



学术论文写作

LaTeX使用注意事项

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2018.04.16







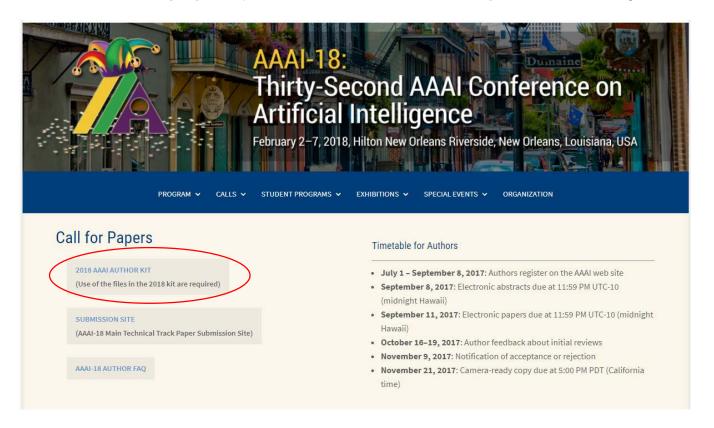


学术论文写作基本流程



以AAAI-18为例

1. 找到当年会议网站发布的最新模板;





学术论文写作基本流程



以AAAI-18为例

formatting-instructions-latex-2018.pdf

formatting-instructions-latex-2018.tex

1. 找到当年会议网站发布的最新模板;

BST 文件

TEX 文件

LaTeX Style

Adobe Acrobat ...

大小

22 KB

11 KB

58 KB

2. 仔细阅读Formatting说明。

2018 Formatting Instructions for Authors Using LATEX

AAAI Press

Association for the Advancement of Artificial Intelligence 2275 East Bayshore Road, Suite 160 Palo Alto, California 94303

Abstract

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名称

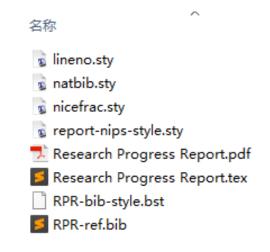
aaai.bst

😨 aaai18.stv



文件组成

- 内容
 - tex文件
 - bib文件
- 格式文件
 - sty文件 (style)
 - bst文件 (bibstyle)



类型

BIB 文件

LaTeX Style LaTeX Style LaTeX Style LaTeX Style Adobe Acrobat ... TEX 文件 BST 文件



原则:规范,清晰,简洁



规范 机器学习中有很多约定俗成的符号语言

\overline{m}	训练样本个数				
\overline{d}	数据维度				
D, \mathcal{D}	数据样本集合,概率分布				
(\mathbf{x}_i, y_i)	数据点对 (向量, 标量)				
•••	•••				



