Mon, February 7th, 2022, 3:00 p.m., DIBRIS – Room 705, via Dodecaneso 35, Genova.

Analysis and Learning

Brain imaging with magneto/electro-encephalography: from source localization to connectivity estimation

Abstract.

Electroencephalography and Magnetoencephalography (EEG/MEG) are two powerful techniques recording signals from the brain at a one-millisecond resolution. EEG/MEG data are very rich in information and are currently used in many contexts, ranging from basic neuroscience to clinical applications.

In this talk I will consider two intertwined problems related to the analysis of EEG/MEG data: (1) the source localization problem, amounting to estimating the neural currents underlying recorded time series; (2) the connectivity estimation problem, amounting to characterizing the interactions between spatially distinct areas.

Speaker

Alberto Sorrentino

Università di Genova

Host: Matteo Santacesaria   contact: malga.unige@gmail.com

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Alberto Sorrentino is Associate Professor of Numerical Analysis at the Mathematics Department (DIMA) of the University of Genoa, Italy, and CEO of Bayesian Estimation for Engineering Solutions, a startup recently founded as a University spinoff. His research is focused on the development of Bayesian approaches and Monte Carlo methods, with application in neuroimaging and air quality monitoring.

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