# Laurent Oudre

List of Publications by Year
in descending order

| 40 papers | 791 citations | 933447 10 h-index | 580821 25 g-index |
|---|---|---|---|
| 43 all docs | 43 docs citations | 43 times ranked | 697 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Preventing falls: the use of machine learning for the prediction of future falls in individuals without history of fall. Journal of Neurology, 2023, 270, 618-631. | 3.6 | 15 |
| 2 | Tensor Convolutional Dictionary Learning With CP Low-Rank Activations. IEEE Transactions on Signal Processing, 2022, 70, 785-796. | 5.3 | 1 |
| 3 | An Uncertainty Principle for Lowband Graph Signals. IEEE Signal Processing Letters, 2022, 29, 727-731. | 3.6 | 2 |
| 4 | A topological data analysis-based method for gait signals with an application to the study of multiple sclerosis. PLoS ONE, 2022, 17, e0268475. | 2.5 | 4 |
| 5 | Adaptive Subsampling of Multidomain Signals with Product Graphs. , 2021, , . | | 4 |
| 6 | Learning spatial filters from EEG signals with Graph Signal Processing methods. , 2021, 2021, 657-660. | | 1 |
| 7 | Adaptive Change-Point Detection for Studying Human Locomotion. , 2021, 2021, 2020-2024. | | 2 |
| 8 | Assessing Smoothness of Arm Movements With Jerk: A Comparison of Laterality, Contraction Mode and Plane of Elevation. A Pilot Study. Frontiers in Bioengineering and Biotechnology, 2021, 9, 782740. | 4.1 | 3 |
| 9 | Selective review of offline change point detection methods. Signal Processing, 2020, 167, 107299. | 3.7 | 486 |
| 10 | Apprenticeship Learning for a Predictive State Representation of Anesthesia. IEEE Transactions on Biomedical Engineering, 2020, 67, 2052-2063. | 4.2 | 2 |
| 11 | The Use of Inertial Measurement Units for the Study of Free Living Environment Activity Assessment: A Literature Review. Sensors, 2020, 20, 5625. | 3.8 | 18 |
| 12 | An opinion paper on the maintenance of robustness: Towards a multimodal and intergenerational approach using digital twins. Aging Medicine (Milton (N S W)), 2020, 3, 188-194. | 2.1 | 4 |
| 13 | Low Rank Activations for Tensor-Based Convolutional Sparse Coding. , 2020, , . | | 2 |
| 14 | Personalized Template-Based Step Detection From Inertial Measurement Units Signals in Multiple Sclerosis. Frontiers in Neurology, 2020, 11, 261. | 2.4 | 12 |
| 15 | Motor style at rest and during locomotion in humans. Journal of Neurophysiology, 2020, 123, 2269-2284. | 1.8 | 4 |
| 16 | Non-Linear Template-Based Approach for the Study of Locomotion. Sensors, 2020, 20, 1939. | 3.8 | 10 |
| 17 | Comparing Gait Trials with Greedy Template Matching. Sensors, 2019, 19, 3089. | 3.8 | 6 |
| 18 | Supervised Kernel Change Point Detection with Partial Annotations. , 2019, , . | | 3 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Learning Laplacian Matrix from Bandlimited Graph Signals. , 2019, , . | | 13 |
| 20 | Subsampling of Multivariate Time-Vertex Graph Signals. , 2019, , . | | 2 |
| 21 | Greedy Kernel Change-Point Detection. IEEE Transactions on Signal Processing, 2019, 67, 6204-6214. | 5.3 | 8 |
| 22 | Template-Based Step Detection with Inertial Measurement Units. Sensors, 2018, 18, 4033. | 3.8 | 23 |
| 23 | Feature Trajectories Selection for Video Stabilization. , 2018, , . | | 0 |
| 24 | A performance evaluation framework for video stabilization methods. , 2018, , . | | 6 |
| 25 | Template-DTW based on inertial signals: Preliminary results for step characterization. , 2017, 2017, 2267-2270. | | 8 |
| 26 | Observational Study of 180Â° Turning Strategies Using Inertial Measurement Units and Fall Risk in Poststroke Hemiparetic Patients. Frontiers in Neurology, 2017, 8, 194. | 2.4 | 17 |
| 27 | An Automated Recording Method in Clinical Consultation to Rate the Limp in Lower Limb Osteoarthritis. PLoS ONE, 2016, 11, e0164975. | 2.5 | 23 |
| 28 | Quantify osteoarthritis gait at the doctorâ€™s office: a simple pelvis accelerometer based method independent from footwear and aging. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 1880-1881. | 1.6 | 9 |
| 29 | OPTIMIZATION OF THE COST FUNCTION IN THE MONGE-KANTOROVICH PROBLEM (MKP) UNDER THE MONGE CONDITION. International Journal of Pattern Recognition and Artificial Intelligence, 2014, 28, 1451006. | 1.2 | 0 |
| 30 | SVELTE: Evaluation device of energy expenditure and physical condition for the prevention and treatment of obesity-related diseases through the analysis of a person's physical activities. Irbm, 2013, 34, 108-112. | 5.6 | 2 |
| 31 | IPOL: Reviewed publication and public testing of research software. , 2012, , . | | 2 |
| 32 | Classification of Periodic Activities Using the Wasserstein Distance. IEEE Transactions on Biomedical Engineering, 2012, 59, 1610-1619. | 4.2 | 20 |
| 33 | Probabilistic Template-Based Chord Recognition. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 2249-2259. | 3.2 | 9 |
| 34 | Chord Recognition by Fitting Rescaled Chroma Vectors to Chord Templates. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 2222-2233. | 3.2 | 16 |
| 35 | Probabilistic framework for template-based chord recognition. , 2010, , . | | 3 |
| 36 | Chord recognition using measures of fit, chord templates and filtering methods. , 2009, , . | | 10 |

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|---|---------|----|-----------|
| 37 | Image fusion using optimisation of statistical measurements. , 2008, , 251-272. | | 0 |
| 38 | Automatic Detection and Removal of Impulsive Noise in Audio Signals. Image Processing on Line, 0, 5, 267-281. | 0.0 | 16 |
| 39 | Interpolation of Missing Samples in Sound Signals Based on Autoregressive Modeling. Image Processing on Line, 0, 8, 329-344. | 0.0 | 10 |
| 40 | A Data Set for the Study of Human Locomotion with Inertial Measurements Units. Image Processing on Line, 0, 9, 381-390. | 0.0 | 10 |