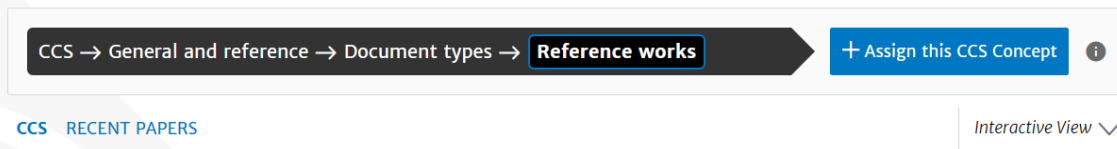# ACM-1

ACM-为提高文章通过率，请作者严格按照以下标准自检文章版面	
页面设置	页边距：上：3.1 厘米，下：5.01 厘米，左：2.54 厘米，右：3.6 厘米 纸张大小：Letter，宽度：21.59 厘米，高度：27.94 厘米 无网格
篇幅	全文单栏不能低于 8 页，双栏不能低于 5 页。
作者	请在文中备注所有作者的邮箱，每位作者的邮箱均是唯一的（通讯作者的邮箱必须用符号"*"标记清楚且邮箱必须有效，以便接收签署论文出版版权的邮件。）
CCS	根据 ACM 的出版要求，请在正文中关键词的下面补充 CCS CONCEPTS 部分。CCS 操作如下：登录 https://dl.acm.org/ccs 选择,根据自己研究方向选择类目，复制张贴 CCS 中所选类目的文字。**并将 CCS 的代码复制在文件的备注栏（请参考 ACM-2 的操作指引）。**
Keywords	至少 3 个关键词。
字体	全文字体： Linux Biolinum O；字号：小五；两端对齐（除专有名词、所有一级标题、以及首句首首字母字母大写以外，其余单词全部小写）
标题	Paper Title (字号小四 ，加粗，左对齐)
	一级标题格式统一（**大写**，字号 小五，加粗）
	二级标题格式统一（字号 小五，加粗）
	三级标题格式统一（字号 小五，斜体，加粗）
图片	图：图片必须要高清（阅读模式在 100%的比例下能清晰读取图中的文本数据），且图片中不能有中文字符。
	图：每张图片仅对应一个标题，如果有多张照片，请将多张照片整合成一张。
	图片标题：字号 8，居中（所有"Figure"不能缩写，标题末尾需要加句号）。所有图片必须要在正文中引用，且按阿拉伯数字顺序排序（如 Figure 1、2、3......）
表格	表格标题：字号 8，居中（所有"Table"不能缩写，标题末尾需要加句号）
	所有表格必须要在正文中引用，且按阿拉伯数字顺序排序（如 Table 1、2、3......）
公式	所有公式**必须使用 mathtype 或者 Word 自带的编辑器创建**，其它工具创建均无效。
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文献	所有文献必须注明出版年份。
	参考文献不能低于 5 条，且被引用的文献作者来源应来自三个或者三个以上国家，参考文献在正文中的引用需要以"[阿拉伯数字]"上标的形式标注。

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CCS 张贴指引：

1、 访问 CCS 链接：**https://dl.acm.org/ccs**
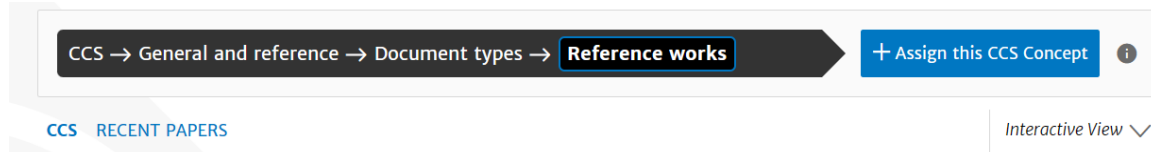
2、 根据文章的研究方向，选择符合文章内容的（三级）类目

