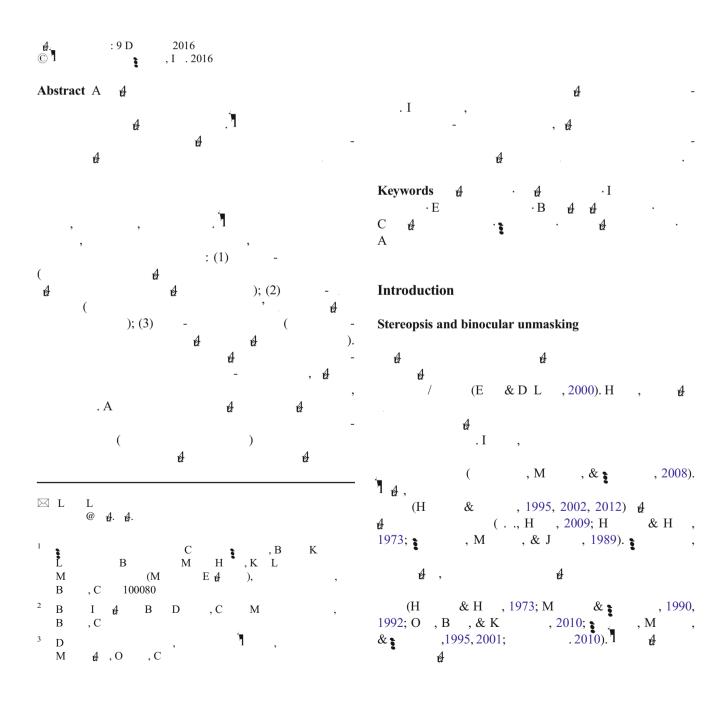
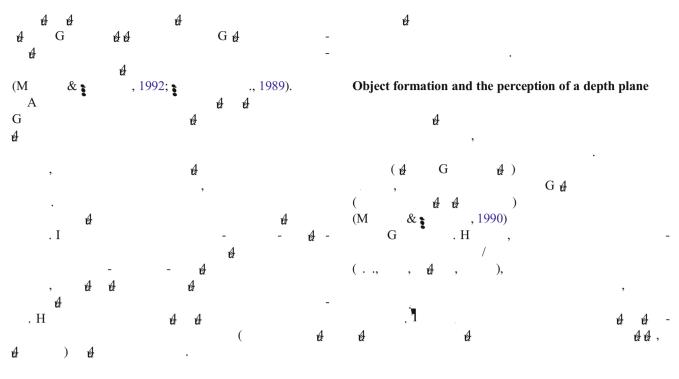
The effects of the binocular disparity differences between targets and maskers on visual search

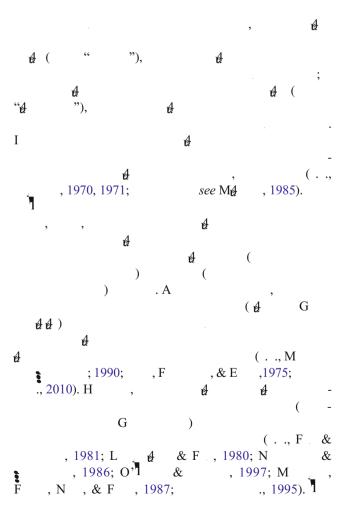
Ya-Yue Gao¹ • Bruce Schneider³ • Liang Li^{1,2}

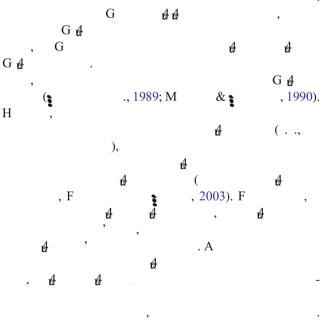


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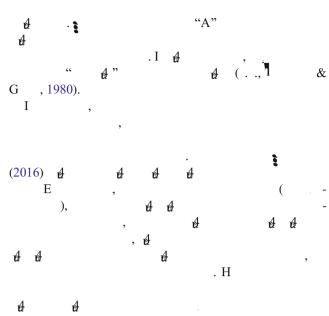








