Laura Astolfi, University “La Sapienza”, Rome, Italy - *Connectivity analysis based on high density EEG recordings: application to motor and cognitive tasks in humans*

Laura Astolfi received her Master Degree in Electronic Engineering from University of Rome in 2003 and her PhD in Biomedical Engineering from University of Bologna in 2007. Currently, she is an Assistant Professor at the Department of Computer, Control, and Management Engineering at Sapienza University of Rome and a Technical Manager at Fondazione Santa Lucia Hospital, Rome, Italy. She authored 102 papers in International Peer-reviewed Journals (Scopus), 2 books and more than 100 contributions to International Schools and Conferences. Her h-index is 23 (Scopus, 29 Google Scholar), her total number of citations is 1478 (Scopus; 2843 Scholar). Her total Impact Factor is 181.358. She has served as Guest Editor for International Journals like the Journal of Physiology-Paris and Computational Intelligence and Neuroscience and is currently an Associate Editor for the International Journal of Bioelectromagnetism. She is Chair of the IEEE EMBS Technical Committee on Biomedical Signal Processing. She received several national and international awards for her scientific activity, among which the Best Under-40 Researcher Award at Sapienza University in 2010, the Trainee Travel Award by the Human Brain Mapping Society in 2011, the Young Investigator Competition by the ISBET Society in 2009, the Best PhD Thesis Award by the Italian Society for Biomedical Engineering in 2008, the Young Investigator Award by the Brain Connectivity Society in 2006, the Young Investigator Award by the International Society for Functional Source Imaging in 2005. She participated in several national (Ministry of Health, Ministry of University, Private Foundations) European (7th FPs) and US (NSF and NIH) funded research projects. She has been National Representative to 2 EU COST Actions. Her research activity include brain connectivity, high resolution EEG source reconstruction, EEG applications to neurorehabilitation, simultaneous recordings from multiple subjects (hyperscanning), consciousness, cognition and social Neuroscience.