3、 张贴 CCS（复制网页所选择的关键词，切勿随意更改）。
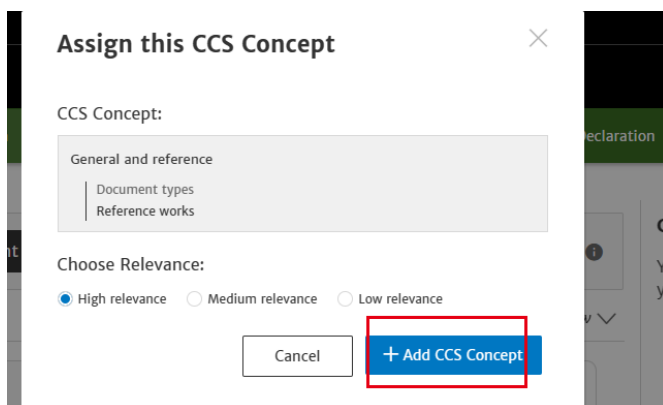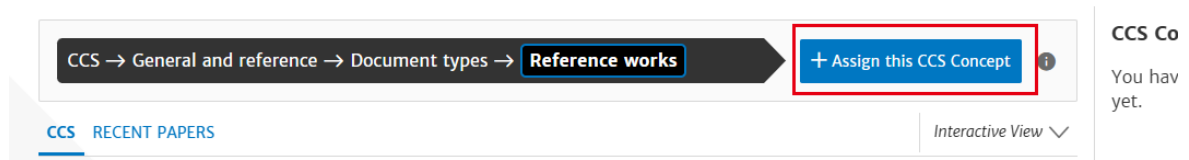
示例：CCS CONCEPTS：**General and reference ~ Document types ~ Document types**（示例仅供参考，切勿照抄照搬）

4、 复制代码

　① 选择类目

　② 添加 CCS

③ 创建代码

④ 复制代码至备注栏。备注路径："文件"→"信息"→"备注"。

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Abstract

Although there is no distinctive header, this is the abstract. This submission template allows authors to submit their papers for review to an ACM Conference or Journal without any output design specifications incorporated at this point in the process. The ACM manuscript template is a single column document that allows authors to type their content into the pre-existing set of paragraph formatting styles applied to the sample placeholder text here. Throughout the document you will find further instructions on how to format your text. If your conference's review process will be double-blind: The submitted document should not include author information and should not include acknowledgments, citations or discussion of related work that would make the authorship apparent. Submissions containing author identifying information may be subject to rejection without review. Upon acceptance, the author and affiliation information must be added to your paper.

CCS CONCEPTS

General and reference ~ Document types ~ Document types

Keywords

Keyword number 1, Keyword number 2, Keyword number 3, Keyword number 4

1 INTRODUCTION

ACM's new manuscript submission template aims to provide consistent styles for use across ACM publications, and incorporates accessibility and metadata-extraction functionality necessary for future Digital Library endeavors. Numerous ACM and SIG-specific templates have been examined, and their unique features incorporated into this single new template. If you are new to publishing with ACM, this document is a valuable guide to the process of preparing your work for publication. If you have published with ACM before, this document provides insight and instruction into the current process for preparing` your manuscript.

1.1 Accessibility

Following the guidelines throughout this template will also improve the accessibility of your manuscript and increase the audience for your work. Ensure that heading styles are applied as instructed, tables are created using Word's table feature (rather than an image), figures have a text equivalent, and list styles are applied as instructed.

1.1.2 More about the submission template. （一定要句号）

This submission version of your paper should not have headers or footers, these will be added when your manuscript is processed after acceptance. It should remain in a one-column format—please do not alter any of the styles or margins.

2 INSERTING CONTENT ELEMENTS

The next subsections provide instructions on how to insert figures, tables, and equations in your document.

2.1 Tables

Tables are "float elements" which should be inserted after their first text reference and have specific styles for identification. Do not use images to present tables, or they will be inaccessible to readers using assistive technologies.

Table 1. Styles available in the Word template.

