

1. Articles published in peer-reviewed scientific journals

Grova C., Daunizeau J., Kobayashi E., Bagshaw A.P., Lina J.M., Dubeau F., Gotman J. Concordance between EEG source localization and simultaneous EEG/fMRI studies of epileptic spikes. *Neuroimage*, in press.

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Lu Y., Grova C., Kobayashi E., Dubeau F. and Gotman J. Using voxel-specific hemodynamic response function in EEG-fMRI data analysis: an estimation and detection mode. *Neuroimage*, 34(1):195-203, (2006)

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Reilhac A., Batan G., Michel C., Grova C., Tohka J., Collins D.L., Costes N. and Evans A.C. PET-SORTEO: Validation and Development of Database of Simulated PET Volumes. *IEEE Trans. on Nuclear Science*, 52(5) pp. 1321-1328 (2005)

Daunizeau J., Grova C., Mattout J. Marrelec G., Clonda D., Goulard B., Péligrini-Isaac M., Lina J.M. and Benali H. Assessing the relevance of fMRI based-prior in the EEG inverse problem: a Bayesian model comparison approach. *IEEE Trans. on Signal Processing*, special section on signal processing aspects of brain imaging, 53(9) pp. 3461-3472 (2005)

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Jannin P., Fleig O.J., Seigneuret E., Grova C., Morandi X., and Scarabin J.M. A Data Fusion Environment for Multimodal and Multi-Informational Neuro-Navigation, *Journal of Computer Aided Surgery*, 5(1) pp 1-10 (2000).

2. Articles submitted in peer-reviewed scientific journals

Grova C., Jannin P., Buvat I., Biraben A., Benali H., and Gibaud B. Validation of registration involving normal and pathological SPECT data using realistic simulations. *Medical Image Analysis*, under revision

4. Didactic publications (books)

Jannin P., Grova C. and Gibaud B. Medical applications of NDT data fusion, Chapter in *Applications of NDT data fusion*, Edited by Gros X.E., Kluwer academic publishers, pp. 227-267 (2001).

5. Articles in proceedings of international conferences – peer-reviewed in extenso articles

B. Aubert-Broche, C. Grova, A. Reilhac, A.C. Evans and D.L. Collins. Development of MRI and SPECT simulated databases with realistic anatomical and functional variabilities: application to SPECT/MRI registration evaluation. In *Lecture Notes in Computer Science : MICCAI 2006 Copenhagen Denmark*, Springer, vol. 4190 (1), pp. 330-337, 2006.

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Batan G., Reilhac A., Grova C., Collins D.L., Tohka J., Costes N. and Evans, A.C. A database of simulated PET volumes with anatomical variability. *Nuclear Science Symposium Conference Record*, 2004, IEEE vol 6, 16-22 Oct 2004, pp. 3699 – 3702 (2004).

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Scarabin J.M., Aubert-Broche B., Grova C., Argaud C., Schaeffer M., and Jannin P. Perfusion weighted MRI: A new tool for epilepsy surgery. In *Computer Assisted Radiology and Surgery 2002*. Edited by H.U. Lemke, M.W. Vannier, K. et al, Springer, pp361--365 (2002).

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Jannin P., Schwartz D., Grova C., Barillot C. and Gibaud B. Fusion of multimodal functional neuro-imaging (MEG, fMRI, SPECT): definition of different matching paradigms, In *Computer Assisted Radiology & Surgery 1999*, Edited by H.U. Lemke, M.W. Vannier, et al, Elsevier, pp 238-243 (1999).

7. Oral communications or posters in international conferences with proceedings (abstracts)

Grova C., Kobayashi E., Tyvaert L., Lina JM, Dubeau F, Jolicoeur P and Gotman J.

Magnetoencephalogram of interictal spike activity: correlation with BOLD responses in EEG-fMRI studies. Submitted to American Epilepsy Society conference, Philadelphia 2007

Kobayashi E, Grova C, Tanaka N, Stufflebeam S, Hämäläinen M Contribution of distributed source analyses of MEG signal to the understanding of epileptic networks in focal cortical dysplasia Submitted to American Epilepsy Society conference, Philadelphia 2007

Grova C., Lina J.M., Daunizeau J., Dubarry A.S., Gotman J. and Jolicoeur P. MEG source localization of single trial versus average data : an evaluation using realistic simulations. *Proceedings of Human Brain Mapping 2007, Chicago*, accepted.

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8. Oral communications or posters in national conferences with proceedings

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Grova C., Jannin P., Biraben A., Scarabin J. M., Buvat I., Benali H., and Gibaud B. Méthodologie de validation de méthodes de recalage TEMP/IRM à l'aide de simulations réalistes de données TEMP. 11ème Forum Des Jeunes Chercheurs En Génie Biologique et Médical, Compiègne (2001).(poster+oral presentation)