

# List of Publications

Herwig Wendt

## 1 International Journals

- [1] R. Leonarduzzi, P. Abry, H. Wendt, S. Jaffard, H. Touchette, "A Generalized Multifractal Formalism for the Estimation of Nonconcave Multifractal Spectra," 2018. *Submitted*.
- [2] H. Wendt, P. Abry, K. Kiyono, J. Hayano, E. Watanabe, Y. Yamamoto, "Wavelet p-Leader Non Gaussian Multiscale Expansions for Heart Rate Variability Analysis in Congestive Heart Failure Patients," IEEE T. Biomedical Engineering, 2018. *In press*. [.pdf](#)
- [3] H. Wendt, S. Combexelle, Y. Altmann, J.-Y. Tourneret, S. McLaughlin, P. Abry, "Multifractal analysis of multivariate images using gamma Markov random field priors," SIAM J. on Imaging Sciences (SIIMS), 2018. *In press*. [.pdf](#)
- [4] G. Valenza, H. Wendt, K. Kiyono, J. Hayano, E. Watanabe, Y. Yamamoto, P. Abry, R. Barbieri, "Multifractal Point-Process Heartbeat Dynamics: a Congestive Heart Failure Survivor Prediction Study," IEEE T. Biomedical Engineering, 2017. *In press*. [www](#) | [.pdf](#)
- [5] S. Jaffard, S. Seuret, H. Wendt, R. Leonarduzzi, S. Roux, P. Abry, "Multivariate multifractal analysis," Applied and Computational Harmonic Analysis, 2017. *In press*. [www](#) | [.pdf](#)
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- [11] N. Pustelnik, H. Wendt, P. Abry, N. Dobigeon, "Combining local regularity estimation and total variation optimization for scale-free texture segmentation," IEEE T. Computational Imaging, vol. 2, no. 4, pp. 468–479, 2016. [.pdf](#)
- [12] T. Nakamura, K. Kiyono, H. Wendt, P. Abry, Y. Yamamoto, "Multiscale Analysis of Intensive Longitudinal Biomedical Signals and its Clinical Applications," Proc. IEEE, vol. 104, no. 2, pp. 242–261, 2016. [www](#)

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## 2 National Journals

- [29] H. Wendt, P. Abry, S.G. Roux, S. Jaffard, B. Vedel, “Analyse multifractale d’image: l’apport des coefficients dominants,” *Revue Traitement du Signal*, vol. 25, no. 4–5, 2009. [.pdf](#)

## 3 International Conferences with Selection Panels

- [30] K. Basinet, A. Klein, P. Abry, S. G. Roux, H. Wendt, P. Messier, “Performance of two multiscale texture algorithms in classifying silver gelatine paper via k-nearest neighbors,” *IEEE Int. Conf. Image Proces. (ICIP)*, Athens, Greece, Oct. 2018.
- [31] H. Wendt, D. Fagot, C. Fevotte “Jacobi Algorithm for Nonnegative Matrix Factorization with Transform Learning,” *European Signal Processing Conference (EUSIPCO)*, Rome (Italy), Sept. 2018.
- [32] D. La Rocca, P. Ciuciu, V. van Wassenhove, H. Wendt, P. Abry, R. Leonarduzzi, “Scale-free Functional Connectivity Analysis from Source Reconstructed MEG Data,” *European Signal Processing Conference (EUSIPCO)*, Rome (Italy), Sept. 2018.
- [33] R. Leonarduzzi, P. Abry, S. G. Roux, H. Wendt, S. Jaffard, S. Seuret, “Multifractal Characterization for Bivariate Data,” *European Signal Processing Conference (EUSIPCO)*, Rome (Italy), Sept. 2018.
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## 4 National Conferences with Selection Panels

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