清晰

表达方面: 文字简练、公式明确

表现方面: 图片矢量、表格排版

等等



原则: self-contained; 清晰; 美观。

负样本

	1		1		l							_
colic	0.814	0.035	0.766-L	0.029	0.832-W	0.026	0.839-W	0.035	0.827-W	0.025	0.824	0.025
colic.ORIG	0.618	0.027	0.550-L	0.054	0.619	0.042	0.633-W	0.033	0.617	0.036	0.627	0.037
credit-a	0.861	0.014	0.783-L	0.03	0.864-W	0.013	0.862	0.014	0.853	0.042	0.854	0.033
fourclass	0.724	0.014	0.723	0.015	0.723	0.014	0.723	0.014	0.723	0.014	0.723	0.014
german	0.711	0.03	0.673-L	0.015	0.738-W	0.016	0.743-W	0.015	0.740-W	0.015	0.740-W	0.013
haberman	0.734	0.03	0.568-L	0.076	0.738	0.02	0.734	0.018	0.731	0.025	0.731	0.025
heart	0.799	0.029	0.809	0.032	0.791	0.03	0.801	0.027	0.794	0.026	0.797	0.026
house	0.942	0.015	0.845-L	0.026	0.968-W	0.011	0.965-W	0.01	0.968-W	0.012	0.968-W	0.011
isolet	0.995	0.003	0.935-L	0.026	0.997-W	0.002	0.998-W	0.003	0.997	0.005	0.997	0.005
parkinsons	0.846	0.038	0.718-L	0.041	0.865-W	0.03	0.858-W	0.027	0.860-W	0.026	0.856	0.040
planning	0.683	0.031	0.463-L	0.052	0.706-W	0.034	0.706-W	0.034	0.706-W	0.034	0.706-W	0.034
promoters	0.723	0.071	0.595-L	0.068	0.721	0.069	0.736	0.067	0.726	0.070	0.727	0.061
sonar	0.725	0.039	0.613-L	0.055	0.736	0.036	0.741-W	0.035	0.731	0.042	0.737	0.035
vehicle	0.959	0.012	0.738-L	0.033	0.959	0.013	0.961	0.011	0.958	0.012	0.958	0.012
vote	0.934	0.022	0.847-L	0.023	0.970-W	0.014	0.968-W	0.013	0.970-W	0.013	0.970-W	0.013
wdbc	0.963	0.012	0.887-L	0.022	0.968-W	0.011	0.969-W	0.011	0.952 -L	0.015	0.962	0.013
win/tie/lose			18/2/0		0/8/12		0/6/14		1/12/7		0/15/5	
	•		•									



原则: self-contained; 清晰; 美观。

(相对) 正样本

Table 2: Experimental results on LDL datasets. Each row corresponds to a data set. On each dataset, 10 test runs were conducted and the average performance as well as standard deviation are presented, - indicates numerical limits or errors. Besides, • (⋄) indicates that LALOT is significantly better (worse) than the compared method (paired t-tests at 95% significance level).

(a) Performance Measure: Chebyshev ↓

Dataset	IIS-LLD	PT-Bayes	PT-SVM	AA-BP	AA-KNN	LALOT
Image	.6749 ± .0065	$.6682 \pm .0103$.7305 ± .0465 •	.5863 ± .0370 o	.5130 \pm .0074 \circ	$.6850 \pm .0073$
JAFFE-5	$.1396 \pm .0046$.4251 ± .0270 •	$.1430 \pm .0053 \bullet$.1490 ± .0073 •	$.1444 \pm .0059 \bullet$	$\textbf{.1394} \pm \textbf{.0044}$
JAFFE-6	$.1207 \pm .0060$.3674 ± .0296 •	$.1220\pm.0057$ \bullet	.1265 \pm .0085 \bullet	$.1321\pm.0042$ \bullet	$\textbf{.1206} \pm \textbf{.0049}$
Emotions	$.4429 \pm .0138$	$.6659 \pm .0312 \bullet$	$.5526 \pm .0565 \bullet$.4087 \pm .0140 \circ	.3989 \pm .0155 \circ	$.4476 \pm .0153$
Yeast-alpha	.0201 ± .0002 •	$.1093\pm.0085$ $ullet$	$.0139 \pm .0003$	$.0358\pm.0022$ \bullet	$.0147\pm.0002$ \bullet	$\textbf{.0136} \pm \textbf{.0002}$
Yeast-cdc	.0232 ± .0005 •	$.1211\pm.0080$ $ullet$	$.0170 \pm .0005$	$.0370\pm.0019$ $ullet$	$.0176\pm.0003$ \bullet	$\textbf{.0168} \pm \textbf{.0003}$
Yeast-cold	.0618 ± .0007 •	$.2060 \pm .0155 ●$	$.0565 \pm .0033 \bullet$.0574 ± .0024 •	$.0553 \pm .0009 \bullet$	$\textbf{.0541} \pm \textbf{.0009}$
Yeast-diau	.0452 ± .0007 •	.1793 \pm .0126 \bullet	$.0439 \pm .0026 \bullet$	$.0471\pm.0015$ \bullet	.0395 \pm .0006 \circ	$.0418 \pm .0007$
Yeast-dtt	.0491 ± .0010 •	$.2019\pm.0188$ $ullet$	$.0380 \pm .0016 \bullet$	$.0443\pm.0022$ \bullet	$.0391 \pm .0007 \bullet$	$\textbf{.0370} \pm \textbf{.0006}$
Yeast-elu	.0239 ± .0004 •	.1254 ± .0076 •	$.0171 \pm .0004 \bullet$	$.0363\pm.0015$ $ullet$	$.0177\pm.0002$ $ullet$	$\textbf{.0167} \pm \textbf{.0002}$
Yeast-heat	.0526 ± .0006 •	$.1942\pm.0086$ $ullet$	$.0441 \pm .0009 \bullet$	$.0520\pm.0013$ $ullet$	$.0453 \pm .0003 \bullet$	$\textbf{.0435} \pm \textbf{.0005}$
Yeast-spo	.0653 ± .0010 •	.1855 \pm .0112 $ullet$	$.0625 \pm .0019 \bullet$.0664 ± .0035 •	$.0636 \pm .0008 \bullet$	$\textbf{.0603} \pm \textbf{.0012}$
Yeast-spo5	.0958 ± .0022 •	.2209 ± .0159 •	$.0923\pm.0025$ \bullet	.0927 ± .0021 •	$.0956 \pm .0014 \bullet$	$\textbf{.0908} \pm \textbf{.0015}$
Yeast-spoem	.0930 ± .0019 •	$.1909\pm.0144$ $ullet$	$.0916 \pm .0022 \bullet$	$.0892\pm.0050$ \bullet	$.0919 \pm .0022 \bullet$	$\textbf{.0887} \pm \textbf{.0013}$
Human Gene	$.0535 \pm .0007$.1826 \pm .0198 $ullet$	$.0540\pm.0040$ \bullet	$.0602\pm.0009$ \bullet	$.0647 \pm .0007$ ●	$\textbf{.0532} \pm \textbf{.0007}$
LALOT W/T/L	10/ 5/ 0	14/ 1/ 0	13/2/0	13/ 0/ 2	12/ 0/ 3	rank first 12/15



