Sergio Gil-Lopez

List of Publications by Year
in descending order

60 papers	**1,857** citations	331670 **21** h-index	289244 **40** g-index
63 all docs	**63** docs citations	**63** times ranked	**1587** citing authors

#	ARTICLE	IF	CITATIONS
1	A survey on applications of the harmony search algorithm. Engineering Applications of Artificial Intelligence, 2013, 26, 1818-1831.	8.1	317
2	Retrieval of temperature and tangent altitude pointing from limb emission spectra recorded from space by the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS). Journal of Geophysical Research, 2003, 108, .	3.3	242
3	The Coral Reefs Optimization Algorithm: A Novel Metaheuristic for Efficiently Solving Optimization Problems. Scientific World Journal, The, 2014, 2014, 1-15.	2.1	136
4	Observation of NOxenhancement and ozone depletion in the Northern and Southern Hemispheres after the October-November 2003 solar proton events. Journal of Geophysical Research, 2005, 110, .	3.3	132
5	Downward transport of upper atmospheric NOxinto the polar stratosphere and lower mesosphere during the Antarctic 2003 and Arctic 2002/2003 winters. Journal of Geophysical Research, 2005, 110, .	3.3	131
6	HNO3, N2O5, and ClONO2enhancements after the October-November 2003 solar proton events. Journal of Geophysical Research, 2005, 110, .	3.3	69
7	Experimental evidence of perturbed odd hydrogen and chlorine chemistry after the October 2003 solar proton events. Journal of Geophysical Research, 2005, 110, .	3.3	55
8	An enhanced HNO3second maximum in the Antarctic midwinter upper stratosphere 2003. Journal of Geophysical Research, 2005, 110, .	3.3	52
9	Retrieval of stratospheric ozone profiles from MIPAS/ENVISAT limb emission spectra: a sensitivity study. Atmospheric Chemistry and Physics, 2006, 6, 2767-2781.	4.9	49
10	A multi-objective grouping Harmony Search algorithm for the optimal distribution of 24-hour medical emergency units. Expert Systems With Applications, 2013, 40, 2343-2349.	7.6	44
11	Centralized and distributed spectrum channel assignment in cognitive wireless networks: A Harmony Search approach. Applied Soft Computing Journal, 2012, 12, 921-930.	7.2	42
12	One-way urban traffic reconfiguration using a multi-objective harmony search approach. Expert Systems With Applications, 2013, 40, 3341-3350.	7.6	38
13	Remote sensing of the middle atmosphere with MIPAS. , 2003, , .		35
14	Cross comparisons of O3 and NO2 measured by the atmospheric ENVISAT instruments GOMOS, MIPAS, and SCIAMACHY. Advances in Space Research, 2005, 36, 855-867.	2.6	34
15	A comparative study of two hybrid grouping evolutionary techniques for the capacitated P-median problem. Computers and Operations Research, 2012, 39, 2214-2222.	4.0	30
16	Evaluating the Internationalization Success of Companies Through a Hybrid Grouping Harmony Searchâ€"Extreme Learning Machine Approach. IEEE Journal on Selected Topics in Signal Processing, 2012, 6, 388-398.	10.8	27
17	A Coral Reefs Optimization algorithm for optimal mobile network deployment with electromagnetic pollution control criterion. Applied Soft Computing Journal, 2014, 24, 239-248.	7.2	27
18	Vibrationally excited ozone in the middle atmosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2006, 68, 202-212.	1.6	26

#	ARTICLE	IF	CITATIONS
19	A novel heuristic approach for distance- and connectivity-based multihop node localization in wireless sensor networks. Soft Computing, 2013, 17, 17-28.	3.6	26
20	A random-key encoded harmony search approach for energy-efficient production scheduling with shared resources. Engineering Optimization, 2015, 47, 1481-1496.	2.6	24
21	A novel grouping harmony search algorithm for the multiple-type access node location problem. Expert Systems With Applications, 2012, 39, 5262-5270.	7.6	23
22	A hybrid harmony search algorithm for the spread spectrum radar polyphase codes design problem. Expert Systems With Applications, 2012, 39, 11089-11093.	7.6	23
23	A comparison of night-time GOMOS and MIPAS ozone profiles in the stratosphere and mesosphere. Advances in Space Research, 2005, 36, 958-966.	2.6	22
24	Retrieval of stratospheric and mesospheric O3 from high resolution MIPAS spectra at 15 and 10 Î¼m. Advances in Space Research, 2005, 36, 943-951.	2.6	21
25	Atmospheric non-local thermodynamic equilibrium emissions as observed by the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS). Comptes Rendus Physique, 2005, 6, 848-863.	0.9	20
26	On the design of a novel two-objective harmony search approach for distance- and connectivity-based localization in wireless sensor networks. Engineering Applications of Artificial Intelligence, 2013, 26, 669-676.	8.1	20
27	Iterative power and subcarrier allocation in rate-constrained orthogonal multicarrier downlink systems based on hybrid harmony search heuristics. Engineering Applications of Artificial Intelligence, 2011, 24, 748-756.	8.1	19
28	Validation of stratospheric temperatures measured by Michelson Interferometer for Passive Atmospheric Sounding (MIPAS) on Envisat. Journal of Geophysical Research, 2005, 110, .	3.3	16
29	Efficient citywide planning of open WiFi access networks using novel grouping harmony searchheuristics. Engineering Applications of Artificial Intelligence, 2013, 26, 1124-1130.	8.1	15
30	On the Application of a Novel Grouping Harmony Search Algorithm to the Switch Location Problem. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 662-672.	0.3	11
31	A novel heuristic algorithm for multiuser detection in synchronous CDMA wireless sensor networks. , 2009, , .		10
32	Comparisons of MIPAS/ENVISAT ozone profiles with SMR/ODIN and HALOE/UARS observations. Advances in Space Research, 2005, 36, 927-931.	2.6	9
33	Longitudinal variations of temperature and ozone profiles observed by MIPAS during the Antarctic stratosphere sudden warming of 2002. Journal of Geophysical Research, 2005, 110, .	3.3	9
34	Evidence for CH47.6 Î¼m non-local thermodynamic equilibrium emission in the mesosphere. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	8
35	A novel CAM-based traffic light preemption algorithm for efficient guidance of emergency vehicles. , 2010, , .		8
36	Range-free localization algorithm based on connectivity and motion. Wireless Networks, 2014, 20, 2287-2305.	3.0	8

