

# D S Achanta

## List of Publications by Year in descending order

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72  
papers

633  
citations

623734

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642732

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72  
docs citations

72  
times ranked

488  
citing authors

#	ARTICLE	IF	CITATIONS
1	ANALYSIS OF CORRELATION BETWEEN ROTI AND S4 USING GAGAN DATA. Progress in Electromagnetics Research M, 2021, 99, 23-34.	0.9	8
2	Results of Indoor Localization using the Optimum Pathloss Model at 2.4 GHz. , 2020, , .		0
3	Design and Implementation of Bluetooth-Beacon Based Indoor Positioning System. , 2019, , .		4
4	Suitability of Ionospheric Coefficients for IRNSS Single Frequency Receivers. , 2018, , .		0
5	Analysis of Ionospheric Delay Effects on IRNSS-GPS Receiver Coordinates. , 2018, , .		0
6	On the Suitability of Ionospheric Gradient Estimation Techniques for IRNSS Based GBAS Applications. , 2018, , .		0
7	Indoor Propagation of IRNSS Signals: Preliminary Results. , 2018, , .		1
8	Comparison of TEC Estimation Techniques using S1 and L5 Signals of IRNSS. Radioelectronics and Communications Systems, 2018, 61, 306-316.	0.5	4
9	Investigations of Doppler Collision Effects on NavIC. , 2018, , .		2
10	Performance of holt-winter and exponential smoothing methods for forecasting ionospheric TEC using IRNSS data. , 2017, , .		3
11	Selective Suppression of IRNSS S-band Signals for Specific Applications. , 2017, , .		4
12	Effect of Amplitude Scintillations on the Tracking Error of IRNSS Receiver for Indoor Navigation Applications. , 2017, , .		0
13	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
14	Preliminary performance evaluation of IRNSS-GPS-SBAS receiver in terms of position accuracy and velocity. , 2016, , .		7
15	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
16	Effect of latitude and longitude on bounding sigma at low-latitude stations for GBAS applications. , 2016, , .		1
17	Modeling of Ionospheric Time Delay Using Anisotropic IDW With Jackknife Technique. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 513-519.	6.3	18
18	INVESTIGATION OF THE EFFECT OF IONOSPHERIC GRADIENTS ON GPS SIGNALS IN THE CONTEXT OF LAAS. Progress in Electromagnetics Research B, 2014, 57, 191-205.	1.0	17

#	ARTICLE	IF	CITATIONS
19	Estimation of plasmaspheric electron content at low latitudes using GNSS signals. , 2014, , .		0
20	Modelling of ionospheric time delay of Global Positioning System (GPS) signals using Taylor series expansion for GPS Aided Geo Augmented Navigation applications. IET Radar, Sonar and Navigation, 2014, 8, 1081-1090.	1.8	16
21	Ionospheric time delay modelling using anisotropic IDW. , 2014, , .		1
22	Forecasting of ionospheric scintillations of GPS L-band signals over an Indian low latitude station. , 2014, , .		1
23	Mitigation of Cellular Phone Interference in ECG During Emergency Patient Transportation. Cardiovascular Engineering and Technology, 2013, 4, 544-552.	1.6	1
24	Accuracy Evaluation of Estimated Ionospheric Delay of GPS Signals Based on Klobuchar and IRI-2007 Models in Low Latitude Region. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1557-1561.	3.1	23
25	Performance evaluation of IRI-2007 at equatorial latitudes and its Matlab version for GNSS applications. Advances in Space Research, 2013, 52, 1845-1858.	2.6	12
26	Estimation of tropospheric time delay for Indian LAAS. , 2013, , .		1
27	Improved Phase Center Estimation for GNSS Patch Antenna. IEEE Transactions on Antennas and Propagation, 2013, 61, 1909-1915.	5.1	26
28	Spectral Analysis and Mitigation of GPS Multipath Error Using Digital Filtering for Static Applications. IETE Journal of Research, 2013, 59, 156.	2.6	14
29	Characterization of Indian ionospheric TEC behavior using PDFs and GPS satellite data. , 2013, , .		0
30	Forecasting of ionospheric time delay using Holt-winter method for GPS applications in low latitude region. , 2013, , .		3
31	PARASITIC PROBE FED MICROSTRIP ANTENNA FOR MULTI-CONSTELLATION GNSS. Progress in Electromagnetics Research Letters, 2013, 37, 1-10.	0.7	0
32	Mitigation of Code-carrier Divergence Effect using an Optimized Filter for LAAS Applications. IETE Journal of Research, 2012, 58, 464.	2.6	0
33	Analysis of future LAAS &#x2018;availability&#x2019; at Hyderabad station for Precision Approach of aircraft. , 2012, , .		0
34	Analysis of ionospheric scintillations of GPS and VHF/UHF signals over low latitude Indian region. , 2012, , .		5
35	Enhancement of DOP in Stratolite-based Navigation Systems. IETE Journal of Research, 2012, 58, 476.	2.6	4
36	VTEC estimation with Taylor Series Expansion model using GPS data for low latitude region. , 2012, , .		0

