Visual attention saccadic models: taking into account global scene context and temporal aspects of gaze behaviour
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Taking into account global scene context and temporal aspects of gaze behaviour

Introducing

How do saccadic models work?

Saccadic models can be easily tuned to emulate a specific visual behavior. For instance the joint distribution $p_B$ can be adapted to the semantic visual category of the stimulus.

PB can also be adapted to be spatially-variant. This allows to naturally take into account the center bias.

Conclusions

Visual attention saccadic models take into account the temporal dimension of visual exploration. They provide an efficient framework to integrate in a data-driven fashion variables as different as bottom-up saliency, spatial bias, context and scene composition, as well as oculomotor constraints. They will allow to tailor saliency model for specific populations (e.g. for different age groups, tasks, states of health...).


References