

# Serge Guillaume

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

982  
citations

430874

18  
h-index

434195

31  
g-index

50  
all docs

50  
docs citations

50  
times ranked

948  
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning interpretable fuzzy inference systems with FisPro. Information Sciences, 2011, 181, 4409-4427.	6.9	110
2	HILK: A new methodology for designing highly interpretable linguistic knowledge bases using the fuzzy logic formalism. International Journal of Intelligent Systems, 2008, 23, 761-794.	5.7	87
3	Integrating SPOT-5 time series, crop growth modeling and expert knowledge for monitoring agricultural practices " The case of sugarcane harvest on Reunion Island. Remote Sensing of Environment, 2009, 113, 2052-2061.	11.0	82
4	A segmentation algorithm for the delineation of agricultural management zones. Computers and Electronics in Agriculture, 2010, 70, 199-208.	7.7	78
5	Fuzzy inference systems: An integrated modeling environment for collaboration between expert knowledge and data using FisPro. Expert Systems With Applications, 2012, 39, 8744-8755.	7.6	77
6	A hierarchical clustering algorithm and an improvement of the single linkage criterion to deal with noise. Expert Systems With Applications, 2019, 128, 96-108.	7.6	40
7	Building an interpretable fuzzy rule base from data using Orthogonal Least Squares"Application to a depollution problem. Fuzzy Sets and Systems, 2007, 158, 2078-2094.	2.7	35
8	Expert guided integration of induced knowledge into a fuzzy knowledge base. Soft Computing, 2006, 10, 773-784.	3.6	32
9	DENDIS: A new density-based sampling for clustering algorithm. Expert Systems With Applications, 2016, 56, 349-359.	7.6	32
10	GeoFIS: An Open Source, Decision-Support Tool for Precision Agriculture Data. Agriculture (Switzerland), 2018, 8, 73.	3.1	32
11	Practical Inference With Systems of Gradual Implicative Rules. IEEE Transactions on Fuzzy Systems, 2009, 17, 61-78.	9.8	30
12	Influence of micrometeorological factors on pesticide loss to the air during vine spraying: Data analysis with statistical and fuzzy inference models. Biosystems Engineering, 2008, 100, 184-197.	4.3	29
13	k -maxitive fuzzy measures: A scalable approach to model interactions. Fuzzy Sets and Systems, 2017, 324, 33-48.	2.7	27
14	ProTraS: A probabilistic traversing sampling algorithm. Expert Systems With Applications, 2018, 105, 65-76.	7.6	26
15	Hybrid genetic algorithm for dual selection. Pattern Analysis and Applications, 2008, 11, 179-198.	4.6	24
16	Revised HLMS: A useful algorithm for fuzzy measure identification. Information Fusion, 2013, 14, 532-540.	19.1	24
17	DIDES: a fast and effective sampling for clustering algorithm. Knowledge and Information Systems, 2017, 50, 543-568.	3.2	21
18	Munec: a mutual neighbor-based clustering algorithm. Information Sciences, 2019, 486, 148-170.	6.9	20