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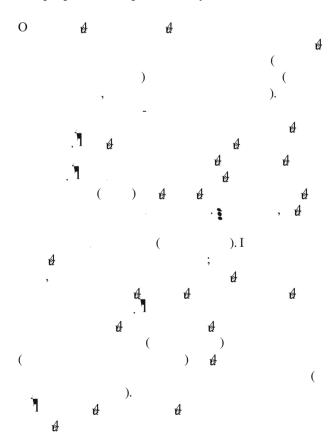
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The purposes of the present study

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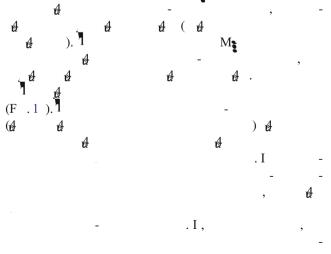


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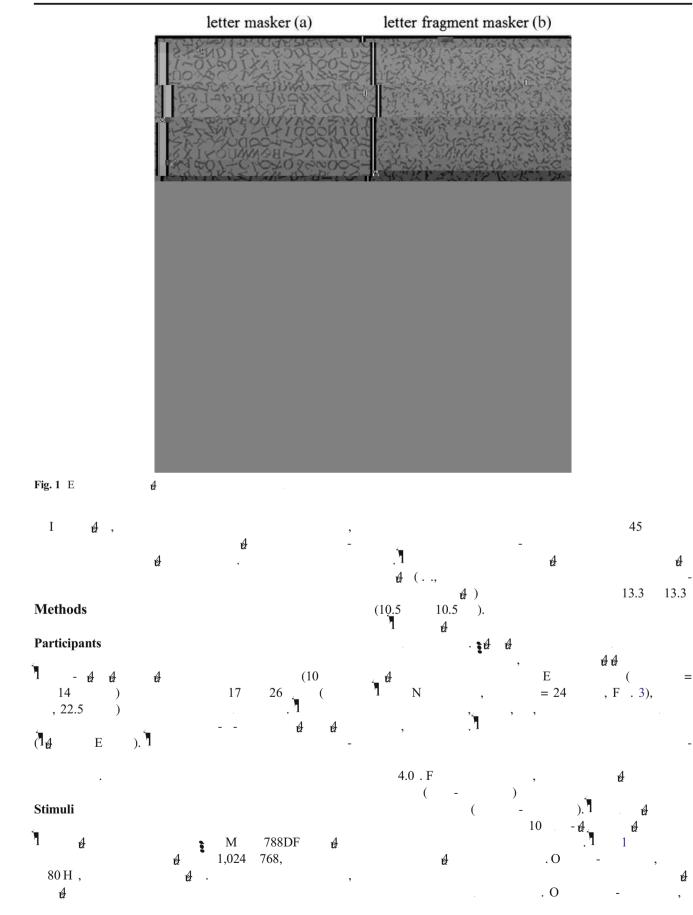
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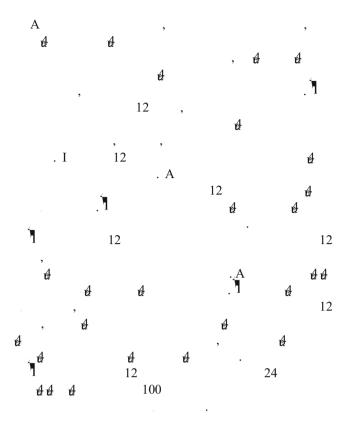


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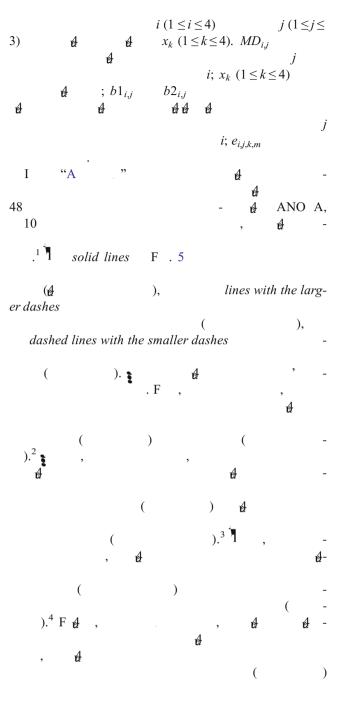


