Jerome Antoni

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Rolling element bearing diagnostics—A tutorial. Mechanical Systems and Signal Processing, 2011, 25, 485-520. | 8.0 | 1,812 |
| 2 | Fast computation of the kurtogram for the detection of transient faults. Mechanical Systems and Signal Processing, 2007, 21, 108-124. | 8.0 | 1,135 |
| 3 | The spectral kurtosis: a useful tool for characterising non-stationary signals. Mechanical Systems and Signal Processing, 2006, 20, 282-307. | 8.0 | 989 |
| 4 | The spectral kurtosis: application to the vibratory surveillance and diagnostics of rotating machines. Mechanical Systems and Signal Processing, 2006, 20, 308-331. | 8.0 | 978 |
| 5 | Cyclostationarity by examples. Mechanical Systems and Signal Processing, 2009, 23, 987-1036. | 8.0 | 497 |
| 6 | The infogram: Entropic evidence of the signature of repetitive transients. Mechanical Systems and Signal Processing, 2016, 74, 73-94. | 8.0 | 438 |
| 7 | Cyclic spectral analysis in practice. Mechanical Systems and Signal Processing, 2007, 21, 597-630. | 8.0 | 285 |
| 8 | Fast computation of the spectral correlation. Mechanical Systems and Signal Processing, 2017, 92, 248-277. | 8.0 | 249 |
| 9 | Blind separation of vibration components: Principles and demonstrations. Mechanical Systems and Signal Processing, 2005, 19, 1166-1180. | 8.0 | 243 |
| 10 | Blind deconvolution based on cyclostationarity maximization and its application to fault identification. Journal of Sound and Vibration, 2018, 432, 569-601. | 3.9 | 164 |
| 11 | A two-step procedure for estimation of instantaneous rotational speed with large fluctuations. Mechanical Systems and Signal Processing, 2013, 38, 96-102. | 8.0 | 140 |
| 12 | A Bayesian approach to sound source reconstruction: Optimal basis, regularization, and focusing. Journal of the Acoustical Society of America, 2012, 131, 2873-2890. | 1.1 | 139 |
| 13 | Indicators of cyclostationarity: Theory and application to gear fault monitoring. Mechanical Systems and Signal Processing, 2008, 22, 574-587. | 8.0 | 135 |
| 14 | A statistical methodology for the design of condition indicators. Mechanical Systems and Signal Processing, 2019, 114, 290-327. | 8.0 | 126 |
| 15 | Blind filters based on envelope spectrum sparsity indicators for bearing and gear vibration-based condition monitoring. Mechanical Systems and Signal Processing, 2020, 138, 106556. | 8.0 | 100 |
| 16 | A multi-order probabilistic approach for Instantaneous Angular Speed tracking debriefing of the CMMNO× ³ 14 diagnosis contest. Mechanical Systems and Signal Processing, 2016, 81, 375-386. | 8.0 | 91 |
| 17 | Review and comparison of tacholess instantaneous speed estimation methods on experimental vibration data. Mechanical Systems and Signal Processing, 2019, 129, 407-436. | 8.0 | 88 |
| 18 | Detection of Surface Ships From Interception of Cyclostationary Signature With the Cyclic Modulation Coherence. IEEE Journal of Oceanic Engineering, 2012, 37, 478-493. | 3.8 | 85 |

