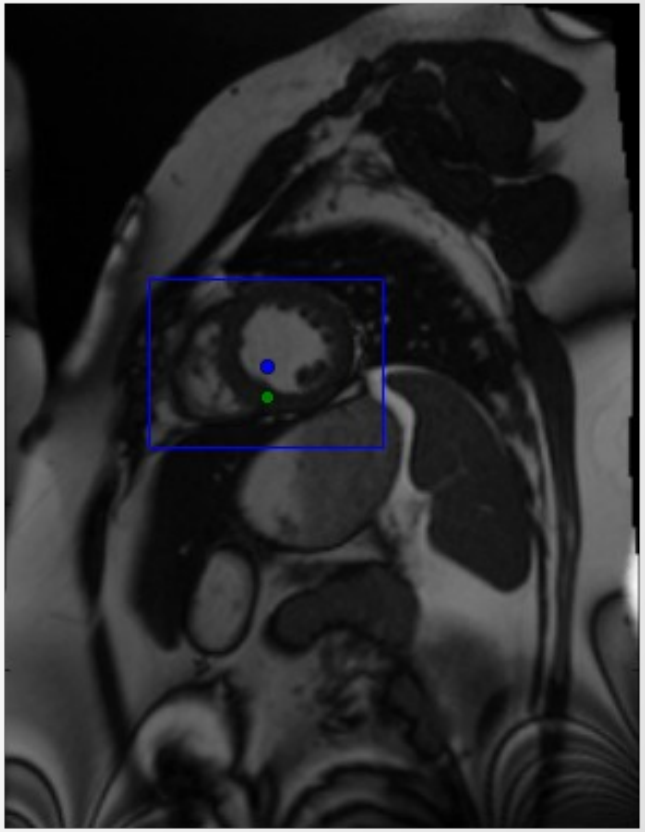
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- This requires precise segmentation of LV from cardiac MRI
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- In this study, we aim to develop automatic **detection of LV** from 4D cardiac MRI by utilizing **auto-encoder** features (deep features) and **Random Forest** classification algorithm
- We also automatically **detect heart region** first to constrain the problem into a smaller-search space

Automatic Heart Detection







Automatic LV Detection

