

# Xin Xia

## List of Publications by Year in descending order

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17  
papers

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759233

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docs citations

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citing authors

#	ARTICLE	IF	CITATIONS
1	Automated Vehicle Sideslip Angle Estimation Considering Signal Measurement Characteristic. IEEE Sensors Journal, 2021, 21, 21675-21687.	4.7	117
2	Autonomous Vehicle Kinematics and Dynamics Synthesis for Sideslip Angle Estimation Based on Consensus Kalman Filter. IEEE Transactions on Control Systems Technology, 2023, 31, 179-192.	5.2	116
3	IMU-Based Automated Vehicle Body Sideslip Angle and Attitude Estimation Aided by GNSS Using Parallel Adaptive Kalman Filters. IEEE Transactions on Vehicular Technology, 2020, 69, 10668-10680.	6.3	79
4	OpenCDA: An Open Cooperative Driving Automation Framework Integrated with Co-Simulation. , 2021, , .		70
5	Improved Vehicle Localization Using On-Board Sensors and Vehicle Lateral Velocity. IEEE Sensors Journal, 2022, 22, 6818-6831.	4.7	64
6	Vision-aided intelligent vehicle sideslip angle estimation based on a dynamic model. IET Intelligent Transport Systems, 2020, 14, 1183-1189.	3.0	56
7	Vehicle sideslip angle estimation by fusing inertial measurement unit and global navigation satellite system with heading alignment. Mechanical Systems and Signal Processing, 2021, 150, 107290.	8.0	50
8	Estimation on IMU yaw misalignment by fusing information of automotive onboard sensors. Mechanical Systems and Signal Processing, 2022, 162, 107993.	8.0	48
9	IMU-Based Automated Vehicle Slip Angle and Attitude Estimation Aided by Vehicle Dynamics. Sensors, 2019, 19, 1930.	3.8	40
10	Active Safety Control of Automated Electric Vehicles at Driving Limits: A Tube-Based MPC Approach. IEEE Transactions on Transportation Electrification, 2022, 8, 1338-1349.	7.8	39
11	Handling Stability Advancement With 4WS and DYC Coordinated Control: A Gain-Scheduled Robust Control Approach. IEEE Transactions on Vehicular Technology, 2021, 70, 3164-3174.	6.3	36
12	Autonomous Vehicles Sideslip Angle Estimation: Single Antenna GNSS/IMU Fusion With Observability Analysis. IEEE Internet of Things Journal, 2021, 8, 14845-14859.	8.7	24
13	Advancing Estimation Accuracy of Sideslip Angle by Fusing Vehicle Kinematics and Dynamics Information With Fuzzy Logic. IEEE Transactions on Vehicular Technology, 2021, 70, 6577-6590.	6.3	20
14	Intelligent vehicle sideslip angle estimation considering measurement signals delay. , 2018, , .		10
15	Vehicle Sideslip Angle Estimation Considering the Tire Pneumatic Trail Variation. , 0, , .		8
16	Vehicle Sideslip Angle Estimation: A Review. , 0, , .		6
17	Vehicle heading angle and IMU heading mounting angle improvement leveraging GNSS course angle. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2023, 237, 2249-2261.	1.9	1