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37	Modeling of Low-Latitude Ionosphere Using GPS Data With SHF Model. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 972-980.	6.3	25
38	Performance evaluation of single and dual frequency Carrier Smoothing techniques for LAAS. , 2011, , .		0
39	Performance evaluation of selected ionospheric delay models during geomagnetic storm conditions in low latitude region. Radio Science, 2011, 46, .	1.6	19
40	ESTIMATION AND MITIGATION OF GPS MULTIPATH INTERFERENCE USING ADAPTIVE FILTERING. Progress in Electromagnetics Research M, 2011, 21, 133-148.	0.9	30
41	Augmentation of Indian Regional Navigation Satellite System to Improve Dilution of Precision. Journal of Navigation, 2010, 63, 313-321.	1.7	18
42	A WIDE BAND ANTENNA FOR MULTI-CONSTELLATION GNSS AND AUGMENTATION SYSTEMS. Progress in Electromagnetics Research M, 2010, 11, 65-77.	0.9	7
43	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
44	Mitigation of GPS multipath error using recursive least squares adaptive filtering. , 2010, , .		10
45	Comparative Analysis of the Techniques for Estimation of GPS DOP over Indian Region. IETE Journal of Research, 2009, 55, 28.	2.6	2
46	Investigation of ionospheric gradients for GAGAN application. Earth, Planets and Space, 2009, 61, 633-635.	2.5	12
47	Modelling of low-latitude ionosphere using modified planar fit method for GAGAN. IET Radar, Sonar and Navigation, 2009, 3, 609.	1.8	48
48	Multipath mitigation using LMS adaptive filtering for GPS applications. , 2009, , .		8
49	GPS satellite and receiver instrumental biases estimation using SVD algorithm. IEEE Transactions on Aerospace and Electronic Systems, 2008, 44, 1560-1566.	4.7	23
50	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
51	Preliminary analysis of grid ionospheric vertical error for GAGAN. GPS Solutions, 2007, 11, 281-288.	4.3	11
52	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
53	Investigation of suitability of grid-based ionospheric models for GAGAN. Electronics Letters, 2006, 42, 478.	1.0	24
54	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

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55	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 ETQq1 1 0.784314 r/BT /Overlock 10T	1.7	1
56	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
57	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 ETQq1 1 0.784314 r/BT /Overlock	1.7	1
58	Statistics of Surface-Layer Turbulence Over Terrain with Metre-Scale Heterogeneity. Boundary-Layer Meteorology, 1998, 86, 379-408.	2.3	105
59	Stability Dependence of the Eddy-Accumulation Coefficients for Momentum and Scalars. Boundary-Layer Meteorology, 1998, 86, 409-420.	2.3	32
60	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
61	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
62	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
63	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
64	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
65	Humidity sensor for scintillation measurements. International Journal of Electronics, 1990, 69, 389-392.	1.4	0
66	Effect of meteorological conditions on scintillation fading in the oxygen absorption region. Applied Optics, 1988, 27, 2261.	2.1	6
67	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
68	Millimetre-wave rain induced attenuation: theory and experiment. IEE Proceedings H: Microwaves, Antennas and Propagation, 1986, 133, 308.	0.2	9
69	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
70	Measurement of atmospheric millimetre-wave phase scintillations in an absorption region. Electronics Letters, 1985, 21, 486-487.	1.0	1
71	Modeling of planar spiral antenna mounted on a rocket shaped structure using wedge diffraction analysis. , 0, , .		0
72	Channel characterization of mobile signal at 11 GHz. , 0, , .		0