

D S Achanta

List of Publications by Year in descending order

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72
papers

633
citations

623734

14
h-index

642732

23
g-index

72
all docs

72
docs citations

72
times ranked

488
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistics of Surface-Layer Turbulence Over Terrain with Metre-Scale Heterogeneity. <i>Boundary-Layer Meteorology</i> , 1998, 86, 379-408.	2.3	105
2	Modelling of low-latitude ionosphere using modified planar fit method for GAGAN. <i>IET Radar, Sonar and Navigation</i> , 2009, 3, 609.	1.8	48
3	Stability Dependence of the Eddy-Accumulation Coefficients for Momentum and Scalars. <i>Boundary-Layer Meteorology</i> , 1998, 86, 409-420.	2.3	32
4	ESTIMATION AND MITIGATION OF GPS MULTIPATH INTERFERENCE USING ADAPTIVE FILTERING. <i>Progress in Electromagnetics Research M</i> , 2011, 21, 133-148.	0.9	30
5	Improved Phase Center Estimation for GNSS Patch Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2013, 61, 1909-1915.	5.1	26
6	Modeling of Low-Latitude Ionosphere Using GPS Data With SHF Model. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 972-980.	6.3	25
7	Investigation of suitability of grid-based ionospheric models for GAGAN. <i>Electronics Letters</i> , 2006, 42, 478.	1.0	24
8	GPS satellite and receiver instrumental biases estimation using SVD algorithm. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2008, 44, 1560-1566.	4.7	23
9	Accuracy Evaluation of Estimated Ionospheric Delay of GPS Signals Based on Klobuchar and IRI-2007 Models in Low Latitude Region. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2013, 10, 1557-1561.	3.1	23
10	Performance evaluation of selected ionospheric delay models during geomagnetic storm conditions in low-latitude region. <i>Radio Science</i> , 2011, 46, .	1.6	19
11	Augmentation of Indian Regional Navigation Satellite System to Improve Dilution of Precision. <i>Journal of Navigation</i> , 2010, 63, 313-321.	1.7	18
12	Modeling of Ionospheric Time Delay Using Anisotropic IDW With Jackknife Technique. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 513-519.	6.3	18
13	INVESTIGATION OF THE EFFECT OF IONOSPHERIC GRADIENTS ON GPS SIGNALS IN THE CONTEXT OF LAAS. <i>Progress in Electromagnetics Research B</i> , 2014, 57, 191-205.	1.0	17
14	Modelling of ionospheric time delay of Global Positioning System (GPS) signals using Taylor series expansion for GPS Aided Geo Augmented Navigation applications. <i>IET Radar, Sonar and Navigation</i> , 2014, 8, 1081-1090.	1.8	16
15	Spectral Analysis and Mitigation of GPS Multipath Error Using Digital Filtering for Static Applications. <i>IETE Journal of Research</i> , 2013, 59, 156.	2.6	14
16	Investigation of ionospheric gradients for GAGAN application. <i>Earth, Planets and Space</i> , 2009, 61, 633-635.	2.5	12
17	Performance evaluation of IRI-2007 at equatorial latitudes and its Matlab version for GNSS applications. <i>Advances in Space Research</i> , 2013, 52, 1845-1858.	2.6	12
18	Preliminary analysis of grid ionospheric vertical error for GAGAN. <i>GPS Solutions</i> , 2007, 11, 281-288.	4.3	11

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19	Coherent Radio Beacon Experiment (CRABEX) for tomographic imaging of the equatorial ionosphere in the Indian longitudes " Preliminary results. Advances in Space Research, 2007, 40, 436-441.	2.6	10
20	Mitigation of GPS multipath error using recursive least squares adaptive filtering. , 2010, , .		10
21	Millimetre-wave rain induced attenuation: theory and experiment. IEE Proceedings H: Microwaves, Antennas and Propagation, 1986, 133, 308.	0.2	9
22	Multipath mitigation using LMS adaptive filtering for GPS applications. , 2009, , .		8
23	Estimation of overbound on ionospheric spatial decorrelation over low latitude region for ground-based augmentation systems. IET Radar, Sonar and Navigation, 2016, 10, 637-645.	1.8	8
24	ANALYSIS OF CORRELATION BETWEEN ROTI AND S4 USING GAGAN DATA. Progress in Electromagnetics Research M, 2021, 99, 23-34.	0.9	8
25	Theoretical and experimental investigation of millimeter wave phase fluctuations in an absorption region. Journal of Infrared, Millimeter and Terahertz Waves, 1986, 7, 785-793.	0.6	7
26	Effect of blowing snow and ground blizzards on millimeter wave scintillation spectra. Journal of Infrared, Millimeter and Terahertz Waves, 1991, 12, 997-1022.	0.6	7
27	A WIDE BAND ANTENNA FOR MULTI-CONSTELLATION GNSS AND AUGMENTATION SYSTEMS. Progress in Electromagnetics Research M, 2010, 11, 65-77.	0.9	7
28	Estimation of Total Electron Content and Instrumental Biases of Low Latitude Global Positioning System Stations Using Kalman Filter. IETE Journal of Research, 2010, 56, 235.	2.6	7
29	Preliminary performance evaluation of IRNSS-GPS-SBAS receiver in terms of position accuracy and velocity. , 2016, , .		7
30	Effect of meteorological conditions on scintillation fading in the oxygen absorption region. Applied Optics, 1988, 27, 2261.	2.1	6
31	Influence of water vapor pressure fluctuations on the spectral density of millimeter wave amplitude scintillations in an absorption region. Journal of Infrared, Millimeter and Terahertz Waves, 1987, 8, 851-856.	0.6	5
32	Modelling of Path Loss using Adaptive Propagation Technique for Land Mobile CM and MM Wave Communication Systems. IETE Technical Review (Institution of Electronics and Telecommunication) Tj ETQq0 0 0 rg87 /Overlock 10 Tf 5		5
33	Analysis of ionospheric scintillations of GPS and VHF/UHF signals over low latitude Indian region. , 2012, , .		5
34	Some experimental and modeling results of widely varying urban environments on train mobile radio communication. Wireless Communications and Mobile Computing, 2006, 6, 105-112.	1.2	4
35	Enhancement of DOP in Stratolite-based Navigation Systems. IETE Journal of Research, 2012, 58, 476.	2.6	4
36	Selective Suppression of IRNSS S-band Signals for Specific Applications. , 2017, , .		4

