

Sofie Van Hoecke

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41 papers	482 citations	9 h-index	21 g-index
46 ext. papers	632 ext. citations	4.1 avg, IF	4.13 L-index

#	Paper	IF	Citations
41	An Incremental Grey-Box Current Regression Model for Anomaly Detection of Resistance Mash Seam Welding in Steel Mills. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 913	2.6	0
40	Prediction of follower jumps in cam-follower mechanisms: The benefit of using physics-inspired features in recurrent neural networks. <i>Mechanical Systems and Signal Processing</i> , 2022 , 166, 108453	7.8	3
39	Event-Driven Dashboarding and Feedback for Improved Event Detection in Predictive Maintenance Applications. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10371	2.6	0
38	FLAGS: A methodology for adaptive anomaly detection and root cause analysis on sensor data streams by fusing expert knowledge with machine learning. <i>Future Generation Computer Systems</i> , 2021 , 116, 30-48	7.5	13
37	Physics-Based Neural Network Models for Prediction of Cam-Follower Dynamics Beyond Nominal Operations. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	2
36	Bayesian Convolutional Neural Networks for Remaining Useful Life Prognostics of Solenoid Valves With Uncertainty Estimations. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 8418-8428	11.9	5
35	Neural Network Augmented Physics Models for Systems with Partially Unknown Dynamics: Application to Slider-Crank Mechanism. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1	5.5	5
34	A Complete Software Stack for IoT Time-Series Analysis that Combines Semantics and Machine Learning Lessons Learned from the Dyversify Project. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11932	2.6	1
33	Data-Driven Prognostics of Alternating Current Solenoid Valves 2020 ,		2
32	A Dynamic Dashboarding Application for Fleet Monitoring Using Semantic Web of Things Technologies. <i>Sensors</i> , 2020 , 20,	3.8	7
31	A generalized matrix profile framework with support for contextual series analysis. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 90, 103487	7.2	6
30	Mining Recurring Patterns in Real-Valued Time Series using the Radius Profile 2020 ,		2
29	Unsupervised Anomaly Detection for Communication Networks: An Autoencoder Approach. <i>Communications in Computer and Information Science</i> , 2020 , 160-172	0.3	
28	Implications of Z-Normalization in the Matrix Profile. <i>Lecture Notes in Computer Science</i> , 2020 , 95-118	0.9	3
27	Scalable Fleet Monitoring and Visualization for Smart Machine Maintenance and Industrial IoT Applications. <i>Sensors</i> , 2020 , 20,	3.8	18
26	A Convolutional Neural Network Aided Physical Model Improvement for AC Solenoid Valves Diagnosis 2019 ,		4
25	Eliminating Noise in the Matrix Profile 2019 ,		3

24	Hybrid derivative functions for identification of unknown loads and physical parameters with application on slider-crank mechanism 2019 ,		1
23	Smart Machine Maintenance Enabled by a Condition Monitoring Living Lab. <i>IFAC-PapersOnLine</i> , 2019 , 52, 376-381	0.7	1
22	Thermal Imaging and Vibration-Based Multisensor Fault Detection for Rotating Machinery. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 434-444	11.9	37
21	Extended FTLD pedigree segregating a Belgian GRN-null mutation: neuropathological heterogeneity in one family. <i>Alzheimer's Research and Therapy</i> , 2018 , 10, 7	9	6
20	Deep Learning for Infrared Thermal Image Based Machine Health Monitoring. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 151-159	5.5	94
19	The efficacy of the Friendly Attac serious digital game to promote prosocial bystander behavior in cyberbullying among young adolescents: A cluster-randomized controlled trial. <i>Computers in Human Behavior</i> , 2018 , 78, 336-347	7.7	42
18	Psychometric data of a questionnaire to measure cyberbullying bystander behavior and its behavioral determinants among adolescents. <i>Data in Brief</i> , 2018 , 18, 1588-1595	1.2	6
17	Data-driven imbalance and hard particle detection in rotating machinery using infrared thermal imaging. <i>Infrared Physics and Technology</i> , 2017 , 82, 28-39	2.7	8
16	Dynamic Monitoring Dashboards Through Composition of Web and Visualization Services. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2016 , 465-474	0.2	1
15	Towards intelligent lubrication control: Infrared thermal imaging for oil level prediction in bearings 2016 ,		1
14	Unsupervised spectral sub-feature learning for hyperspectral image classification. <i>International Journal of Remote Sensing</i> , 2016 , 37, 309-326	3.1	9
13	Enabling Control of 3D Visuals, Scenarios and Non-linear Gameplay in Serious Game Development Through Model-Driven Authoring. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2016 , 103-110	0.2	2
12	Thermal image based fault diagnosis for rotating machinery. <i>Infrared Physics and Technology</i> , 2015 , 73, 78-87	2.7	72
11	Hyperspectral Image Classification with Convolutional Neural Networks 2015 ,		44
10	Review of wildfire detection using social media. <i>Fire Safety Journal</i> , 2014 , 68, 109-118	3.3	42
9	SAMuS: service-oriented architecture for multisensor surveillance in smart homes. <i>Scientific World Journal, The</i> , 2014 , 2014, 150696	2.2	5
8	Image-Based Road Type Classification 2014 ,		8
7	Educational virtual game scenario generation for serious games 2014 ,		11

6	Influence of Weak Labels for Emotion Recognition of Tweets. <i>Lecture Notes in Computer Science</i> , 2014 , 108-118	0.9	2
5	Real-time emotion classification of Tweets 2013 ,		6
4	Multi-sensor fire detection using visual and time-of-flight imaging 2011 ,		5
3	Automatic WS-BPEL Composition of Medical Support Services in the ICU 2009 ,		1
2	Dynamic Selection of Interactive eHomeCare Services 2007 ,		1
1	Dynamic Workflow Instrumentation for Windows Workflow Foundation 2007 ,		1