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Synergies and end-effector kinematics in upper limb movements

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Propositions

Belonging to the thesis

Synergies and end-effector kinematics in upper limb movements

by Inge Tuitert

1. To gain more insight into motor coordination one should examine the structure of variability. – This thesis
2. To coordinate the redundant degrees of freedom a two-step constraining process is at play. – This thesis
3. Different constraints have different roles: some constraints influence the emergence of a synergy while others influence the emergence of the specific behavior. – This thesis
4. A linear model for UCM analysis of joint angle configurations in multi-joint movements should be created using multiple regression analysis. – This thesis
5. Practicing an enlarged range of joint angle configurations does not affect flexibility of joint angle configurations. – This thesis
6. Horizontal curvature of the end-effector trajectory is related to the height of the surface in constrained manual point-to-point movements. – This thesis
7. The criterion for a coordinated system: the variance of the system's collective behavior is significantly less than the sum of the variances of its constituents. – Scott Kelso
8. En na het reisje moet ik weer nieuwe plannen maken. Zolang er plannen zijn, is er leven. – Hendrik Groen
9. Vake bu'j te bange. – Uitspraak in het Achterhoeks dialect