1. Record Nr. UNINA9910166647803321 Autore Galina V. Paramei Titolo Colour and Form Perception: Straddling the Boundary Pubbl/distr/stampa Frontiers Media SA, 2016 Descrizione fisica 1 electronic resource (134 p.) Collana Frontiers Research Topics Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Sommario/riassunto Starting from psychophysics, over the last 50 years, most progress in unravelling the mechanisms of color vision has been made through the study of single cell responses, mainly in LGN and striate cortex. A similar development in the study of form perception may seem to be underway, centred on the study of temporal cortex. However, because of the combinatorial characteristics of form perception, we are also observing the opposite tendency: from single-cell activity to population coding, and from static receptive field structures to system dynamics and integration and, ultimately, a synthetic form of psychophysics of color and form perception. From single cells to system integration: it is this development the present Research Topic wishes to highlight and promote. How does this development affect our views on the various attributes of perception? In particular, we are interested in to what extent evolving knowledge in the field of color perception is relevant within a developing integrative framework of form perception. The goal of this Research Topic is to bring together experimental research encompassing both color and form perception. For this volume, we planned a broad scope of topics - on color in complex scenes, color and form, as well as dynamic aspects of form perception. We expect

that the Research Topic will be attractive to the community of

integrative/systems neuroscience.

perception fields, as well as to the wider community interested in

researchers whose work straddles the boundary between the two visual