

Page 1)

1.1) In the title, can the “a” starting “a perceptual level-model” please be capitalized? i.e., “A perceptual level-model” (I notice some variation in subtitle capitalization in your web page abstracts).

1.2) The affiliations are swapped. Prince is in Duluth, and Hollich is at Purdue. Lines 6 and 7 should be swapped with a and b remaining in place.

Page 3)

3.1) In the PDF file, the URL at the bottom of Table 1 actually links to the audacity web page, and should link to the URL as given.

3.2) Also with this same URL, can the line be typed either without the period at the end or can it end with a “/”? There is a risk that the reader, if typing the URL into a browser will include the period as part of the URL. I.e., can we please have either “<http://www.cprince.com/PubRes/JCSR04>” (no period) or “<http://www.cprince.com/PubRes/JCSR04/>” (ending in forward slash)

Page 4)

4.1) Can line 197 please appear as:

SenseStream (Mislivec, 2004; see also: Vuppla,

4.2) On line 232, Equation (3) is not a reference to an equation in the present manuscript. Instead, it refers to an equation in the HM (Hershey & Movellan, 2000) paper. Can you please remove the link on line 232 within the PDF file to Eq. (3) of the present manuscript? There should be no link on this line in the PDF file.

4.3) With Equation (1) on line 236, can the following changes be made:

4.3.1) Can the “=” please appear immediately to the right of the “ $M(x,y,t_k)$ ”?

4.3.2) Can the horizontal parenthetical structures (“{“ in the horizontal) have (a) lighter lines and (b) be a little higher than they are presently above the math line.

4.3.3) Can the (1a) and (1b) labels please be centered over the horizontal parenthetical structures.

4.3.4) Can there please be less space between the parts (1a) and (1b) of equation 1?

The following approximates most of these changes (but is not camera ready)--

$$M(x, y, t_k) = \overbrace{\frac{1}{2} \log_2 \frac{|\sum A(t_k)| |\sum V(x, y, t_k)|}{|\sum A, V(x, y, t_k)|}}^{(1a)} \overbrace{\left(1 - \frac{1}{2^{r\alpha}}\right)}^{(1b)} . \quad (1)$$

Page 5)

5.1) There is a small text label to the right and middle of Figure 1. (“Quicktime and decompressor are needed to see this picture”). Can this please not appear in the final PDF?

5.2) Footnote 2, immediately below line 293 should now read
 “See Section 3.2 of this paper for the results of some variation in values of S .”

5.3) Line 298 should end with a period.

5.4) On line 301, Equation 2 is on two lines and looks odd. Can you please introduce some brackets around the terms in the summation, and indent the second line. Something like (not camera ready)--

$$PIC(x, y, t) = \sum_{l, m = -1}^1 \left[F(x + l, y + m, t + 1) - F(x + l, y + m, t - 1) \right]$$

Page 6)

6.1) Can lines 316 and 317 please read:
 “using Eq. (1) as a *mixel*, for *mutual information pixel*, and refer to the entire output display”

Page 8)

8.1) Two words in the lower part of the legend for Figure 3 have spaces in them. They look like “Speec h” and “an d”

Page 9)

9.1) On line 537, can we please insert the word “is” between “case” and “robust” and have this line read:

“model in this case is robust to small changes in S .”

Page 13)

13.1) On line 754 and 755 can the “1/30th” be on one line only or can it read: $\frac{1}{30}$ th?

13.2) On line 764, can we please change “in” to “to” and have this line read:

“infant looking to the Cup versus Dog (and Cup-“

13.3) In Table 2:

13.3.1) The occurrence of “Proportion to left” on the far right is differently formatted from the other two occurrences of this phrase. Can the occurrence on the far right please also be formatted as:

“Proportion
to left”

13.3.2) The bottom two numbers in the fourth column from the left should be preceded with “0”s to be consistent with the rest of the numbers.

13.3.3) It looks odd to have a line break after the 2nd line below the table. (i.e., after 360). Can this line break please be removed?

13.3.4) For consistency with Table 3, can we have “Notes:” precede the last four lines (i.e., below the table)?

13.3.5) The four last lines (i.e., the notes) are arranged on separate lines, while in Table 3, they are on the same line. Can you please use the same style across the two tables?

Page 14)

14.1) On line 811, we had a typographical error—The reference to Table 3 should be a reference to Table 2. Can this reference please be changed to Table 2. Additionally, the first callout for Table 3 is on line 1033. Can Table 3 please be repositioned accordingly?

14.2) On line 816, can a space be inserted after the \leq sign and before the 360?

Page 15)

15.1) The section numbers from line 894 forward are in error. On line 894, the section number should be “6”

15.2) On line 912, the section number should be 6.1

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16.1) On line 1021, the section number should be 6.2

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17.1) On line 1075, the section number should be 7

17.2) On line 1076, the section number should be 7.1

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18.1) On line 1190, the section number should be 7.2

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19.1) On line 1253, the section number should be 8

19.2) Lines 1276-1277: the reference should be (Gogate & Bahrick, 1998, 2001). The 1998 is missing.

Page 21)

21.1) Line 1423: Can we please change “asynchrony” to “synchrony”?

21.2) Lines 1437-1439: Can we please change this to:
“in epigenetic robotics. Synchrony detection assists infants in learning relations between audio and visual stimuli, in sound source localization, and in”

Page 22)

22.1) Can lines 1513-1514 please be changed to:

“1995; research cited: Baldwin & Markman, 1989;
see also: Vouloumanos & Werker, 2004). Speech”

Page 23)

23.1) The citations starting on lines 1686 and 1695 should have the month along with the year to be consistent with the other conference paper citations:

Hollich, G. J., Mislivec, E. J., Helder, N. A., & Prince, C. G. (2004, October). Are you synching what I m synching? Modeling infants' real-time detection of audiovisual contingencies between face and voice. Poster presented at the international conference on development and learning (ICDL 04), La Jolla, CA.

Krichmar, J. L., Nitz, D. A., & Edelman, G. M. (2004, October). Object recognition, adaptive behavior and learning in brain-based devices. In Proceedings of the third international conference

on development and learning (ICDL), La Jolla, CA.

Page 24)

24.1) The citation on line 1718: Should start with a capital “A”: “Audio-visual...”

24.2) Can the three URLs on this page (lines 1721, 1751, and 1780) please not end in a period? As above, a reader might type the period as part of the URL. If you want, they could end with a forward slash (“/”).