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37	Comparison of TEC Estimation Techniques using S1 and L5 Signals of IRNSS. Radioelectronics and Communications Systems, 2018, 61, 306-316.	0.5	4
38	Design and Implementation of Bluetooth-Beacon Based Indoor Positioning System. , 2019, , .		4
39	Effect of multipath and snow on millimeter wave scintillations on a 4.1-km line-of-sight link. Journal of Atmospheric and Solar-Terrestrial Physics, 1991, 53, 369-378.	0.9	3
40	Significance of Rain Induced Attenuation and Multipath in the Design of Digital Microwave Links. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 1995, 12, 359-373.	3.2	3
41	Uniform Geometrical Theory of Diffraction for the Analysis of On-Aircraft Antennas: A Mini-Review. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 1998, 15, 191-202.	3.2	3
42	Forecasting of ionospheric time delay using Holt-winter method for GPS applications in low latitude region. , 2013, , .		3
43	Performance of holt-winter and exponential smoothing methods for forecasting ionospheric TEC using IRNSS data. , 2017, , .		3
44	Comparative Analysis of the Techniques for Estimation of GPS DOP over Indian Region. IETE Journal of Research, 2009, 55, 28.	2.6	2
45	A NEW TECHNIQUE BASED ON GREY MODEL FOR FORECASTING OF IONOSPHERIC GPS SIGNAL DELAY USING GAGAN DATA. Progress in Electromagnetics Research M, 2017, 59, 33-43.	0.9	2
46	Investigations of Doppler Collision Effects on NavIC. , 2018, , .		2
47	Measurement of atmospheric millimetre-wave phase scintillations in an absorption region. Electronics Letters, 1985, 21, 486-487.	1.0	1
48	A Novel Technique of Modeling GPS Antennas Mounted on a Rocket Shaped Structure using Wedge Diffraction Analysis. IETE Technical Review (Institution of Electronics and Telecommunication) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 297		1
49	A Non-Precision Instrument Approach Procedure with Vertical Guidance (IPV) for Aircraft Landing Using GPS. Journal of Navigation, 2001, 54, 281-291.	1.7	1
50	Analysis of asymptotic theory of differential phase millimeter-wave scintillations in the oxygen absorption region. IEEE Transactions on Antennas and Propagation, 2003, 51, 872-879.	5.1	1
51	Mitigation of Cellular Phone Interference in ECG During Emergency Patient Transportation. Cardiovascular Engineering and Technology, 2013, 4, 544-552.	1.6	1
52	Estimation of tropospheric time delay for Indian LAAS. , 2013, , .		1
53	Ionospheric time delay modelling using anisotropic IDW. , 2014, , .		1
54	Forecasting of ionospheric scintillations of GPS L-band signals over an Indian low latitude station. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
55	Effect of latitude and longitude on bounding sigma at low-latitude stations for GBAS applications. , 2016, , .		1
56	Indoor Propagation of IRNSS Signals: Preliminary Results. , 2018, , .		1
57	Humidity sensor for scintillation measurements. International Journal of Electronics, 1990, 69, 389-392.	1.4	0
58	Design Aspects of a Millimeter Wave Scintillometer for Flux Measurements. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 1998, 15, 521-528.	3.2	0
59	Modeling of planar spiral antenna mounted on a rocket shaped structure using wedge diffraction analysis. , 0, , .		0
60	Channel characterization of mobile signal at 11 GHz. , 0, , .		0
61	Performance evaluation of single and dual frequency Carrier Smoothing techniques for LAAS. , 2011, , .		0
62	Mitigation of Code-carrier Divergence Effect using an Optimized Filter for LAAS Applications. IETE Journal of Research, 2012, 58, 464.	2.6	0
63	Analysis of future LAAS ‘availability’ at Hyderabad station for Precision Approach of aircraft. , 2012, , .		0
64	VTEC estimation with Taylor Series Expansion model using GPS data for low latitude region. , 2012, , .		0
65	Characterization of Indian ionospheric TEC behavior using PDFs and GPS satellite data. , 2013, , .		0
66	Estimation of plasmaspheric electron content at low latitudes using GNSS signals. , 2014, , .		0
67	Effect of Amplitude Scintillations on the Tracking Error of IRNSS Receiver for Indoor Navigation Applications. , 2017, , .		0
68	Suitability of Ionospheric Coefficients for IRNSS Single Frequency Receivers. , 2018, , .		0
69	Analysis of Ionospheric Delay Effects on IRNSS-GPS Receiver Coordinates. , 2018, , .		0
70	On the Suitability of Ionospheric Gradient Estimation Techniques for IRNSS Based GBAS Applications. , 2018, , .		0
71	PARASITIC PROBE FED MICROSTRIP ANTENNA FOR MULTI-CONSTELLATION GNSS. Progress in Electromagnetics Research Letters, 2013, 37, 1-10.	0.7	0
72	Results of Indoor Localization using the Optimum Pathloss Model at 2.4 GHz. , 2020, , .		0