

Introduction neuroscience and neuroimaging -bridging the gap between neurons and new technologies

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ABSTRACT

The widespread adoption of artificial intelligence in medical imaging has become commonplace amidst the rapid progress of technology. In the realm of neuroscience and neuroimaging, advanced technologies like MRI, SPECT/CT, PET/CT, and EEG now leverage AI for enhanced data analysis, research, and streamlined clinical workflows. Neuroscience delves into the study of neurochemistry and experimental psychology, aiming to comprehend the functionality of neurons and other components of the brain and nervous system. Conversely, neuroimaging entails generating images that depict the structure or activity of the brain and nervous system using techniques such as MRI, CT, or EEG. This intersection allows for non-invasive exploration of the human brain's functions, employing cutting-edge technologies like computers, scanners, and software. In essence, NeuroCoB Society Malaysia serves as a collaborative platform, uniting radiologists, neuroscientists, nuclear medicine physicians, computer scientists, computer engineers, medical physicists, and imaging technologists. The emphasis is on fostering discoveries and innovations in brain imaging to map the unexplored terrain of the human brain and mind.