

Erratum

Erratum to “A Critical Analysis of Eight-Electromagnet Manipulation Systems: The Role of Electromagnet Configuration on Strength, Isotropy, and Access”

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In Section III-A of [1], four different electromagnet configurations are described geometrically. In each of the four configurations, it is assumed that all electromagnets are cylinders of the same dimensions with outer diameter D_o , and the distance from the electromagnets to the center of the respective manipulation workspace is reported as a fraction of D_o . However, in these descriptions, the numerical values reported are off by a factor of 2: for the square-antiprism configuration of Section III-A.1, the distance $1.31D_o$ should be $0.655D_o$; for the OctoMag configuration of Section III-A.2, the distance $1.73D_o$ should be $0.865D_o$; for the Magnetecs-CGCI configuration of Section III-A.3, the distance $1.41D_o$ should be $0.705D_o$; for the open-asymmetric

configuration of Section III-A.4, the distance $1.73D_o$ should be $0.865D_o$.

Similarly, in Section III-B of [1], it says “In our simulation, we exclusively considered $D_o = 0.1$ m”, but the correct value is $D_o = 0.2$ m.

REFERENCE

- [1] A. Pourkand and J. J. Abbott, “A critical analysis of eight-electromagnet manipulation systems: The role of electromagnet configuration on strength, isotropy, and access,” *IEEE Robot. Autom. Lett.*, vol. 3, no. 4, pp. 2957–2962, Oct. 2018.