Titolo (provvisorio): large-scale effect of radio-frequency thermo-coagulation procedures in drug-resistant focal epileptic patients

Relatore/i: Arnulfo Gabriele

E-mail: gabriele.arnulfo@edu.unige.it

Indirizzo: Via All'Opera Pia, 13 - 16145 Genova Synapsi-Lab

Obiettivi generali e principali attività

The thesis aims at studying the effect of node disconnection performed through radio-frequency thermo-coagulation (RFTHC) in large-scale brain networks. By comparing static network properties (e.g. topology and node strengths) as well as dynamical network properties (e.g. time-varying connectivity metrics) before and after RFTHC, this thesis aims at elucidating the effect of node disconnection at the level of large-scale brain networks.

Obiettivi di apprendimento (strumenti tecnici e analitici, metodologie sperimentali)

The successful candidate will learn about advanced signal processing techniques as well as element of graph theory and critical systems. Finally the successful candidate will also improve his/her programming skills developing dedicated tools in Python/Matlab.

Luogo/i in cui si svolgerà il lavoro: DIBRIS, University of Genoa

Numero massimo di studenti: 1