

Gyroscopic Assistance for Human Balance

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Propositions

accompanying the dissertation

Gyroscopic Assistance for Human Balance

by

Daniel Santiago Lemus Pérez

1. Restoring torques are not essential for effective balance assistance (This thesis).
2. A continuous damping assistance is perceived more natural than any other continuous controller (This thesis).
3. *Free-torques* are those that do not create opposite and equal reactions in subsequent connected segments (This thesis).
4. The impact of research in society cannot be measured by citation-based metrics.
5. Science should be driven more by the ideal of leading humanity towards progress than the desire of profit, recognition or acknowledgement.
6. The ideal of pursuing the expansion of knowledge and understanding is being obstructed by the pressure of getting funding and getting published.
7. Social issues should shape science and in turn science should shape policies.
8. Academic collaboration is hindered by secrecy in research.
9. Science is pushed forward by the dissemination of negative results.
10. Social inequality is a measure of how knowledge has been unsuccessfully disseminated.

These propositions are regarded as opposable and defensible, and have been approved as such by the promoters prof. dr. ir. H. Vallery and prof. dr. F.C.T. van der Helm.