小trick

• 控制表格宽度

 $\resizebox{0.85} \text{textwidth}{{!}{...}}$

```
demonstration.tex
    \begin{table}[t]
    \centering
    \caption{Statistics of 15 real-world datasets}
    \\label\{\table-datasets}
 6 \resizebox{0.85\textwidth}{!}{
 7 \begin{tabular}{c|c|ccc}\hline
8 \multicolumn{1}{c|}{Index} & \multicolumn{1}{c|}{Datasets}& \multicolumn{1}{c}{\#instance} & \
    multicolumn{1}{c}{\dim} & \multicolumn{1}{c}{\dim} & \multicolumn{2}{c}{\multicolumn{2}} \
 9 1 & JAFFE-5
                         & 181
                                     & 18
                                              & 5
   2 & JAFFE-6
                         & 213
                                     & 18
                                              & 6
      & Emotions
                         & 593
                                     & 72
                         & 2000
                                     & 135
                                             & 5
12 4 & Image
                        & 2,465
                                     & 24
                                             & 18
      & Yeast-alpha
                         & 2,465
                                     & 24
                                              & 15
      & Yeast-cdc
    7 & Yeast-cold
                         & 2,465
                                     & 24
                                              & 4
   8 & Yeast-diau
                        & 2,465
                                     & 24
                                     & 24
17 9 & Yeast-dtt
                        & 2,465
                                              & 4
18 10 & Yeast-elu
                        & 2,465
                                     & 24
                                             & 14
19 11 & Yeast-heat
                        & 2,465
                                     & 24
                                             & 6
                         & 2,465
                                     & 24
                                             & 6
20 12 & Yeast-spo
                         & 2,465
                                     & 24
                                             & 3
21 13 & Yeast-spo5
                         & 2,465
                                     & 24
                                             & 2
   14 & Yeast-spoem
23 15 & Human Gene
                         & 30,542
                                     & 36
                                             & 68
                                                        \\ \hline
    \end{tabular}}
25 \end{table}
```



