

## Referencias

- [1] Elonce.com, “Las diferencias entre el VAR del fútbol y el Video Ref del hockey,” *Elonce.com*, Aug. 04, 2021.  
<https://www.elonce.com/deportes/las-diferencias-entre-el-var-del-fntbol-y-el-video-ref-del-hockey.htm> (accessed Jan. 14, 2025).
- [2] A. Waqar, I. Ahmad, D. Habibi, and Q. V. Phung, “Analysis of GPS and UWB positioning system for athlete tracking,” *Measurement: Sensors*, vol. 14, p. 100036, Apr. 2021, doi: <https://doi.org/10.1016/j.measen.2020.100036>.
- [3] F. Che, Qasim Zeeshan Ahmed, P. I. Lazaridis, Pradorn Sureephong, and T. Alade, “Indoor Positioning System (IPS) Using Ultra-Wide Bandwidth (UWB)—For Industrial Internet of Things (IIoT),” *Sensors*, vol. 23, no. 12, pp. 5710–5710, Jun. 2023, doi: <https://doi.org/10.3390/s23125710>
- [4] C. R. Taylor, H. G. Abramson, and H. M. Herr, “Low-Latency Tracking of Multiple Permanent Magnets,” *Mit.edu*, Jun. 2021, doi: <https://hdl.handle.net/1721.1/136595>.
- [5] “Magnetic dipole moment,” *Questions and Answers in MRI*.  
<https://mriquestions.com/magnetic-dipole-moment.html>
- [6] A. Alonso, “Aplicación de técnicas de resonancia magnética muscular en el diagnóstico y seguimiento de enfermedades neuromusculares,” 2022.  
[https://ddd.uab.cat/pub/tesis/2022/hdl\\_10803\\_675516/aaj1de1.pdf](https://ddd.uab.cat/pub/tesis/2022/hdl_10803_675516/aaj1de1.pdf)
- [7] Okumoto, Y., Takeda, Y., Mano, M., Okada, T. (2009). Finite Element Method. In: Okumoto, Y., Takeda, Y., Mano, M., Okada, T. (eds) Design of Ship Hull Structures. Springer, Berlin, Heidelberg.
- [8] C. R. Taylor, H. G. Abramson and H. M. Herr, "Low-Latency Tracking of Multiple Permanent Magnets," in *IEEE Sensors Journal*, vol. 19, no. 23, pp. 11458-11468, 1 Dec.1, 2019.
- [9] S. Ghosh et al., "Radio Frequency Identification based Goal Line Technology for Quick Decision Making in a Football Match," 2019 Devices for Integrated Circuit (DevIC), Kalyani, India, 2019, pp. 441-445.
- [10] Johnk, C. T. A. (1975). Engineering electromagnetic fields and waves. New York.
- [11] Purcell, E. M. (2013). Electricity and magnetism. Cambridge university press.
- [12] Jackson, J. D., & Fox, R. F. (1999). Classical electrodynamics.
- [13] Campbell, W. H. (2003). Introduction to geomagnetic fields. Cambridge University Press.
- [14] Ranganathan, A. (2004). The Levenberg Marquardt algorithm. Tutorial on LM algorithm, 11(1), 101-110.