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Techniques for imaging in the clinical neuroscience & therapeutics

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In the last 30 years, a number of non-invasive spatial mapping techniques have been demonstrated to provide powerful insights into the operation of the brain during task performance. With the recent technological improvements in imaging devices, but also networking and computing, the data handled by researchers has remarkably evolved. For example, sophisticated imaging techniques are required to characterize the complex dynamic neuro-anatomical changes that occur over time in health and disease. These are, in order of their emergence as robust technologies: positron emission tomography, source localization with EEG and MEG, and functional magnetic resonance imaging. The imaging neuroscience study areas represented in this volume use the first or last of these – PET and fMRI. Imaging in clinical neuroscience has an impact in a variety of areas of medicine, therefore, computational skills, including multimodal analyses, signal processing and parametric

statistical modelling, are key to successful analyses. In order to apply clinical neuroscience imaging, we have to know the physical principles underlying techniques and also, the important assumptions and limitations. In this article, we will discuss the range of applications for each is briefly indicated.



Biography

Mojtaba Ansari Jafari has completed his MD at the age of 30 years from Tehran University and Medical Imaging specialist degree Studies from Tehran university of Medical Sciences, Iran. He is faculty member and the Director of Medical Imaging department in an educational hospital. He has published some papers in valuable national and international journals and had been serving as a board member of scientific imaging.

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