Francesc AlÃas

List of Publications by Year
in descending order

66 papers	1,092 citations	471509 17 h-index	434195 31 g-index
70 all docs	70 docs citations	70 times ranked	908 citing authors

#	Article	IF	Citations
1	WASN-Based Spectro-Temporal Analysis and Clustering of Road Traffic Noise in Urban and Suburban Areas. Applied Sciences (Switzerland), 2022, 12, 981.	2.5	1
2	Contribution of Vocal Tract and Glottal Source Spectral Cues in the Generation of Acted Happy and Aggressive Spanish Vowels. Applied Sciences (Switzerland), 2022, 12, 2055.	2.5	1
3	Effects of COVID-19 lockdown in Milan urban and Rome suburban acoustic environments: Anomalous noise events and intermittency ratio. Journal of the Acoustical Society of America, 2022, 151, 1676-1683.	1.1	4
4	Parallel hierarchical architectures for efficient consensus clustering on big multimedia cluster ensembles. Information Sciences, 2020, 511, 212-228.	6.9	8
5	WASN-Based Day–Night Characterization of Urban Anomalous Noise Events in Narrow and Wide Streets. Sensors, 2020, 20, 4760.	3.8	8
6	Editorial for Special Issue "IberSPEECH2018: Speech and Language Technologies for Iberian Languages". Applied Sciences (Switzerland), 2020, 10, 384.	2.5	0
7	Characterization of a WASN-Based Urban Acoustic Dataset for the Dynamic Mapping of Road Traffic Noise. Proceedings (mdpi), 2020, 42, 60.	0.2	2
8	Noise at the time of COVID 19: The impact in some areas in Rome and Milan, Italy. Noise Mapping, 2020, 7, 248-264.	1.8	21
9	Aggregate Impact of Anomalous Noise Events on the WASN-Based Computation of Road Traffic Noise Levels in Urban and Suburban Environments. Sensors, 2020, 20, 609.	3.8	8
10	A WASN-Based Suburban Dataset for Anomalous Noise Event Detection on Dynamic Road-Traffic Noise Mapping. Sensors, 2019, 19, 2480.	3.8	15
11	Review of Wireless Acoustic Sensor Networks for Environmental Noise Monitoring in Smart Cities. Journal of Sensors, 2019, 2019, 1-13.	1.1	44
12	Anomalous events removal for automated traffic noise maps generation. Applied Acoustics, 2019, 151, 183-192.	3.3	17
13	Acoustic Conditions Analysis of a Multi-Sensor Network for the Adaptation of the Anomalous Noise Event Detector. Proceedings (mdpi), 2019, 4, .	0.2	2
14	Leveraging Urban Sounds: A Commodity Multi-Microphone Hardware Approach for Sound Recognition. Proceedings (mdpi), 2019, 4, .	0.2	1
15	Glottal Source Contribution to Higher Order Modes in the Finite Element Synthesis of Vowels. Applied Sciences (Switzerland), 2019, 9, 4535.	2.5	6
16	A unit selection text-to-speech-and-singing synthesis framework from neutral speech: proof of concept. Eurasip Journal on Audio, Speech, and Music Processing, 2019, 2019, .	2.1	1
17	Detection of Anomalous Noise Events for Real-Time Road-Traffic Noise Mapping: The Dynamap's project case study. Noise Mapping, 2018, 5, 71-85.	1.8	15
18	Detecting Anomalous Noise Events on Low-Capacity Acoustic Sensor in Dynamic Road Traffic Noise Mapping. Proceedings (mdpi), 2018, 2, 136.	0.2	3

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19	On the Impact of Anomalous Noise Events on Road Traffic Noise Mapping in Urban and Suburban Environments. International Journal of Environmental Research and Public Health, 2018, 15, 13.	2.6	23
20	Detection of Anomalous Noise Events on Low-Capacity Acoustic Nodes for Dynamic Road Traffic Noise Mapping within an Hybrid WASN. Sensors, 2018, 18, 1272.	3.8	17
21	The role of prosody and voice quality in indirect storytelling speech: A cross-narrator perspective in four European languages. Speech Communication, 2017, 88, 1-16.	2.8	0
22	Design of a Mobile Low-Cost Sensor Network Using Urban Buses for Real-Time Ubiquitous Noise Monitoring. Sensors, 2017, 17, 57.	3.8	28
23	homeSound: Real-Time Audio Event Detection Based on High Performance Computing for Behaviour and Surveillance Remote Monitoring. Sensors, 2017, 17, 854.	3.8	55
24	An Anomalous Noise Events Detector for Dynamic Road Traffic Noise Mapping in Real-Life Urban and Suburban Environments. Sensors, 2017, 17, 2323.	3.8	56
25	Description of Anomalous Noise Events for Reliable Dynamic Traffic Noise Mapping in Real-Life Urban and Suburban Soundscapes. Applied Sciences (Switzerland), 2017, 7, 146.	2.5	25
26	An FPGA-Based WASN for Remote Real-Time Monitoring of Endangered Species: A Case Study on the Birdsong Recognition of Botaurus stellaris. Sensors, 2017, 17, 1331.	3.8	12
27	DYNAMAP â€" Development of low cost sensors networks for real time noise mapping. Noise Mapping, 2016, 3, .	1.8	50
28	A Review of Physical and Perceptual Feature Extraction Techniques for Speech, Music and Environmental Sounds. Applied Sciences (Switzerland), 2016, 6, 143.	2.5	139
29	Influence of lips on the production of vowels based on finite element simulations and experiments. Journal of the Acoustical Society of America, 2016, 139, 2852-2859.	1.1	21
30	The role of prosody and voice quality in indirect storytelling speech: Annotation methodology and expressive categories. Speech Communication, 2016, 85, 8-18.	2.8	9
31	Adding Singing Capabilities to Unit Selection TTS Through HNM-Based Conversion. Lecture Notes in Computer Science, 2016, , 33-43.	1.3	1
32	Look, listen and find: A purely audiovisual approach to online videos geotagging. Information Sciences, 2015, 295, 558-572.	6.9	3
33	A method for designing automatic assessment systems based on teachers reasoning for evaluating subjective engineering student's competences. , 2014, , .		2
34	A one-shot domain-independent robust multimedia clustering methodology based on hybrid multimodal fusion. Multimedia Tools and Applications, 2014, 73, 1507-1543.	3.9	6
35	Gesture synthesis adapted to speech emphasis. Speech Communication, 2014, 57, 331-350.	2.8	19
36	Two-step detection of water sound events for the diagnostic and monitoring of dementia. , 2013, , .		6

