Sofie Van Hoecke

List of Publications by Citations

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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	Deep Learning for Infrared Thermal Image Based Machine Health Monitoring. *IEEE/ASME Transactions on Mechatronics*, **2018**, 23, 151-159	5.5	94
40	Thermal image based fault diagnosis for rotating machinery. *Infrared Physics and Technology*, **2015**, 73, 78-87	2.7	72
39	Hyperspectral Image Classification with Convolutional Neural Networks **2015**,		44
38	The efficacy of the Friendly Attac serious digital game to promote prosocial bystander behavior in cyberbullying among young adolescents: A cluster-randomized controlled trial. *Computers in Human Behavior*, **2018**, 78, 336-347	7.7	42
37	Review of wildfire detection using social media. *Fire Safety Journal*, **2014**, 68, 109-118	3.3	42
36	Thermal Imaging and Vibration-Based Multisensor Fault Detection for Rotating Machinery. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 434-444	11.9	37
35	Scalable Fleet Monitoring and Visualization for Smart Machine Maintenance and Industrial IoT Applications. *Sensors*, **2020**, 20,	3.8	18
34	FLAGS: A methodology for adaptive anomaly detection and root cause analysis on sensor data streams by fusing expert knowledge with machine learning. *Future Generation Computer Systems*, **2021**, 116, 30-48	7.5	13
33	Educational virtual game scenario generation for serious games **2014**,		11
32	Unsupervised spectral sub-feature learning for hyperspectral image classification. *International Journal of Remote Sensing*, **2016**, 37, 309-326	3.1	9
31	Data-driven imbalance and hard particle detection in rotating machinery using infrared thermal imaging. *Infrared Physics and Technology*, **2017**, 82, 28-39	2.7	8
30	Image-Based Road Type Classification **2014**,		8
29	A Dynamic Dashboarding Application for Fleet Monitoring Using Semantic Web of Things Technologies. *Sensors*, **2020**, 20,	3.8	7
28	A generalized matrix profile framework with support for contextual series analysis. *Engineering Applications of Artificial Intelligence*, **2020**, 90, 103487	7.2	6
27	Extended FTLD pedigree segregating a Belgian GRN-null mutation: neuropathological heterogeneity in one family. *Alzheimer's Research and Therapy*, **2018**, 10, 7	9	6
26	Real-time emotion classification of Tweets **2013**,		6
25	Psychometric data of a questionnaire to measure cyberbullying bystander behavior and its behavioral determinants among adolescents. *Data in Brief*, **2018**, 18, 1588-1595	1.2	6

24	SAMuS: service-oriented architecture for multisensor surveillance in smart homes. *Scientific World Journal, The*, **2014**, 2014, 150696	2.2	5
23	Multi-sensor fire detection using visual and time-of-flight imaging **2011**,		5
22	Bayesian Convolutional Neural Networks for Remaining Useful Life Prognostics of Solenoid Valves With Uncertainty Estimations. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 8418-8428	11.9	5
21	Neural Network Augmented Physics Models for Systems with Partially Unknown Dynamics: Application to Slider-Crank Mechanism. *IEEE/ASME Transactions on Mechatronics*, **2021**, 1-1	5.5	5
20	A Convolutional Neural Network Aided Physical Model Improvement for AC Solenoid Valves Diagnosis **2019**,		4
19	Eliminating Noise in the Matrix Profile **2019**,		3
18	Implications of Z-Normalization in the Matrix Profile. *Lecture Notes in Computer Science*, **2020**, 95-118	0.9	3
17	Prediction of follower jumps in cam-follower mechanisms: The benefit of using physics-inspired features in recurrent neural networks. *Mechanical Systems and Signal Processing*, **2022**, 166, 108453	7.8	3
16	Data-Driven Prognostics of Alternating Current Solenoid Valves **2020**,		2
15	Mining Recurring Patterns in Real-Valued Time Series using the Radius Profile **2020**,		2
14	Influence of Weak Labels for Emotion Recognition of Tweets. *Lecture Notes in Computer Science*, **2014**, 108-118	0.9	2
13	Enabling Control of 3D Visuals, Scenarios and Non-linear Gameplay in Serious Game Development Through Model-Driven Authoring. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2016**, 103-110	0.2	2
12	Physics-Based Neural Network Models for Prediction of Cam-Follower Dynamics Beyond Nominal Operations. *IEEE/ASME Transactions on Mechatronics*, **2021**, 1-1	5.5	2
11	Dynamic Monitoring Dashboards Through Composition of Web and Visualization Services. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2016**, 465-474	0.2	1
10	Towards intelligent lubrication control: Infrared thermal imaging for oil level prediction in bearings **2016**,		1
9	Automatic WS-BPEL Composition of Medical Support Services in the ICU **2009**,		1
8	Dynamic Selection of Interactive eHomeCare Services **2007**,		1
7	Dynamic Workflow Instrumentation for Windows Workflow Foundation **2007**,		1

6	Hybrid derivative functions for identification of unknown loads and physical parameters with application on slider-crank mechanism **2019**,		1
5	Smart Machine Maintenance Enabled by a Condition Monitoring Living Lab. *IFAC-PapersOnLine*, **2019**, 52, 376-381	0.7	1
4	A Complete Software Stack for IoT Time-Series Analysis that Combines Semantics and Machine Learning Lessons Learned from the Dyversify Project. *Applied Sciences (Switzerland)*, **2021**, 11, 11932	2.6	1
3	An Incremental Grey-Box Current Regression Model for Anomaly Detection of Resistance Mash Seam Welding in Steel Mills. *Applied Sciences (Switzerland)*, **2022**, 12, 913	2.6	0
2	Event-Driven Dashboarding and Feedback for Improved Event Detection in Predictive Maintenance Applications. *Applied Sciences (Switzerland)*, **2021**, 11, 10371	2.6	0
1	Unsupervised Anomaly Detection for Communication Networks: An Autoencoder Approach. *Communications in Computer and Information Science*, **2020**, 160-172	0.3	