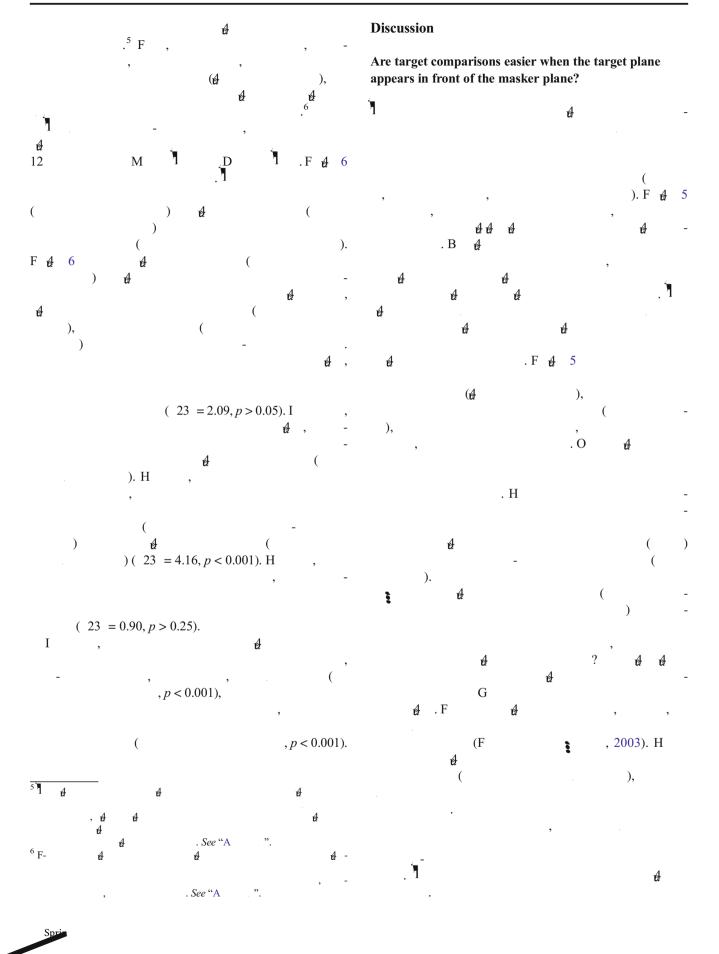


F 4 5 4 A ð 4 1). A 4 M) 1 3 D 4 D**4**) ((100, 400, 700, 1,000) A A ANO A 🛃 М $(F_{2.333,53.650} = 173.811, p < 0.001, G$ **₽** -G), M D $(F_{2,46} = 49.203, p < 0.001),$ Det $(F_{3,69} = 58.348, p < 0.001)$. I M 1 7.544, p < 0.001, M D -Da $(F_{9,207} =$ D4 **∲** -G $(F_{4.116,94.658} = 4.488, p = 0.002, G$ M D), M $(F_{6,138} = 3.719,$ p = 0.002),1, M D , D4 Μ $(F_{18,414} = 2.824, p < 0.001).$ Ì A _ .

$$y_{i,j,k,m} = MD_{i,j} + b1_{i,j}x_k + b2_{i,j}x_k^2 + e_{i,j,k,m}$$
(1)