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|----|---|------|-----------|
| 19 | Feedback on the Surveillance 8 challenge: Vibration-based diagnosis of a Safran aircraft engine. Mechanical Systems and Signal Processing, 2017, 97, 112-144. | 8.0 | 82 |
| 20 | Improved Envelope Spectrum via Feature Optimisation-gram (IESFOgram): A novel tool for rolling element bearing diagnostics under non-stationary operating conditions. Mechanical Systems and Signal Processing, 2020, 144, 106891. | 8.0 | 82 |
| 21 | Vibration based condition monitoring of a multistage epicyclic gearbox in lifting cranes. Mechanical Systems and Signal Processing, 2014, 42, 351-367. | 8.0 | 67 |
| 22 | Angle <mml:math <br="" altimg="si1.gif" xmlns:mml="http://www.w3.org/1998/Math/MathML">overflow="scroll"><mml:mrow><mml:mo>â§1</mml:mo></mml:mrow></mml:math> time cyclostationarity for the analysis of rolling element bearing vibrations. Measurement: Journal of the International Measurement Confederation, 2015, 75, 29-39. | 5.0 | 60 |
| 23 | Semi-automated diagnosis of bearing faults based on a hidden Markov model of the vibration signals. Measurement: Journal of the International Measurement Confederation, 2018, 127, 141-166. | 5.0 | 55 |
| 24 | Detection of signal component modulations using modulation intensity distribution. Mechanical Systems and Signal Processing, 2012, 28, 399-413. | 8.0 | 49 |
| 25 | A subspace method for the blind extraction of a cyclostationary source: Application to rolling element bearing diagnostics. Mechanical Systems and Signal Processing, 2005, 19, 1245-1259. | 8.0 | 47 |
| 26 | Sparse acoustical holography from iterated Bayesian focusing. Journal of Sound and Vibration, 2019, 446, 289-325. | 3.9 | 43 |
| 27 | Blind extraction of a cyclostationary signal using reduced-rank cyclic regression—A unifying approach. Mechanical Systems and Signal Processing, 2008, 22, 520-541. | 8.0 | 40 |
| 28 | Investigation of Rotor Wake Turbulence Through Cyclostationary Spectral Analysis. AIAA Journal, 2009, 47, 2022-2030. | 2.6 | 40 |
| 29 | Cyclostationary approach to detect flow-induced effects on vibration signals from centrifugal pumps. Mechanical Systems and Signal Processing, 2019, 114, 275-289. | 8.0 | 38 |
| 30 | Acoustic source identification: Experimenting the â""1 minimization approach. Applied Acoustics, 2013, 74, 974-986. | 3.3 | 35 |
| 31 | Fast iteration algorithms for implementing the acoustic beamforming of non-synchronous measurements. Mechanical Systems and Signal Processing, 2019, 134, 106309. | 8.0 | 32 |
| 32 | The Enkurgram: A characteristic frequency extraction method for fluid machinery based on multi-band demodulation strategy. Mechanical Systems and Signal Processing, 2021, 155, 107564. | 8.0 | 31 |
| 33 | Estimation of multiple sound sources with data and model uncertainties using the EM and evidential EM algorithms. Mechanical Systems and Signal Processing, 2016, 66-67, 159-177. | 8.0 | 29 |
| 34 | Iterative beamforming for identification of multiple broadband sound sources. Journal of Sound and Vibration, 2016, 365, 260-275. | 3.9 | 27 |
| 35 | The spectral amplitude modulation: A nonlinear filtering process for diagnosis of rolling element bearings. Mechanical Systems and Signal Processing, 2019, 132, 253-276. | 8.0 | 27 |
| 36 | Fault Diagnosis of Wheelset Bearings in High-Speed Trains Using Logarithmic Short-Time Fourier Transform and Modified Self-Calibrated Residual Network. IEEE Transactions on Industrial Informatics, 2022, 18, 7285-7295. | 11.3 | 27 |

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| 37 | Integrated modulation intensity distribution as a practical tool for condition monitoring. Applied Acoustics, 2014, 77, 184-194. | 3.3 | 24 |
| 38 | Interpretation and generalization of complexity pursuit for the blind separation of modal contributions. Mechanical Systems and Signal Processing, 2017, 85, 773-788. | 8.0 | 24 |
| 39 | Extraction and imaging of aerodynamically generated sound field of rotor blades in the wind tunnel test. Mechanical Systems and Signal Processing, 2019, 116, 1017-1028. | 8.0 | 22 |
| 40 | Generalized spectral coherence for cyclostationary signals with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"> <mml:mrow> <mml:mi>î±</mml:mi> </mml:mrow> -stable distribution. Mechanical Systems and Signal Processing, 2021, 159, 107737.</mml:math | 8.0 | 22 |
| 41 | The acoustic inverse problem in the framework of alternating direction method of multipliers. Mechanical Systems and Signal Processing, 2021, 149, 107220. | 8.0 | 20 |
| 42 | Self-running bearing diagnosis based on scalar indicator using fast order frequency spectral coherence. Measurement: Journal of the International Measurement Confederation, 2019, 138, 467-484. | 5.0 | 19 |
| 43 | Infogram performance analysis and its enhancement for bearings diagnostics in presence of non-Gaussian noise. Mechanical Systems and Signal Processing, 2022, 170, 108764. | 8.0 | 19 |
| 44 | Multi-harmonic phase demodulation method for instantaneous angular speed estimation using harmonic weighting. Mechanical Systems and Signal Processing, 2022, 167, 108533. | 8.0 | 18 |
| 45 | Non-intrusive rattle noise detection in non-stationary conditions by an angle/time cyclostationary approach. Journal of Sound and Vibration, 2016, 366, 501-513. | 3.9 | 17 |
| 46 | Mean Shift Clustering-Based Analysis of Nonstationary Vibration Signals for Machinery Diagnostics. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4056-4066. | 4.7 | 15 |
| 47 | A probabilistic approach for cross-spectral matrix denoising: Benchmarking with some recent methods. Journal of the Acoustical Society of America, 2020, 147, 3108-3123. | 1.1 | 15 |
| 48 | Extraction of second-order cyclostationary sources by matching instantaneous power spectrum with stochastic model – application to wind turbine gearbox. Renewable Energy, 2020, 147, 1739-1758. | 8.9 | 13 |
| 49 | A Critical Overview of the "Filterbank-Feature-Decision―Methodology in Machine Condition Monitoring. Acoustics Australia, 2021, 49, 177-184. | 2.4 | 13 |
| 50 | Mapping uncertainties involved in sound source reconstruction with a cross-spectral-matrix-based Gibbs sampler. Journal of the Acoustical Society of America, 2019, 146, 4947-4961. | 1.1 | 12 |
| 51 | Time-Angle Periodically Correlated Processes. Lecture Notes in Mechanical Engineering, 2014, , 3-14. | 0.4 | 12 |
| 52 | Separation and identification of structural modes in largely underdetermined scenarios using frequency banding. Journal of Sound and Vibration, 2018, 414, 192-217. | 3.9 | 11 |
| 53 | Orthogonal-like fractional-octave-band filters. Journal of the Acoustical Society of America, 2010, 127, 884-895. | 1.1 | 10 |
| 54 | Bayesian space-frequency separation of wide-band sound sources by a hierarchical approach. Journal of the Acoustical Society of America, 2012, 132, 3240-3250. | 1.1 | 10 |