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37	Narrow-band autocorrelation function features for the automatic recognition of acoustic environments. Journal of the Acoustical Society of America, 2013, 134, 880-890.	1.1	8
38	Sentence-Based Sentiment Analysis for Expressive Text-to-Speech. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 223-233.	3.2	49
39	Effects of head geometry simplifications on acoustic radiation of vowel sounds based on time-domain finite-element simulations. Journal of the Acoustical Society of America, 2013, 134, 2946-2954.	1.1	28
40	Automatic classification of road vehicles considering their pass-by acoustic signature. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
41	Hierarchical Classification of Environmental Noise Sources Considering the Acoustic Signature of Vehicle Pass-Bys. Archives of Acoustics, 2012, 37, 423-434.	0.8	8
42	Audio and video cues for geo-tagging online videos in the absence of metadata. , 2012, , .		3
43	Gammatone Cepstral Coefficients: Biologically Inspired Features for Non-Speech Audio Classification. IEEE Transactions on Multimedia, 2012, 14, 1684-1689.	7.2	199
44	Positional and confidence voting-based consensus functions for fuzzy cluster ensembles. Fuzzy Sets and Systems, 2012, 193, 1-32.	2.7	20
45	Efficient and reliable perceptual weight tuning for unit-selection text-to-speech synthesis based on active interactive genetic algorithms: A proof-of-concept. Speech Communication, 2011, 53, 786-800.	2.8	12
46	Evolutionary process indicators for active IGAs applied to weight tuning in unit selection TTS synthesis. , 2010, , .		0
47	Reliable Pitch Marking of Affective Speech at Peaks or Valleys Using Restricted Dynamic Programming. IEEE Transactions on Multimedia, 2010, 12, 481-489.	7.2	2
48	Automatic refinement of an expressive speech corpus assembling subjective perception and automatic classification. Speech Communication, 2009, 51, 744-758.	2.8	21
49	GTM User Modeling for aIGA Weight Tuning in TTS Synthesis. , 2009, , 788-795.		0
50	Towards High-Quality Next-Generation Text-to-Speech Synthesis: A Multidomain Approach by Automatic Domain Classification. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 1340-1354.	3.2	28
51	BordaConsensus. , 2007, , .		6
52	Prosody Modelling of Spanish for Expressive Speech Synthesis. , 2007, , .		5
53	Validation of an Expressive Speech Corpus by Mapping Automatic Classification to Subjective Evaluation. , 2007, , 646-653.		1
54	Extracting User Preferences by GTM for aIGA Weight Tuning in Unit Selection Text-to-Speech Synthesis. , 2007, , 654-661.		3

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55	Text Clustering on Latent Thematic Spaces: Variants, Strengths and Weaknesses. , 2007, , 794-801.		1
56	Objective and Subjective Evaluation of an Expressive Speech Corpus. , 2007, , 86-94.		8
57	A Hierarchical Consensus Architecture for Robust Document Clustering. , 2007, , 741-744.		1
58	Assessing Students'€™ Teamwork Performance by Means of Fuzzy Logic. , 2007, , 383-390.		0
59	Mixing HMM-Based Spanish Speech Synthesis with a CBR for Prosody Estimation. , 2007, , 78-85.		2
60	Analyzing active interactive genetic algorithms using visual analytics. , 2006, , .		15
61	Feature diversity in cluster ensembles for robust document clustering. , 2006, , .		12
62	Modeling and Synthesizing Emotional Speech for Catalan Text-to-Speech Synthesis. Lecture Notes in Computer Science, 2004, , 197-208.	1.3	7
63	High quality Spanish restricted-domain TTS oriented to a weather forecast application. , 0, , .		3
64	A pitch marks filtering algorithm based on restricted dynamic programming. , 0, , .		5
65	Sentiment classification in English from sentence-level annotations of emotions regarding models of affect. , 0, , .		4
66	GlottDNN-based spectral tilt analysis of tense voice emotional styles for the expressive 3D numerical synthesis of vowel [a]. , 0, , .		2