Juliette Marais

List of Publications by Year
in descending order

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52	918	933447	752698
papers	citations	10 h-index	20 g-index

53	53	53	626
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	GNSS Position Integrity in Urban Environments: A Review of Literature. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2762-2778.	8.0	257
2	A Survey of GNSS-Based Research and Developments for the European Railway Signaling. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2602-2618.	8.0	91
3	Land Mobile GNSS Availability and Multipath Evaluation Tool. IEEE Transactions on Vehicular Technology, 2005, 54, 1697-1704.	6.3	68
4	Simulation-based evaluation of dependability and safety properties of satellite technologies for railway localization. Transportation Research Part C: Emerging Technologies, 2012, 22, 42-57.	7.6	65
5	Gnss Performance Enhancement in Urban Environment Based on Pseudo-range Error Model. , 2008, , .		48
6	Toward accurate localization in guided transport: Combining GNSS data and imaging information. Transportation Research Part C: Emerging Technologies, 2014, 43, 188-197.	7.6	46
7	Method for evaluating an extended Fault Tree to analyse the dependability of complex systems: Application to a satellite-based railway system. Reliability Engineering and System Safety, 2015, 133, 300-313.	8.9	44
8	Dirichlet Process Mixtures for Density Estimation in Dynamic Nonlinear Modeling: Application to GPS Positioning in Urban Canyons. IEEE Transactions on Signal Processing, 2012, 60, 1638-1655.	5.3	32
9	Safety Appraisal of GNSS-Based Localization Systems Used in Train Spacing Control. IEEE Access, 2018, 6, 9898-9916.	4.2	26
10	GNSS accuracy enhancement based on pseudo range error estimation in an urban propagation environment. Expert Systems With Applications, 2013, 40, 5956-5964.	7.6	20
11	GNSS Integrity Monitoring Schemes for Terrestrial Applications in Harsh Signal Environments. IEEE Intelligent Transportation Systems Magazine, 2020, 12, 81-91.	3.8	19
12	Extended Kalman Filter (EKF) Innovation-Based Integrity Monitoring Scheme with C / N<inf>0</inf> Weighting. , 2018, , .		14
13	Counting of satellites with direct GNSS signals using Fisheye camera: A comparison of clustering algorithms. , 2011, , .		13
14	Accurate Localisation Based on GNSS and Propagation Knowledge for Safe Applications in Guided Transport. Procedia, Social and Behavioral Sciences, 2012, 48, 796-805.	0.5	11
15	Evaluation and Comparison of GNSS Navigation Algorithms including FDE for Urban Transport Applications. , 0, , .		11
16	Quantification of GNSS signals accuracy: An image segmentation method for estimating the percentage of sky. , 2009, , .		10
17	Galileo for railway operations: question about the positioning performances analogy with the RAMS requirements allocated to safety applications. European Transport Research Review, 2010, 2, 93-102.	4.8	10
18	From extended integrity monitoring to the safety evaluation of satellite-based localisation system. Reliability Engineering and System Safety, 2016, 155, 105-114.	8.9	10

#	Article	IF	Citations
19	Local GNSS Threat Detection Methods for Virtual Balise Placement in Railway Applications. , 2018, , .		10
20	Toward Autonomous Driving in Arctic Areas. IEEE Intelligent Transportation Systems Magazine, 2020, 12, 10-24.	3.8	8
21	Interpretation of the Galileo Safety-of-Life Service by Means of Railway RAMS Terminology. Transactions on Transport Sciences, 2008, 1, 61-68.	0.7	8
22	Image analysis based real time detection of satellites reception state. , 2010, , .		7
23	GNSS/IMU Tightly Coupled Scheme with Weighting and FDE for Rail Applications. , 0, , .		7
24	Positioning urban buses: GNSS performances. , 2008, , .		6
25	Characterization of the reception environment of GNSS signals using a texture and color based adaptive segmentation technique. , 2010, , .		6
26	Safety concept of railway signalling based on Galileo Safety-of-Life Service. WIT Transactions on the Built Environment, 2008, , .	0.0	6
27	Video-based Classification of Railway Track Areas for GNSS-based Virtual Balise Solutions in the ERSAT GGC Project. , 0, , .		6
28	Analysis and optimal use of GNSS pseudo-range delays in urban canyons. , 2006, , .		5
29	GNSS pseudorange error density tracking using Dirichlet Process Mixture. , 2010, , .		5
30	RAMS analysis of GNSS based localisation system for the train control application. , 2014, , .		5
31	Satellite channel modelling using a Ray-tracing Tool for train communication. , 2006, , .		4
32	Studies on DPM for the density estimation of pseudorange noises and evaluations on real data. , 2010, , .		4
33	On selecting the hyperparameters of the DPM models for the density estimation of observation errors. , 2011, , .		4
34	Dependability evaluation of a GNSS and ECS based localisation unit for railway vehicles. , 2013, , .		4
35	Realistic position error models for GNSS simulation in railway environments. , 2020, , .		4
36	Multipath and NLOS detection based on the combination of CN0 values and a fish-eye camera. , 2020, , .		4

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37	Enhancement of Galileo and multi-constellation accuracy by modeling pseudorange noises. , 2009, , .		3
38	A hybrid and adaptive segmentation method using color and texture information. Proceedings of SPIE, 2010, , .	0.8	3
39	Application of fuzzy theory for identifying the required availability of an autonomous localization unit in European Train Control System. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2019, 23, 265-281.	4.2	3
40	Galileo availability for urban buses. , 2007, , .		2
41	Evaluation Method of GNSSâ€“based Positioning Functions for Safety Applications in Operational Conditions. Procedia, Social and Behavioral Sciences, 2012, 48, 806-815.	0.5	2
42	On the use of Dirichlet process mixtures for the modelling of pseudorange errors in multi-constellation based localisation. , 2009, , .		1
43	Advanced signal processing techniques for multipath mitigation in land transportation environment. , 2010, , .		1
44	Sensitivity assessment to analyse dependability of a multisensor localisation system based on GNSS. , 2013, , .		1
45	On The Impact Of Temporal Variation On GNSS Position Error Models. , 0, , .		1
46	Application des principes de la sÃ»retÃ© de fonctionnement Ã l'Ã©valuation du service de localisation par satellites dans le domaine ferroviaire. Recherche - Transports - Securite, 2008, 28, 89-103.	0.1	1
47	Geo-Distributed Simulation and Verification Infrastructure for safe train Galileo-based positioning. , 2020, , .		1
48	A robust segmentation and tracking method for characterizing GNSS signals reception environment. Proceedings of SPIE, 2011, , .	0.8	0
49	Contribution to a Terminology Related to Dependability for the Qualification of an On-Board Satellite-Based System. , 2013, , .		0
50	Sigma-Z: A New Parametric and Constrained-by-Design GNSS Observation Weighting Model for Land Applications. , 0, , .		0
51	ICT for intelligent public transport systems, state of knowledge and future trends. , 2015, , 49-74.		0
52	Towards a new GNSS observation weighting strategy for terrestrial applications. , 2020, , .		0