

1. Record Nr.	UNINA9910304132603321
Autore	Hitzel Elena
Titolo	Effects of Peripheral Vision on Eye Movements : A Virtual Reality Study on Gaze Allocation in Naturalistic Tasks / / by Elena Hitzel
Pubbl/distr/stampa	Wiesbaden : , : Springer Fachmedien Wiesbaden : , : Imprint : Springer, , 2015
ISBN	3-658-08466-9
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (108 p.)
Collana	BestMasters, , 2625-3577
Disciplina	150 153
Soggetti	Psychology Cognitive psychology General Psychology Cognitive Psychology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	The Allocation of Gaze in Natural Tasks -- An Effect of Peripheral Information on Gaze -- A Visual Center of Gravity Effect in Real-Life Tasks.- The Tasks-Relevance of Objects and its Impact on Gaze Position. .
Sommario/riassunto	Elena Hitzel pursues the idea that human gaze locations are influenced by currently non-fixated objects that are visible in the peripheral visual field. Using eye tracking equipment and a Virtual Reality system to provide naturalistic tasks, the author shows that gaze is biased towards a neighboring object, especially when this object is relevant to the subject's current task. This suggests that peripheral vision is used in the allocation of gaze in daily life and that this bias can be interpreted in terms of a compromise between foveal and peripheral information gain. The benefit of this bias in natural vision is discussed in the context of bottom-up and top-down theories. Contents The Allocation of Gaze in Natural Tasks An Effect of Peripheral Information on Gaze A Visual Center of Gravity Effect in Real-Life Tasks The Tasks-Relevance of Objects and its Impact on Gaze Position Target Groups Researchers and students in the fields of Visual Perception and Visual Neuroscience

Practitioners in the fields of Cognitive Ergonomics, Man-Machine Interaction, Neuropsychology The Author After graduating from Justus-Liebig-Universität Gießen with a Master's degree in Psychology, Elena Hitzel is currently enrolled in a Ph.D. program (Chair of General Psychology, Prof. Karl Gegenfurtner, JLU Gießen) that focuses on value-based modulations of visuo-motor control across the adult life span. .