Style Tag	Definition	Style Tag	Definition
Title_document	main title of article	ListParagraph	list items
Subtitle	subtitle of article	Statements	math statements
Authors	author name	Extract	block quotations
Affiliation	author affiliation information	Algorithm Caption	caption for algorithm
AuthNotes	footnote to author(s)	AckHead	heading for acknowledgements
Abstract	abstract text	AckPara	acknowledgements text
CCSHead	heading for CSS Concepts	GrantSponsor	sponsor of grant
CCSDescription	CSS terms	GrantNumber	number for the grant
KeyWordHead	heading for keywords	ReferenceHead	heading for references
Keywords	keywords text	Bib_entry	references
ORCID	author's ORCHID #	AppendixH1	appendix heading level 1
Head1	heading level 1	AppendixH2	appendix heading level 2
Head2	heading level 2	AppendixH3	appendix heading level 3
Head3	heading level 3	TableCaption	title of table
PostHeadPara	first paragraph after a heading	TableHead	column head of table
		TableFootnote	footnote to table
Para	Subsequent paragraphs of general text	Image	figures
ParaContinue	flush left text after display items like math equations, lists etc.	DOI	Digital object identifier
DisplayFormula	numbered math equation		
DisplayFormulaUnnum	unnumbered equations	Label	label[a]
ComputerCode	Display Computer codes	In-text code	intext computer code
Short Title	Short title of article		

2.2 Figures

Figures are "float elements" which should be inserted after their first text reference, and have specific styles for identification. Insert a figure and apply the "**Image**" paragraph style to it. For the figure caption, apply the style "**FigureCaption.**"

Figure 1. 1907 Franklin Model D roadster. Photograph by Harris & Ewing, Inc. [Public domain], via Wikimedia Commons. (https://goo.gl/VLCRBB)

Figure 3. The layout of multipart images should be as per the above example within the table. All images must have the "Image" style applied.

2.3   Equations

There are two types of math equations: the *numbered display math equation* and the *un-numbered display math equation*. Below are examples of both.

2.3.1DisplayFormula.

The **DisplayFormula** *style is applied in the numbered math equation. A numbered display equation always has an equation number (label) on the right.*

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \qquad (1)$$

2.4 Algorithms（算法不要放在表格中）

Algorithms use the styles "AlgorithmCaption" and "Algorithm".

ALGORITHM 1: Iterative Algorithm

---

current_position   center

current_direction   up

current_position is inside circle

while current_position is inside circle, do

        neighborhood all grid hexes within two hexes from current_position

        for each hex in neighborhood, do

            for each neuron in hex do

                convert neuron_orientation to vector

                scale vector by neuron_excitation

            vector_sum vector_sum + vector

      end

   end

  normalize vector_sum

end

---

3 CONCLUSION

Acknowledgments are placed before the references. Add information about grants, awards, or other types of funding that you have received to support your research. Author can capture the grant sponsor information, by selecting the grant sponsor text and apply style 'GrantSponsor'. After this, select grant no and apply 'GrantNumber' from style panel. Example of Grant sponsor: Competitive Research Programme and example of Grant no: CRP 10-2012-03.

ACKNOWLEDGMENTS

REFERENCES（一定要有出版年份）

[1] Atul Adya, Paramvir Bahl, Jitendra Padhye, Alec Wolman, and Lidong Zhou. **2004**. A multi-radio unification protocol for IEEE 802.11 wireless networks. In Proceedings of the IEEE 1st International Conference on Broadnets Networks (BroadNets'04) IEEE, Los Alamitos, CA, 210–217. https://doi.org/10.1109/BROADNETS.2004.8.

[2] Sam Anzaroot and Andrew McCallum. 2013. UMass Citation Field Extraction Dataset. Retrieved May 27, **2019** from http://www.iesl.cs.umass.edu/data/data-umasscitationfield.

[3] Martin A. Fischler and Robert C. Bolles. **1981**. Random sample consensus: a paradigm for model fitting with applications to image analysis and automated cartography. Commun. ACM 24, 6 (June 1981), 381–395.