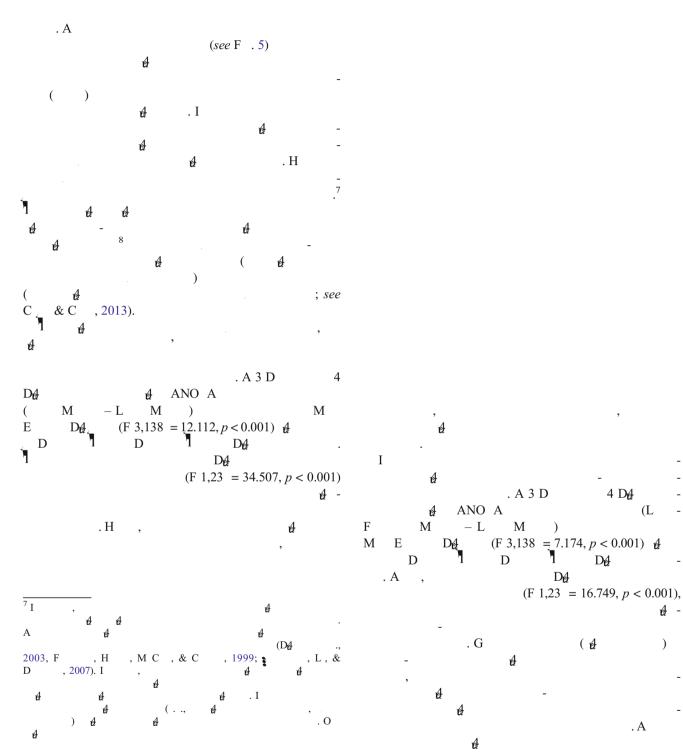
 $\begin{array}{c} & \mathcal{Y}_{i,j,k,m} \\ \mathbf{A} & m \ (1 \le m \le 24) \end{array}$





Does the object nature of the masking plane affect the ease with which targets can be compared?

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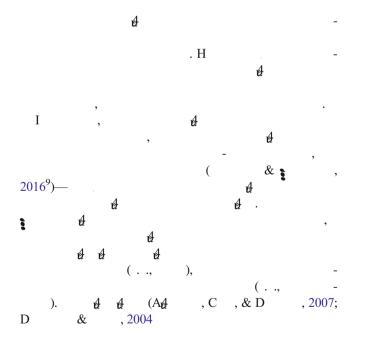
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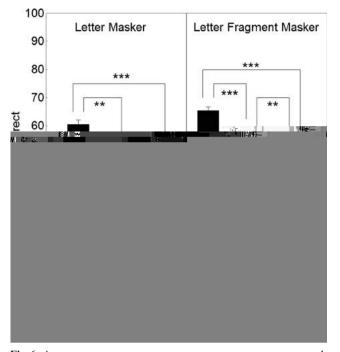


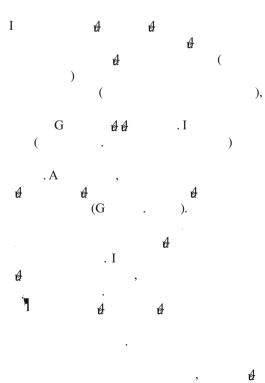
 Fig. 6 A
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 Standard error bars
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Limitations

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Summary

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Acknowledgements "973" N A \mathbf{C} (2015CB351800), В В H & 1 \mathbf{C} (L161100002616017), Ma Ú. Ν D С (863 : 2015AA016306), "985" , N 4 (G IN-9952-13). СĄ Е С L A 4 4 4.

Appendix

1 Ì $4\,\mathrm{M}$ A A 1 4 " 3 D 4 D4 144,518 1,104 ð A 147,996 E . 1 1,116 Η ð ANO A (L) ð L A ð Μ 10 ð A A ð · 🖥 4 10-36 E . 1 ð ð ð A . I L 7 Μ ð , *i*, М , i = 2i = 1, i = 3Ì *i* = 4 ð *j* = 1 j, (4) , j = 2) *j* = 3 (. 1 ð , *k*, A k = 1100-, k = 3 -400-, k = 2ð ð 1,000-700ð k = 4A A •

