

ANALYSIS AND DIAGNOSIS OF CEREBRAL VENOUS SINUS THROMBOSIS

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Cerebral venous sinus thrombosis (CVST) is the presence of acute thrombosis or generally known as blood clot in the dural venous sinuses, which can drain blood from the brain. Thrombosis of the venous channels in the brain is an uncommon cause of cerebral infarction relative to arterial disease, but it is an important consideration because of its potential morbidity. Image segmentation is the process of partitioning a digital image into multiple segments for easier analyse. We here use the Random walker algorithm which is a semi-automated segmentation algorithm. With some simple user input, a high-quality image segmentation result can be obtained. Convolutional neural networks were inspired by biological processes in that the connectivity pattern between neurons resembles the organization of the animal visual cortex. Individual cortical neurons respond to stimuli only in a restricted region of the visual field known as the receptive field.