#	Article	IF	Citations
37	Early IMK/IAA MIPAS/ENVISAT results. , 2003, 4882, 184.		7
38	NO+ fundamental and first hot ro-vibrational line frequencies from MIPAS/Envisat atmospheric spectra. Journal of Molecular Spectroscopy, 2006, 237, 218-224.	1.2	7
39	A novel Harmony Search based spectrum allocation technique for cognitive radio networks. , 2010, , .		7
40	Comparisons of MIPAS-observed temperature profiles with other satellite measurements. , 2004, , .		5
41	Joint Source-Channel-Network Decoding and Blind Estimation of Correlated Sensors Using Concatenated Zigzag Codes. Lecture Notes in Computer Science, 2009, , 30-41.	1.3	5
42	A preliminary approach to near-optimal multi-hop capacitated network design using grouping-dandelion encoded heuristics. , 2012, , .		5
43	On the application of a hybrid Harmony Search algorithm to node localization in anchor-based Wireless Sensor Networks. , 2011, , .		4
44	Novel hybrid heuristics for an extension of the dynamic relay deployment problem over disaster areas. Top, 2014, 22, 997-1016.	1.6	4
45	Comparison of GPS/SAC-C and MIPAS/ENVISAT Temperature Profiles and Its Possible Implementation for EOS MLS Observations. , 2005, , 573-578.		3
46	Resource allocation in rate-limited OFDMA Systems: A hybrid heuristic approach. , 2011, , .		3
47	Iterative Fusion of Distributed Decisions over the Gaussian Multiple-Access Channel Using Concatenated BCH-LDGM Codes. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	2.4	3
48	A Grouping Harmony Search approach for the Citywide WiFi deployment problem. , 2011, , .		3
49	A novel range-free localization algorithm to turn connectivity traces and motion data into localization information. Ad Hoc Networks, 2014, 20, 36-52.	5.5	3
50	On the design of frequency-switching patterns for distributed data fusion over relay networks. , 2010, , .		2
51	A heuristically-driven multi-criteria tool for the design of efficient open WiFi access networks. , 2012, , .		2
52	Optimal Phase Swapping in Low Voltage Distribution Networks Based on Smart Meter Data and Optimization Heuristics. Advances in Intelligent Systems and Computing, 2017, , 283-293.	0.6	2
53	Comparisons of MIPAS/ENVISAT and GPS-RO/CHAMP Temperatures. , 2005, , 567-572.		1
54	On the Application of a Novel Hybrid Harmony Search Algorithm to the Radar Polyphase Code Design Problem. , 2011, , .		1

#	Article	IF	Citations
55	A novel multi-objective algorithm for the optimal placement of wind turbines with cost and yield production criteria. , 2014, , .		1
56	Harmony Search Heuristics for Quasi-asynchronous CDMA Detection with M-PAM Signalling. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 626-637.	0.3	1
57	A Bi-objective Harmony Search Approach for Deploying Cost-Effective Multi-hop Communications over Large-Area Wildfires. Advances in Intelligent Systems and Computing, 2014, , 93-103.	0.6	1
58	Methodology to Compare Meta-heuristic Algorithms to Solve Selective Harmonic Elimination-PWM and Optimal Pulse Pattern Formulations. , 2021, , .		1
59	On the design of an heuristically optimized multiband spectrum sensing approach for cognitive radio systems. , 2012, , .		0
60	A Novel Grouping Harmony Search Algorithm for Clustering Problems. Advances in Intelligent Systems and Computing, 2017, , 78-90.	0.6	0