H0: $M D_{1,1} = M D_{1,2} = M D_{1,3}$ $M D_{2,1} = M D_{2,2} = M D_{2,3} = M D_{3,1} = M D_{3,2} = M D_{3,3}$ $M D_{4,1} = M D_{4,3}$ $b 1_{1,1} = b 1_{2,2}$ $b 1_{1,2} = b 1_{1,3} = b 2_{1,1} = b 2_{1,2} = b 2_{2,1} = b 2_{2,2} = b 2_{2,3} = 0$ $b 1_{2,1} = b 1_{3,2} = b 1_{3,3}$ $b 1_{3,1} = b 1_{4,1} = b 1_{4,2} = b 1_{4,3}$ $b 2_{3,1} = b 2_{4,1} = b 2_{4,2} = b 2_{4,3}$ $b 2_{3,2} = b 2_{3,3}$ (F 26,1116 = 0.99, p = 0.478). H

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lines

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$$\begin{split} MD_{1,1} &= MD_{1,2} = MD_{1,3} = 52.74 \\ MD_{2,1} &= MD_{2,2} = MD_{2,3} = MD_{3,1} = MD_{3,2} = MD_{3,3} = 46.65 \\ MD_{4,1} &= MD_{4,3} = 59.34 , \ MD_{4,2} = 55.70 \\ b \ 1_{1,1} &= b \ 1_{2,2} = \ .0132719 , \ b \ 1_{2,3} = \ .0.0181527 \\ b \ 1_{2,1} &= b \ 1_{3,2} = \ b \ 1_{3,3} = \ .0.0344126 \\ b \ 1_{3,1} &= b \ 1_{4,1} = \ b \ 1_{4,2} = \ b \ 1_{4,3} = \ .0.0655073 \\ b \ 2_{3,1} &= \ b \ 2_{4,1} = \ b \ 2_{4,2} = \ b \ 2_{4,3} = \ - \ .0.000037793 \\ b \ 2_{3,2} &= \ b \ 2_{3,3} = \ - \ .0.0000114286 \end{split}$$

А

H0:
$$M D_{1,2} = M D_{1,3}$$

 $b1_{1,2} = b1_{1,3} = b2_{1,2} = b2_{2,2} = 0$

1

$$H0: MD_{3,2} = MD_{3,3}$$

 $b \ 1_{3,2} = b \ 1_{3,3}$
 $b \ 2_{3,2}2 = b \ 2_{3,3}$

$$(F 3,1116 = 1.145, p = 0.459).$$

 $4, 4$

$$H0: MD_{2,2} = MD_{2,3}$$

b 1_{2,2} = b 1_{2,3}

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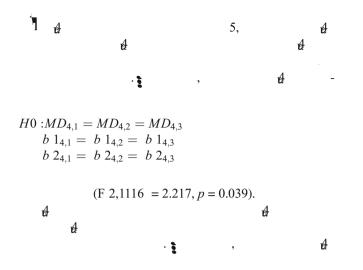
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0.015).
$$(F 3,1116 = 3.521, p = 4$$

$$H0: MD_{2,2} = MD_{2,3}$$
, (F 1.1116 = 0.

0.997). H ↔ (F 1,1116 = 0.000, p =

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 $H0 : MD_{4,1} = 2$

	, D. G., & , I	K. A. (2008	3). 1 4				
	. Nature	Neuroscier	nce, 11, 11	29-113	5.		
	, C. D., &	,	(2016). A E	-			,
	A	. Atte	ntion, Per	ception,	& Psyc	chophys	ics,
	78, 542–565.						
	, . (1970).			. E	Experime	ental Br	ain
	Research, 10, 380-3	88.					
	, . (1971). A	đ				. Jour	nal
	of the Optical Socie	ty of Amer	<i>ica, 61,</i> 41	0-414.			
2	, B., M ,	G., & J	, A. (19	89). B	4 4	ŀ	:
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A Journal of the American Academy of Audiology, 18, 559–572. • F., M , G., & , B. A. (1995). A -4 : -4 . Journal of Gerontology: Psychological

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- Sciences, 50B, 114–123. , F., M , G., & , B. A. (2001). B 4 -4 . Psychology and
- Aging, 16, 281–292. , A. M., & G , G. (1980). A 4 -. Cognitive Psychology, 12, 97–136. , . ., F , J., & E , I. E. (1975).
 - . Vision Research, 15, 705–712. . G., C , J., B , K. ., & A , D. (2010). B A : B A A A . Journal of Vision, 10(38), 1–12.