



Prof. Laurent Ferro-Famil

University of Rennes 1
Campus de Beaulieu - Bat. 11D
263 Avenue Général Leclerc,
35042 Rennes Cedex
www.ietr.fr
[Laurent.Ferro-Famil \(at\) univ-rennes1.fr](mailto:Laurent.Ferro-Famil@univ-rennes1.fr)

Background

Laurent Ferro-Famil received the M.S. degree in electronic systems and computer engineering and the Ph.D. degree from the University of Nantes, Nantes, France, in 1996 and 2000, respectively. In 2001, he became an Associate Professor with the University of Rennes 1, Rennes, France. Since 2011, he has been a Full Professor with the University of Rennes 1, where he is currently the Head of the Waves and Signals Department, Institute of Electronics and Telecommunications of Rennes.

His current activities in education are concerned with analog electronics, digital communications, microwave theory, signal processing, and polarimetric SAR remote sensing. His research interests include polarimetric SAR signal statistical processing, radar polarimetry theory, and natural media remote sensing using multibaseline PolInSAR data, with application to classification, electromagnetic scattering modeling and physical parameter retrieval, time-frequency analysis, and 3-D reconstruction of environments using tomography.

5 recent publications

R. Paladini, L. Ferro Famil, E. Pottier, M. Martorella, F. Berizzi and E. Dalle Mese, "Point Target Classification via Fast Lossless and Sufficient – – Invariant Decomposition of High-Resolution and Fully Polarimetric SAR/ISAR Data," in *Proceedings of the IEEE*, vol. 101, no. 3, pp. 798-830, March 2013.

W. Wu, H. Guo, X. Li, L. Ferro-Famil and L. Zhang, "Urban Land Use Information Extraction Using the Ultrahigh-Resolution Chinese Airborne SAR Imagery," in *IEEE Transactions on Geoscience and Remote Sensing*, vol. 53, no. 10, pp. 5583-5599, Oct. 2015.

T. G. Yitayew, L. Ferro-Famil, T. Eltoft and S. Tebaldini, "Tomographic Imaging of Fjord Ice Using a Very High Resolution Ground-Based SAR System," in *IEEE Transactions on Geoscience and Remote Sensing*, vol. 55, no. 2, pp. 698-714, Feb. 2017.

S. Tebaldini, F. Rocca, M. Mariotti d'Alessandro and L. Ferro-Famil, "Phase Calibration of Airborne Tomographic SAR Data via Phase Center Double Localization," in *IEEE Transactions on Geoscience and Remote Sensing*, vol. 54, no. 3, pp. 1775-1792, March 2016.

Y. Huang, J. Levy-Vehel, L. Ferro-Famil and A. Reigber, "Three-Dimensional Imaging of Objects Concealed Below a Forest Canopy Using SAR Tomography at L-Band and Wavelet-Based Sparse Estimation," in *IEEE Geoscience and Remote Sensing Letters*, vol. 14, no. 9, pp. 1454-1458, Sept. 2017.