



iMRI Invited Session

SY14-3

## Deep Learning Methods for Cerebral Small Vessel Diseases (SVD)

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- o What is Cerebral Small Vessel Disease (SVD)?
- o Cerebral SVD Markers on MRI
- o How to Detect Cerebral SVD?
- o Literature Review on Conventional and Deep Learning-Based Methods for SVD
- o A Case Study on Identification of Different SVDs Including White Matter Hyperintensities (WMH), Lacunes, Subcortical Infraction, and Microbleeds
- o A Case Study on Detecting Cerebral Microbleeds
- o Limitations
- o Future Directions

*Keywords: Deep Learning, Cerebral Small Vessel Disease, Detection, Identification*