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- [18] D. Loebis, R. Sutton, J. Chudley, and W. Naeem, “Adaptive tuning of a Kalman filter via fuzzy logic for an intelligent AUV navigation system,” *Control Engineering Practice*, vol. 12, no. 12, pp. 1531–1539, Dec. 2004, doi: 10.1016/j.conengprac.2003.11.008.
- [19] M. Elsheikh, A. Noureldin, and M. Korenberg, “Integration of GNSS Precise Point Positioning and Reduced Inertial Sensor System for Lane-Level Car Navigation,” *IEEE Transactions on Intelligent Transportation Systems*, vol. 23, no. 3, pp. 2246–2261, Mar. 2022, doi:10.1109/tits.2020.3040955.
- [20] M. Karaim, M. Tamazin, and A. Noureldin, “An Efficient Ultra-Tight GPS/RISS Integrated System for Challenging Navigation Environments,” *Applied Sciences*, vol. 10, no. 10, p. 3613, May 2020, doi: 10.3390/app10103613.
- [21] A. Aboutaleb, A. S. El-Wakeel, H. Elghamrawy, and A. Noureldin, “LiDAR/RISS/GNSS Dynamic Integration for Land Vehicle Robust Positioning in Challenging GNSS Environments,” *Remote Sensing*, vol. 12, no. 14, p. 2323, Jul. 2020, doi: 10.3390/rs12142323.
- [22] Y. Gao, Z. Liu, Y. Wang, and A. Noureldin, “A Hybrid RISS/GNSS Method During GNSS Outage in the Land Vehicle Navigation System,” *IEEE Sensors Journal*, vol. 23, no. 8, pp. 8690–8702, Apr. 2023, doi:10.1109/jsen.2023.3257046.
- [23] N. Li, Y. Gao, L. Guan, and M. Wu, “A Low-cost Underground Garage Real-time Navigation Algorithm based on the RISS and GPS System,” *2020 Chinese Control And Decision Conference (CCDC)*, pp. 533–538, Aug. 2020, doi: 10.1109/ccdc49329.2020.9164768.
- [24] A. Abosekeen, U. Iqbal, A. Noureldin, and M. J. Korenberg, “A Novel Multi-Level Integrated Navigation System for Challenging GNSS Environments,” *IEEE Transactions on Intelligent Transportation Systems*, vol. 22, no. 8, pp. 4838–4852, Aug. 2021, doi:10.1109/tits.2020.2980307.
- [25] U. Iqbal, A. Noureldin, J. Georgy, and M. J. Korenberg, “Application of System Identification Techniques for Integrated Navigation,” *2020 International Conference on Communications, Signal Processing, and their Applications (ICCSPA)*, pp. 1–6, Mar. 2021, doi:10.1109/iccsa49915.2021.9385723.
- [26] M. Karaim, M. Tamazin, and A. Noureldin, “An Efficient Ultra-Tight GPS/RISS Integrated System for Challenging Navigation Environments,” *Applied Sciences*, vol. 10, no. 10, p. 3613, May 2020, doi: 10.3390/app10103613.
- [27] Q. Xu, X. Li, and C.-Y. Chan, “Enhancing Localization Accuracy of MEMS-INS/GPS/In-Vehicle Sensors Integration During GPS Outages,” *IEEE Transactions on Instrumentation and Measurement*, vol. 67, no. 8, pp. 1966–1978, Aug. 2018, doi:10.1109/tim.2018.2805231.
- [28] G. Hu, B. Gao, Y. Zhong, and C. Gu, “Unscented kalman filter with process noise covariance estimation for vehicular ins/gps integration system,” *Information Fusion*, vol. 64, pp. 194–204, Dec. 2020, doi:10.1016/j.inffus.2020.08.005.
- [29] S. Liu, Z. Wang, Y. Chen, and G. Wei, “Protocol-Based Unscented Kalman Filtering in the Presence of Stochastic Uncertainties,” *IEEE Transactions on Automatic Control*, vol. 65, no. 3, pp. 1303–1309, Mar. 2020, doi: 10.1109/tac.2019.2929817.
- [30] G. Hu, L. Ni, B. Gao, X. Zhu, W. Wang, and Y. Zhong, “Model Predictive Based Unscented Kalman Filter for Hypersonic Vehicle Navigation With INS/GNSS Integration,” *IEEE Access*, vol. 8, pp. 4814–4823, 2020, doi: 10.1109/access.2019.2962832.
- [31] G. A. Terejanu, “Unscented kalman filter tutorial”, University Buffalo, Buffalo 2011.