Erratum: The following changes have been made according to the original version of my dissertation.

Title page and title back page have been modified to fit the needed formalities.

The following sentence has been added at the end of the following section:

Page 73, section 5.2.2: The investigation of this demeaning procedure has been suggested by a journal reviewer.

The following sentence has been added within a section:

Page 75, section 5.2.3, after the first break on this page (after '[...] features compared to the original time courses.'): This phase randomization procedure is done in a similar way like Allen et al. [8] has done their inconsistent Fourier phase shift, which they have investigated additionally to the above mentioned one.

The following sentences have been added at the beginning of the following sections:

Page 75, section 5.2.4: The investigations of this section are based on suggestions made by a journal reviewer.

Page 78, section 5.3: The investigations of this section are based on suggestions made by journal reviewers.

Page 79, section 5.4: The investigations of this section are based on suggestions made by journal reviewers.

The following footnote has been changed to:

Page 68, section 5.2.1, footnote 8: For the application of the Hungarian method, I rely on scripts offered by http://www.mathworks.com/matlabcentral/fileexchange/6543-functions-for-the-rectangular-assignment-problem. Using the Hungarian algorithm was suggested by a journal reviewer.

The following changes in the following figure captions have been made:

Page 38, figure 12, last sentence has been changed to: Assembled from Hornak [48] and adjusted.

Page 45, figure 13, first sentence has been changed to: This figure assembled from Hagmann et al. [43] depicts their structural connectomes with 66 (right) and 998 (left) nodes.

Page 49, figure 16, first sentence has been changed to: From Allen et al. [8] and adjusted.

Page 106, figure 48, last sentence has been changed to: Assembled from [8, 60] and adjusted.

Page 107, figure 49, last sentence has been changed to: Assembled from [8, 60] and adjusted.

Page 110, figure 50, last sentence has been changed to: Assembled from [20] and adjusted.

The following references in the bibliography have been changed to:

[20] Vince D. Calhoun, Jing Sui, Kent Kiehl, Jessica Turner, Elena Allen, and Godfrey Pearlson. Exploring the psychosis functional connectome: Aberrant intrinsic networks in schizophrenia and bipolar disorder. Frontiers in Psychiatry, 2(January):1–13, 2012. ISSN 16640640. doi: 10.3389/fpsyt.2011.00075.

[48] Joseph P. Hornak. The Basics of MRI. URL https://www.cis.rit.edu/htbooks/mri/index.html.

[76] Vincenzo Nicosia, John Tang, Cecilia Mascolo, Mirco Musolesi, Giovanni Russo, and Vito Latora. Graph Metrics for Temporal Networks. In Temporal Networks, pages 15–40. 2013. doi: 10.1007/978-3-642-36461-7_2. URL http://link.springer.com/10.1007/978-3-642-36461-7{_}}2.