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Effects Of Real-time Synaptic Plasticity Using A Spiking Neural Network Architecture

Anonymous Author(s)
Affiliation
Address
email

Abstract

A one paragraph abstract...

1 Introduction

2 Background

2.1 The Human Brain

2.2 Neural Networks

2.3 Spiking Neural Network Architecture

3 Design

4 Implementation

4.1 MATLAB

4.2 SpiNNaker

5 Results

6 Conclusion

7 Future Work

7.1 Style

blah

7.2 Retrieval of style files

The formatting instructions contained in these style files are summarized in sections 8, 9, and 10 below.

054 8 General formatting instructions

055
056 blah

057 058 059 9 Headings: first level

060
061 blah

062 063 9.1 Headings: second level

064
065 blahblah

066 067 9.1.1 Headings: third level

068
069 blahblahblah

070 071 10 Citations, figures, tables, references

072
073 These instructions apply to everyone, regardless of the formatter being used.

074 075 10.1 Citations within the text

076
077 Citations within the text should be numbered consecutively. The corresponding number is to appear
078 enclosed in square brackets, such as [1] or [2]-[5]. The corresponding references are to be listed in
079 the same order at the end of the paper, in the **References** section. (Note: the standard `BIBTEX` style
080 `unsrt` produces this.) As to the format of the references themselves, any style is acceptable as long
081 as it is used consistently.

082 083 10.2 Footnotes

084
085 Indicate footnotes with a number¹ in the text. Place the footnotes at the bottom of the page on which
086 they appear. Precede the footnote with a horizontal rule of 2 inches (12 picas).²

087 088 10.3 Figures

089
090 All artwork must be neat, clean, and legible. Lines should be dark enough for purposes of repro-
091 duction; art work should not be hand-drawn. The figure number and caption always appear after the
092 figure. Place one line space before the figure caption, and one line space after the figure. The figure
093 caption is lower case (except for first word and proper nouns); figures are numbered consecutively.

094
095 Make sure the figure caption does not get separated from the figure. Leave sufficient space to avoid
splitting the figure and figure caption.

096
097 You may use color figures. However, it is best for the figure captions and the paper body to make
sense if the paper is printed either in black/white or in color.

098 099 10.4 Tables

100
101 All tables must be centered, neat, clean and legible. Do not use hand-drawn tables. The table number
102 and title always appear before the table. See Table 1.

103
104 Place one line space before the table title, one line space after the table title, and one line space after
105 the table. The table title must be lower case (except for first word and proper nouns); tables are
numbered consecutively.

106
107 ¹Sample of the first footnote

²Sample of the second footnote

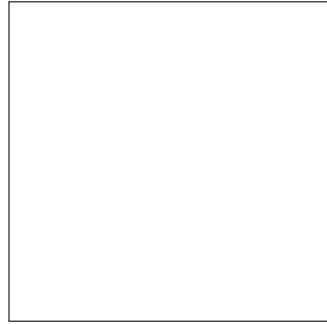


Figure 1: Sample figure caption.

Table 1: Sample table title

PART	DESCRIPTION
Dendrite	Input terminal
Axon	Output terminal
Soma	Cell body (contains cell nucleus)

11 Preparing PostScript or PDF files

Please prepare PostScript or PDF files with paper size “US Letter”, and not, for example, “A4”. The -t letter option on dvips will produce US Letter files.

Fonts were the main cause of problems in the past years. Your PDF file must only contain Type 1 or Embedded TrueType fonts. Here are a few instructions to achieve this.

Acknowledgments

Use unnumbered third level headings for the acknowledgments. All acknowledgments go at the end of the paper. Do not include acknowledgments in the anonymized submission, only in the final paper.

References

References follow the acknowledgments. Use unnumbered third level heading for the references. Any choice of citation style is acceptable as long as you are consistent. It is permissible to reduce the font size to ‘small’ (9-point) when listing the references. **Remember that this year you can use a ninth page as long as it contains *only* cited references.**

[1] Alexander, J.A. & Mozer, M.C. (1995) Template-based algorithms for connectionist rule extraction. In G. Tesauro, D. S. Touretzky and T.K. Leen (eds.), *Advances in Neural Information Processing Systems 7*, pp. 609-616. Cambridge, MA: MIT Press.

[2] Bower, J.M. & Beeman, D. (1995) *The Book of GENESIS: Exploring Realistic Neural Models with the GEneral NEural Simulation System*. New York: TELOS/Springer-Verlag.

[3] Hasselmo, M.E., Schnell, E. & Barkai, E. (1995) Dynamics of learning and recall at excitatory recurrent synapses and cholinergic modulation in rat hippocampal region CA3. *Journal of Neuroscience* **15**(7):5249-5262.