Creating Mental Images to Control and Communicate through Brain-Computer Interfaces in Individuals Who are Not Responsive

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Keywords: Bai-m, eiefae Mealimage⊠ eiei¶in¶al €mm iai €leimagig ealae Aiieeh lg⊠

Introduction

iei HiHal, ha h e ihl keH-i 🛛 H me - e eeem im aime , fae ba ial halle ge i e e i g hemele a \P i e a ig ih he e e al \P . B \bullet I e a glimme fh e, a e ^qig a^qii al mm i a i ba ie b e 'f ha e i g he e f e al ig al . Me al image 🕱, he im laige Beeiee ih ee al im ^yli, ha emege⁴ aaai la Bimiiga ah ihi heB II⁴ mai [1-3]. i a a a i la la mirga an ini nebola mar [1-5]. i a ilee le he i ile, halle ge, a a e iala li ai f me alimage ba e Boli i fa ilia ig la a mm i ai f i ai fa al' i hlimi e m f i . Me alimage bi le hea i ai f e al a hab ha im la ea i , e e ie e, e e i . e e e al e e lelomi h e be e i ga al holi al a i . gh f i al e imagi g ehie hafMRIa MEEG, eea he haeMeiheeMae fbaia ii 🛛 a ia 💾 ih ei mealak. i ha la 🎙 he f Nai f Ne Nigme alimage B-ela en ig al a n a laig hem i a i able mma n f BOI []. Me alimage B-ba en BÈI eae he emie ha hei e i ef m'e ai m eme geeae^sii e al a e .B⊠g aiig ma hie lea igalg ihm e HeH e al a ii 🕅 he e 🛛 em a lea e giehe i e iga e f^{eq}iee imagi⁹e^qai, hamigaha⁹⁴, kikigaball, ee a^gaig"^ge" me all.A e ge e a e he e me al mma 4, he Beli e e heii^ye i a a lae hemi mma 🎙 , e abli g le e al¶eieW hile he hem mm iae е fme al image 🛛 ba 🖓 B 🖬 i 🦳 mi i g, e e al halle ge m beatheet.Va'iabili 🛛 i e al a e a i ti 🖬 al, he ee¶feeiealibai ei¶,a¶ eibili⊠ i e a 🍕 aifa e bale e e i e im leme ai . 🛱 e e, g i g e ea h i miiga i g he e halle ge h gh el ig al eigehie, im elle le le g, a lm e b mahielea igalg ihm. Mee, hop the Boll ha mbie mlilefmfi, ham image 🛛 a 🎙 🖗 300-ba 🕰

a ahe, h e iali e ha ig he eliabili a 4 a a f mm iai . ea liai fme alimage b a e B e I a e a . I 4 i f4 al h e e e a e 4 i e ieb 4 ie a egai a embla e fage a 4 e gage ih hei 4 ig . e a mm iae ih l e e, e e 4 e ie, la i ie 4 e ie, a 4 e e ma i lae i ale i me . i e h l g a e a a ial l i mm iai ba ie b al a ie f 4 em i ala 4 a h l gi alim liai , e ha ig he ali f lifef b h hei 4 i f4 ala 4 hei a egi e [5,6].

Result and Discussion

e ima 🛛 me f hi 🍕 a he¶e ¶iga a 🛛 ahie e⁴i ig^yheme alimage⊠-ba^ye⁴bai - m e i efa e (B**€**I). Paiia e fll⊠ge eae Чii e al a e A ighemealimage⊠ak, lea4ig a ae4e 4ig f heiie4e4 mma4.A ai ak, heaeage4e 4ig a a⊠age‼fm.75% 0%,¶em. a i g he 🛛 em🛛 abili 🕅 W hile e all eliabl🗛^y a la eme al image 🛱 i a i able ЧеЧiga a⊠a miig,iЧiPH al aiabili⊠i eal ae eeeH hallege.Paiia ehibieH i ebai aii⊠iga e¶igmealimage⊠, eeiaige alie¶ alibăi imie 4e 4i gef ma e. i 4e e he im a e fa¶a i g he Boll ⊠em ea h i ¶i PA al⊠ e al ai fafee4bakmehaim igi a 🛽 e e.ei ima 🛃 aiia 🖾 bili 🕅 geeae i e me al mma ¶^y.



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gh gigieai ihheBol Sem, aiia e en hei me alimage a egie [7], leanig im en ne ne ni a a se e ime. i ieaie feenbakl e ha en he sem abilistan ib en be e e egageme. In so fi a' a he, mbi ig me al image ak ih e e - ela en e ial (IRP), e hibien mi ig e' l i mi igaig iean e ha ig eliabilistan figm li le e f e alnaa, he Bol sem a hie en gea e' abilistin e ni g mma n, e e iallisti halle gige i me ihhigh le el f ie i e fee e.

Me al image 🛛 f bai - m e i efa e la 4 mm i a i i - e i e i 4 i 4 al. e e l fhi 4 🖓 highligh he a f ma i e e i al fme al image 🖾 ba e 4 B e 1 f - e i e i 4 i 4 al. B 🖓 ha e i g he e fme al image 🖏 i 4 i 4 al h la k e i al mea f mm i a i a e e hei i e i ,i e a i h e h lg 🖓 a 4 mm i a e i h hei 4 i g. i b eak h ghha f 4 im li a i f e ha i g hei ali 🖗 flife a 4 e-e abli hi g hei age 🖗 e