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| 55 | Speed Transform, a New Time-Varying Frequency Analysis Technique. Lecture Notes in Mechanical Engineering, 2014, , 23-35. | 0.4 | 10 |
| 56 | Reconstruction of cyclostationary sound source based on a back-propagating cyclic wiener filter. Journal of Sound and Vibration, 2019, 442, 787-799. | 3.9 | 10 |
| 57 | Wavelet-based non-stationary near-field acoustical holography. Applied Acoustics, 2013, 74, 1226-1233. | 3.3 | 9 |
| 58 | Standalone Extraction of Tonal Components from Aeroacoustic Signals. AIAA Journal, 2022, 60, 844-859. | 2.6 | 7 |
| 59 | Stand-Alone Extraction of Cyclostationary Broadband Components from Aeroacoustic Signals. AIAA Journal, 2022, 60, 1817-1832. | 2.6 | 7 |
| 60 | Bearing Signal Enhancement Using Taylor- <inline-formula> <tex-math notation="LaTeX">\$H_{infty}\$ </tex-math> </inline-formula> Estimator Under Variable Speed Condition. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2538-2547. | 4.7 | 5 |
| 61 | Low-rank and sparse model: A new perspective for rolling element bearing diagnosis. , 2018, , . | | 4 |
| 62 | An Improved Key-Phase-Free Blade Tip-Timing Technique for Nonstationary Test Conditions and Its Application on Large-Scale Centrifugal Compressor Blades. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-16. | 4.7 | 4 |
| 63 | A Bayesian approach to eliminate correlated noise using an independent reference—Application to supersonic jet noise extraction. Journal of the Acoustical Society of America, 2021, 150, 1844-1855. | 1.1 | 4 |
| 64 | Low-rank Gaussian mixture modeling of space-snapshot representation of microphone array measurements for acoustic imaging in a complex noisy environment. Mechanical Systems and Signal Processing, 2022, 165, 108294. | 8.0 | 4 |
| 65 | Filtered evelope spectrum using short periodograms for bearing fault identification under variable speed. Mechanisms and Machine Science, 2019, , 4157-4166. | 0.5 | 2 |
| 66 | Sound Source Localization from Uncertain Information Using the Evidential EM Algorithm. Lecture Notes in Computer Science, 2013, , 162-175. | 1.3 | 2 |
| 67 | Key-Phase-Free Blade Tip-Timing for Nonstationary Test Conditions: An Improved Algorithm for the Vibration Monitoring of a SAFRAN Turbomachine from the Surveillance 9 International Conference Contest. Machines, 2021, 9, 235. | 2.2 | 2 |
| 68 | Robust Spectral Peaks Detection in Vibration and Acoustic Signals. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-13. | 4.7 | 2 |
| 69 | A Bayesian approach for the separation of the acoustic and the correlated aerodynamic wall pressure fluctuations. Journal of the Acoustical Society of America, 2021, 149, 4410-4421. | 1.1 | 1 |
| 70 | Applied Digital Signal Processing. , 2020, , 1-81. | | 1 |
| 71 | Cavitation Characterization of Fluid Machinery Based on Cyclostationary Analysis: Part I-Cavity Type Identification by Carrier Distribution. Journal of Fluids Engineering, Transactions of the ASME, 2022, , | 1.5 | 1 |
| 72 | Data-driven identification of rotating machines using ARMA deterministic parameter evolution in the angle/time domain. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1. | 1.6 | 0 |

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|----|--|-----|-----------|
| 73 | Prediction and analysis of excitation sources of car booming noise through a Bayesian meta-model. Journal of Sound and Vibration, 2021, 510, 116228. | 3.9 | 0 |
| 74 | Applied Digital Signal Processing. , 2022, , 1-81. | | 0 |
| 75 | Cavitation Characterization of Fluid Machinery Based On Cyclostationary Analysis: Part 2-Cavity Development Evaluation by Modulation Intensity. Journal of Fluids Engineering, Transactions of the ASME, 2022, , . | 1.5 | 0 |
| 76 | A reference-free mill monitoring method based on the inter-insert periodic correlation in angular domain. International Journal of Advanced Manufacturing Technology, 0, , . | 3.0 | 0 |
| 77 | Applied Digital Signal Processing. , 2022, , 149-228. | | 0 |