

THESIS INPUTS

1. Journal Articles

1. Díez-González, J., Álvarez, R., Sánchez-González, L., Fernández-Robles, L., Perez, H. and Castejón-Limas, M. 3D Tdoa Problem Solution with Four Receiving Nodes. *Sensors*, **2019**, *19(13)*, 2892
2. Álvarez, R., Díez-González, J., Alonso, E., Fernández-Robles, L., Castejón-Limas, M. and Perez, H. Accuracy Analysis in Sensor Networks for Asynchronous Positioning Method. *Sensors*, **2019**, *19(13)*, 3024.
3. Díez-González, J., Álvarez, R., González-Bárcena, D., Sánchez-González, L., Castejón-Limas, M., Perez, H. Genetic Algorithm Approach to the 3D Node Localization in TDOA Systems. *Sensors*, **2019**, *19(18)*, 3880.
4. Díez-González, J., Álvarez, R., Prieto-Fernández, N. and Perez, H. Local Wireless Sensor Networks Positioning Reliability Under Sensor Failure. *Sensors*, **2020**, *20(5)*, 1426.
5. Álvarez, R., Díez-González, J., Sánchez-González, L. and Perez, H. Combined Noise and Clock CRLB Error Model for the Optimization of Node Location in Time Positioning Systems. *IEEE Access*, **2020**, *8*, 31910-31919.
6. Álvarez, R., Díez-González, J., Strisciuglio, N. and Perez, H. Multi-Objective Optimization for Asynchronous Positioning Systems Based on a Complete Characterization of Ranging Errors in 3D Complex Environments. *IEEE Access*, **2020**, *8*, 43046-43056.
7. Díez-González, J., Álvarez, R. and Perez, H. Optimized Cost-Effective Node Deployments in Asynchronous Time Local Positioning Systems. *IEEE Access*, **2020**, *8*, 154671-154682.
8. Álvarez, R., Díez-González, J., Verde, P. and Perez, H. Comparative Performance Analysis of Time Local Positioning Architectures in NLOS Urban Scenarios. (Submitted for publication in IEEE Access journal).
9. Díez-González, J., Verde, P., Ferrero-Guillén, R., Álvarez, R. and Perez, H. Hybrid Memetic Algorithm for the Node Location Problem in Local Positioning Systems. (Submitted for publication in Sensors journal).

2. International Conferences Contributions and Book Chapters

1. Díez-González J., Álvarez R., Verde P., Ferrero-Guillén R., González-Bárcena D., Pérez H. Stable Performance Under Sensor Failure of Local Positioning Systems. In: Herrero Á., Cambra C., Urda D., Sedano J., Quintián H., Corchado E. (eds) 15th International Conference on Soft Computing Models in Industrial and Environmental Applications (SOCO 2020). SOCO 2020. Advances in Intelligent Systems and Computing, vol 1268., 499-508, Springer, Cham. **2021**.

2. Ferrero-Guillén, R., Díez-González, J., Álvarez, R. and Perez, H. Analysis of the Genetic Algorithm Operators for the Node Location Problem in Local Positioning Systems. In: Villar, J.R., de la Cal, E., Quintián, H., Corchado E. (eds) 15th International Conference on Hybrid Artificial Intelligence Systems (HAIS 2020). HAIS 2020. Advances in Intelligent Systems and Computing, Springer, Cham. **2021**.