小trick

• 控制表格内字体大小以及字体样式

表 5.10 caption 宏包预定义的 font 选项值

类别	选项值	等价字体命令	效果
字号	scriptsize	\scriptsize	非常小
	footnotesize	\footnotesize	很小
	small	\small	较小
	normalsize	\normalsize	正文文字大小
	large	\large	较大
	Large	\Large	很大
字体族	rm	\rmfamily	罗马体 Roman family
	sf	\sffamily	无衬线体 Sans Serif family
	tt	\ttfamily	打字机体 Typewriter family

表格来源:LATEX入门,刘海洋,电子工业出版社,P344.



小trick

• 加粗后字符不对齐问题

Table 2 Test table demonstration

Dataset	ECDD-WT	SVM-fix	SVM-ada	DWM	RLS	DFOP
hyperplane hyperplane hyperplane hyperplane hyperplane	$76.10 \pm 0.29 \bullet$	$87.98 \pm 0.03 \bullet$ $87.98 \pm 0.03 \bullet$ $76.14 \pm 0.11 \bullet$ $76.14 \pm 0.11 \bullet$ $76.14 \pm 0.11 \bullet$	$81.94 \pm 0.07 \bullet$ $81.94 \pm 0.07 \bullet$ $81.94 \pm 0.07 \bullet$ $88.36 \pm 0.25 \bullet$ $88.36 \pm 0.25 \bullet$	$88.36 \pm 0.25 \bullet$ $88.36 \pm 0.25 \bullet$ $88.36 \pm 0.25 \bullet$ $88.36 \pm 0.25 \bullet$ $88.36 \pm 0.25 \bullet$	$69.67 \pm 1.40 \bullet$ $69.67 \pm 1.40 \bullet$ $69.67 \pm 1.40 \bullet$ $69.67 \pm 1.40 \bullet$ $69.67 \pm 1.40 \bullet$	$\begin{array}{c c} 90.14 \pm 0.05 \\ 90.14 \pm 0.05 \end{array}$

\DeclareFixedFont{\myfont}{OT1}{ptm}{m}{n}{8pt} \DeclareFixedFont{\myfontb}{OT1}{ptm}{bx}{n}{8pt}

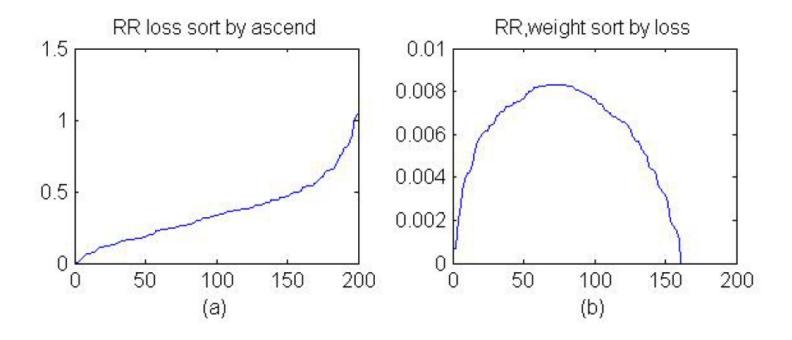
hyperplane &\myfont{76.10 \$\pm\$ 0.29}\$\bullet\$ &\myfontb{76.14 \$\pm\$ 0.11}\$\bullet\$

LaTeX图片规范



原则: self-contained; 清晰; 美观。

负样本



LaTeX图片规范



原则: self-contained; 清晰; 美观。

(相对) 正样本

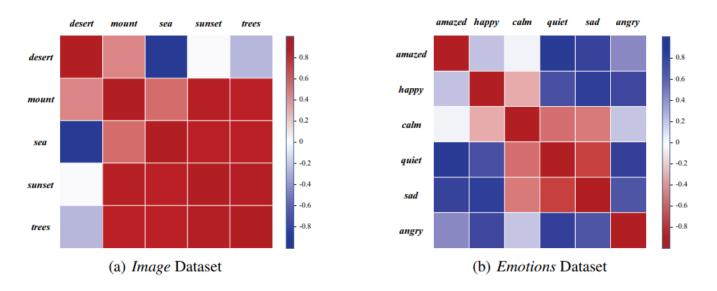


Figure 1: Illustration of learned label correlations for different datasets, and the value has been scaled in [-1,1]. Red color indicates a positive correlation, and blue one indicates a negative correlation.

