

- Journal **T. Feuillen**, M. E. Davies, L. Vandendorpe & L. Jacques. "*(I1, I2)-RIP and Projected Back-Projection Reconstruction for Phase-Only Measurements*" IEEE Signal Processing Letters, 2020
- Journal **T. Feuillen**, T. Paireon, C. Craeye, & L. Vandendorpe. "*Localization of Rotating Targets Using a Monochromatic Continuous-Wave Radar.*" IEEE Antennas and Wireless Propagation Letters, 2017
- Conference **T. Feuillen**, M. Alae-Kerahroodi, A. Bhandari, B. Mysore RR, B. Ottersten "*FMCW Radar via Unlimited Sampling: From Theory to Practice*", presented as a "show and tell" demo at 2022 IEEE ICASSP
- Conference **T. Feuillen**, M. Alae-Kerahroodi, A. Bhandari, B. Mysore RR, B. Ottersten "*Unlimited Sampling for FMCW Radars: A Proof of Concept*", presented at 2022 IEEE Radar Conference (RadarConf22)
- Conference G. M de Galland, **T. Feuillen**, L. Vandendorpe, L. Jacques, "*Sparse factorization-based detection of off-the-grid moving targets using fmcw radars*", presented at 2021 IEEE ICASSP
- Conference G. M de Galland, **T. Feuillen**, L. Vandendorpe, L. Jacques, "*Going Below and Beyond Off-the-Grid Velocity Estimation from 1-bit Radar Measurements*", presented at 2019 IEEE RadarConf
- Conference G. M de Galland, **T. Feuillen**, L. Jacques, L. Vandendorpe. "*Sparsity-driven moving target detection in distributed multistatic FMCW radars*", presented at 2019 IEEE CAMSAP
- Conference M. Drouguet, **T. Feuillen**, C. Raucy, L. Vandendorpe, C. Craeye, D. Dardari, N. Decarli, D. Fabbri, A. Guerra, M. Fantuzzi, D. Masotti, A. Costanzo & A. Romani, "*An Ultra-wideband Battery-less Positioning System for Space Applications*", presented at 2019 IEEE RFID-TA
- Conference **T. Feuillen**, C. Xu, J. Louveaux, L. Vandendorpe, L. Jacques "*Quantity over Quality: Dithered Quantization for Compressive Radar Systems*", invited paper at RadarConf 2019
- Conference **T. Feuillen**, C. Xu, L. Vandendorpe, L. Jacques "*1-bit Localization Scheme for Radar using Dithered Quantized Compressed Sensing*", presented at COSERA 2018, arXiv:1806.05408
- Conference **T. Feuillen**, A. Mallat, & L. Vandendorpe. "*Stepped frequency radar for automotive application: Range-Doppler coupling and distortions analysis.*" Military Communications Conference, MILCOM 2016 IEEE
- Workshop **T. Feuillen**, M.E. Davies, L. Vandendorpe, L. Jacques "*One Bit to Rule Them All : Binarizing the Reconstruction in 1-bit Compressive Sensing*", accepted at ITWIST 2020
- Workshop L. Jacques, **T. Feuillen**, "*Keep the phase! Signal recovery in phase-only compressive sensing*", presented at ITWIST 2020
- Workshop **T. Feuillen**, L. Vandendorpe, L. Jacques "*An extreme bit-rate reduction scheme for 2D radar localization*", presented at ITWIST 2018

Reviewer

- Journal AWPL 2020, TSP 2020
- Conference RadarConf 2018, ITWIST 2018-2020, EUSIPCO 2020

Scientific Training

- Summer School International Radar Summer school 2017, ITWIST2018, ESOA course on Digital Radar at KIT 2018, RadarConf summer school 2019
- Other European Space Agency course Echoes in Space MOOC on Radar Remote Sensing

Teaching

- Telecom AM, FM, QPSK, OFDM, at bachelor and master level, exercise and laboratory sessions using USRPs.
- Electricity Basics of analogical circuits, at bachelor level, exercise sessions and laboratories.

Radar	Ultra-Wide-Band, FMCW radar, Beamforming, at bachelor level, project with lectures and laboratories.
Signal Proc	Fourier theory, Filtering, at bachelor level, exercise sessions.
Embedded Electronics	Project using programmable UAVs and sensors, at master level, lectures, exercises sessions and laboratories.

Master Thesis Supervision

2019-2020	<i>Formation of high resolution images via Synthetic Aperture Radar embedded on satellite</i> , Cyril Wain, in collaboration with AerospaceLab.
2018-2019	<i>Analysis of a channel of communication for on-board Drone transmission with SDR processing</i> , Dylan Feron.
2018-2019	<i>Sparsity-driven moving target detection in distributed multistatic FMCW radars</i> , Gilles Monnoyer de Galland de Carnières.
2018-2019	<i>Synthetic aperture radar at small scale</i> , Adrien Delhay & Marie-Pierre van Oldeneel tot Oldenzeel.
2016-2017	<i>Radar target classification based on micro-Doppler signature analysis</i> , Jean Léger.

Skills

Software

Language	C, Matlab, Python
Environment	Eclipse, Labview, Mbed, Jupyter
OS	Linux, Windows

Hardware

RF	Basic knowledge of antenna theory, RF components, radar measurements, anechoic chamber
System	Systems synchronization and interface, real-time processing

Language

French	Mother tongue
English	Full professional proficiency
Arabic	Basic
Spanish	Notions
German	Notions

Hobbies

Guitar, Movies, Discovering new cultures and languages, Traveling, Books and Trekking