

Dissecting visual attention

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Propositions of the thesis

Dissecting visual attention: on the origin of attentional bias, alerting, and orienting effects

Ting Wang

1. There is a difference in effect sizes after inhibitory transcranial magnetic stimulation (TMS) over left versus right posterior parietal cortex (PPC), mirroring what is seen in the neglect patients. *(This thesis)*
2. Although TMS could mimic neglect symptoms in healthy volunteers, it is difficult to compare healthy brains to those of lesion patients. *(This thesis)*
3. The assumed empirical support for TMS-induced ipsilateral enhancements in visual detection paradigms in healthy volunteers seems to be a myth. *(This thesis)*
4. Finding localizers that work effectively for every brain region can be challenging. *(This thesis)*
5. In cases where localization failed in an individual subject, using a group-task localizer, which incorporates data from the remaining subjects, was often effective. *(This thesis)*
6. Drift diffusion models (DDM) highlight the importance of non-decisional processes rather than decisional process in both alerting and orienting effects. *(This thesis)*
7. The link between neural processes and cognitive processes thus represents a promising but early step for future exploration. *(This thesis)*
8. 真理需要不断重复去检验。 Truth needs to be tested over and over again.
9. 不积跬步，无以至千里，不积小流，无以成江海。——《荀子·劝学》 Without short steps, one cannot reach a thousand miles; without small streams, one cannot become a river or an ocean. *(Xunzi)*