#	ARTICLE	IF	CITATIONS
19	A new method for inducing a set of interpretable fuzzy partitions and fuzzy inference systems from data. <i>Studies in Fuzziness and Soft Computing</i> , 2003, , 148-175.	0.8	18
20	Knowledge-based Intelligent Diagnosis of Ground Robot Collision with Non Detectable Obstacles. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2007, 48, 539-566.	3.4	17
21	Fuzzy partitions: A way to integrate expert knowledge into distance calculations. <i>Information Sciences</i> , 2013, 245, 76-95.	6.9	16
22	Knowledge discovery for control purposes in food industry databases. <i>Fuzzy Sets and Systems</i> , 2001, 122, 487-497.	2.7	15
23	Discrimination of Corn from Monocotyledonous Weeds with Ultraviolet (UV) Induced Fluorescence. <i>Applied Spectroscopy</i> , 2011, 65, 10-19.	2.2	15
24	Small Catchment Agricultural Management Using Decision Variables Defined at Catchment Scale and a Fuzzy Rule-Based System: A Mediterranean Vineyard Case Study. <i>Water Resources Management</i> , 2011, 25, 2649-2668.	3.9	11
25	A spectral envelope approach towards effective SVM-RFE on infrared data. <i>Pattern Recognition Letters</i> , 2016, 71, 59-65.	4.2	11
26	Improved Discrimination between Monocotyledonous and Dicotyledonous Plants for Weed Control Based on the Blue-Green Region of Ultraviolet-Induced Fluorescence Spectra. <i>Applied Spectroscopy</i> , 2010, 64, 30-36.	2.2	9
27	Interpretable fuzzy inference systems for cooperation of expert knowledge and data in agricultural applications using FisPro. , 2010, , .		8
28	Effects of Preprocessing of Ultraviolet-Induced Fluorescence Spectra in Plant Fingerprinting Applications. <i>Applied Spectroscopy</i> , 2008, 62, 747-752.	2.2	6
29	Imperfect knowledge and data-based approach to model a complex agronomic feature " Application to vine vigor. <i>Computers and Electronics in Agriculture</i> , 2013, 99, 135-145.	7.7	6
30	Support to decision-making. , 2020, , 183-224.		6
31	Detection of natural clusters via S-DBSCAN a Self-tuning version of DBSCAN. <i>Knowledge-Based Systems</i> , 2022, 241, 108288.	7.1	6
32	Soft computing-based decision support tools for spatial data. <i>International Journal of Computational Intelligence Systems</i> , 2013, 6, 18.	2.7	5
33	Multi-source Information Fusion: Monitoring Sugarcane Harvest Using Multi-temporal Images, Crop Growth Modelling, and Expert Knowledge. , 2007, , .		4
34	Open source software for modelling using agro-environmental georeferenced data. , 2012, , .		4
35	From Supervised Instance and Feature Selection Algorithms to Dual Selection: A Review. <i>Unsupervised and Semi-supervised Learning</i> , 2020, , 83-128.	0.5	4
36	Parameter optimization of a fuzzy inference system using the FisPro open source software. , 2012, , .		3

#	ARTICLE	IF	CITATIONS
37	A numerical distance based on fuzzy partitions. , 2011, , .		3
38	A practical inference method with several implicative gradual rules and a fuzzy input: one and two dimensions. , 2007, , .		2
39	A fuzzy logic based soil chemical quality index for cacao. Computers and Electronics in Agriculture, 2020, 177, 105624.	7.7	2
40	Fuzzy Logic Approach for Spatially Variable Nitrogen Fertilization of Corn Based on Soil, Crop and Precipitation Information. Lecture Notes in Computer Science, 2011, , 356-368.	1.3	2
41	A progressive sampling framework for clustering. Neurocomputing, 2021, 450, 48-60.	5.9	1
42	Fuzzy Modeling of a Composite Agronomical Feature Using FisPro: The Case of Vine Vigor. Communications in Computer and Information Science, 2014, , 127-137.	0.5	1
43	Using the OLS algorithm to build interpretable rule bases: an application to a depollution problem. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	0
44	Fuzzy partition-based distance practical use and implementation. , 2013, , .		0
45	A fast and flexible instance selection algorithm adapted to non-trivial database sizes. Intelligent Data Analysis, 2015, 19, 631-658.	0.9	0
46	Consistency of the Tools That Predict the Impact of Single Nucleotide Variants (SNVs) on Gene Functionality: The BRCA1 Gene. Biomolecules, 2020, 10, 475.	4.0	0
47	Systèmes d'inférence floue : collaboration expertise et données dans un environnement de modélisation intelligente à l'aide de FisPro. Revue D'Intelligence Artificielle, 2013, 27, 569-593.	0.6	0
48	A Family of Unsupervised Sampling Algorithms. Unsupervised and Semi-supervised Learning, 2020, , 45-81.	0.5	0
49	A Preliminary Comparison of P-Tool Consistency. IFMBE Proceedings, 2020, , 731-735.	0.3	0