

# Andrej Hrovat

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

585  
citations

1040056

9  
h-index

713466

21  
g-index

48  
all docs

48  
docs citations

48  
times ranked

580  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey of Radio Propagation Modeling for Tunnels. IEEE Communications Surveys and Tutorials, 2014, 16, 658-669.	39.4	162
2	Measurements and Analysis of Large-Scale Fading Characteristics in Curved Subway Tunnels at 920 MHz, 2400 MHz, and 5705 MHz. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2393-2405.	8.0	67
3	Four-slope channel model for path loss prediction in tunnels at 400â€¦MHz. IET Microwaves, Antennas and Propagation, 2010, 4, 571.	1.4	50
4	A Geometry-Based Stochastic Channel Model for the Millimeter-Wave Band in a 3GPP High-Speed Train Scenario. IEEE Transactions on Vehicular Technology, 2018, 67, 3853-3865.	6.3	40
5	Influence of Typical Railway Objects in a mmWave Propagation Channel. IEEE Transactions on Vehicular Technology, 2018, 67, 2880-2892.	6.3	32
6	Large scale assessment of Ka/Q band atmospheric channel across Europe with ALPHASAT TDP5: The augmented network. , 2017, , .		20
7	Assessment of spatial and temporal properties of <scp>Ka/Q</scp> band earthâ€space radio channel across Europe using <scp>Alphasat Aldo Paraboni</scp> payload. International Journal of Satellite Communications and Networking, 2019, 37, 477-501.	1.8	18
8	Challenges and chances for smart rail mobility at mmWave and THz bands from the channels viewpoint. , 2017, , .		15
9	Self-Calibrated UWB based device-free indoor localization and activity detection approach. , 2020, , .		15
10	Continuous Integration in Wireless Technology Development. IEEE Communications Magazine, 2018, 56, 74-81.	6.1	14
11	Comparison of WiMAX coverage at 450MHz and 3.5GHz. , 2006, , .		13
12	Prediction of Joint Rain Attenuation Statistics Induced on Earthâ€Satellite Multiple Site Diversity Systems Using Gaussian Copula. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 95-98.	4.0	10
13	A Simplified Multipath Component Modeling Approach for High-Speed Train Channel Based on Ray Tracing. Wireless Communications and Mobile Computing, 2017, 2017, 1-14.	1.2	10
14	Prediction Model of Fade Duration Statistics for Satellite Communications at <i>Ka</i>- and <math>Q</math>-Bands. IEEE Transactions on Antennas and Propagation, 2019, 67, 5519-5531.	5.1	8
15	UWB Radio-Based Motion Detection System for Assisted Living. Sensors, 2021, 21, 3631.	3.8	8
16	GRASS-RaPlaT - Radio planning tool for GRASS GIS system. , 2013, , .		7
17	Experimental analysis of wireless temporary networks deployed by low altitude platforms. , 2013, , .		7
18	Traffic impact on radio wave propagation at millimeter-wave band in tunnels for 5G communications. , 2017, , .		7

#	ARTICLE	IF	CITATIONS
19	5G Channel Models for Railway Use Cases at mmWave Band and the Path Towards Terahertz. IEEE Intelligent Transportation Systems Magazine, 2021, 13, 146-155.	3.8	7
20	Rain Attenuation Prediction Model Based on Hyperbolic Cosecant Copula for Multiple Site Diversity Systems in Satellite Communications. IEEE Transactions on Antennas and Propagation, 2017, 65, 4768-4779.	5.1	6
21	Alphasat Propagation Measurements at Ka- and Q- Bands in Ljubljana: Three Years' Statistical Analysis. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 174-178.	4.0	6
22	Statistical analysis of 19.7 GHz satellite beacon measurements in Ljubljana, Slovenia. , 2014, , .		5
23	Analysis of radio wave propagation at millimeter-wave band in tunnels for 5G communications. , 2016, , .		5
24	Satellite propagation experiment in Ljubljana: Beacon measurements at Ka- and Q-band. , 2017, , .		5
25	Radio environment map (REM): An approach for provision wireless communications in disaster areas. , 2014, , .		4
26	Distributed REM-Assisted Radio Resource Management in LTE-A Networks. Wireless Personal Communications, 2017, 92, 107-126.	2.7	4
27	Significance Analysis for Typical Objects in mmWave Urban Railway Propagation Environment. , 2017, , .		4
28	Millimeter-Wave Communications for Smart Rail Mobility: From Channel Modeling to Prototyping. , 2019, , .		4
29	Modeling Microwave Propagation in Natural Caves Using LiDAR and Ray Tracing. IEEE Transactions on Antennas and Propagation, 2020, 68, 3878-3888.	5.1	4
30	Modeling of joint rain attenuation in earth-space diversity systems using Gaussian copula. , 2016, , .		3
31	Analysis of strategies for progressive 5G emergency network deployment. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3059.	3.9	3
32	Measurement based ultra-wideband channel model for mobile communications in tunnels. , 2018, , .		3
33	Fade Slope Analysis of Alphasat Satellite Measurements at Ka and Q Bands. , 2021, , .		3
34	Framework for the Machine Learning Based Wireless Sensing of the Electromagnetic Properties of Indoor Materials. Electronics (Switzerland), 2021, 10, 2843.	3.1	3
35	Tropospheric Scintillation Fading Analysis of Alphasat Satellite Measurements in Ka and Q Bands. , 2022, , .		3
36	3D Indoor Environment Characterization based on Radio Scanning: Initial Idea and Methodology. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
37	Statistical Analysis of Satellite Communication Experimental Time Diversity in Slovenia. , 2020, , .		2
38	Experiment Control and Monitoring System for LOG-a-TEC Testbed. Sensors, 2021, 21, 6422.	3.8	2
39	Evaluation of the Gaussian copula prediction method for joint rain attenuation statistics in Earth-satellite site diversity systems. , 2016, , .		1
40	A discrete-components millimeter-wave satellite beacon receiver for Q-band propagation experiment. International Journal of Satellite Communications and Networking, 2018, 36, 372-382.	1.8	1
41	Analysis of Fade Dynamics in Site Diversity System in Slovenia. , 2018, , .		1
42	Geometric Simplifications of Natural Caves in Ray-Tracing-Based Propagation Modelling. Electronics (Switzerland), 2021, 10, 2914.	3.1	1
43	WAP over TETRA trial services. , 2008, , .		0
44	Derivation and application of ray entity concept. , 2014, , .		0
45	Stochastic Modeling for Extra Propagation Loss of Tunnel Curve. , 2016, , .		0
46	Passive Ultra-Wideband Coarse Localization and Activity Detection System for Assisted Living. , 2019, , .		0
47	Users' QoS driven radio resources optimization based on radio environment map. Journal of Physics: Conference Series, 2019, 1334, 012016.	0.4	0
48	Study of Cooperative MIMO Approach in Hilly Environment. , 2020, , .		0