LaTeX图片规范



注意事项:

- •插入图片需要用eps或pdf格式(保证矢量);
- 如果需要图片中出现并列,分开画,用\subfigure包 插入tex文件中;
- •图(以及表格),都应处于文章最上方(或最下方);

•



小trick

● 多张图片并列放置 (以及双栏显示)
subfigure指令以及\begin{figure*} \end{figure*}

\usepackage{subfigure}

```
\begin{figure*}[!t]
  \centering
  \subfigure[\textit{Image} Dataset]{ \label{fig-metric-image}
      \includegraphics[height=0.27\textwidth]{figure/learned-metric/
      learned_metric-image.pdf}} \hspace{0.5in}
  \subfigure[\textit{Emotions} Dataset]{ \label{fig-metric-emotions}
      \includegraphics[height=0.27\textwidth]{figure/learned-metric/
      learned_metric-emotions.pdf}}
  \caption{Illustration of learned label correlations for different
      datasets, and the value has been scaled in [-1,1]. Red color indicates a
      positive correlation, and blue one indicates a negative correlation.}
  \Label{fig-metric}
\end{figure*}
```



小trick

- 图片位置指定
 - 一般使用figure[!t]指令,图片置于页面顶端

行内对齐

- 居中对齐\centering
- 左对齐 \raggedright
- 右对齐 \raggedleft

不要用\begin{center}和\end{center},
否则前面和后面会有空白段落

JOURNAL OF LATEX CLASS FILES, VOL. XX, NO. X, XXXX 20XX

indicate *ambiguities* rather than a single meaning in linkage generation. Hence, the distance/similarity measurements are *overdetermined* in these applications. As a consequence, a new type of multi-metric learner which can describe the ambiguous linkages is desired.

In this manuscript, we propose a Unified Multi-Metric Learning (UM²L) approach which integrates the consideration of linking semantic ambiguities and localities in one framework. In the training process, more than one metric is learned to measure the distance between instances and each of them reflects a type of inherent spatial or semantic properties of objects. During the test, UM²L can automatically pick up or integrate these measurements since semantically/spatially similar data points have small distances and otherwise they are pushed away from each other; such a mechanism enables the adaptation to complex environments to some degree [16].

In detail, UM²L regards multiple metrics as various spatial or semantic components, and similarities over a pair of objects are generated based on different properties of them, i.e., coming from multiple perspectives. Both types of side information, the direct pairwise comparison or the

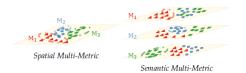


Figure 1: Illustration of the difference between spatial and semantic learned multiple metrics $\{M_1, M_2, M_3\}$. The left plot shows the multiple metrics with spatial locality, while the right plots presents the semantic multi-metric case. Different colors denote different classes. Dashed lines indicate the contours of learned metrics. Although anchored on different centers with multiple spatial metrics, there is actually only one responsible metric for a particular example in the first case, which has distinct differences from the multiple choices of metric candidates in the

2 NOTATIONS AND PRELIMINARIES

semantic multi-metric scenario.

Given a dataset containing N instances $\mathcal{D} = \{\mathbf{z}_i = (\mathbf{x}_i, y_i)\}_{i=1}^N$, instance $\mathbf{x}_i \in \mathbb{R}^d$ is sampled from a d-dimensional feature space \mathcal{X} while label value y_i is generated from a scalar label space \mathcal{Y} , and $\mathcal{Z} = \mathcal{X} \times \mathcal{Y}$. Generally

图表注意细节



在图表中

• \label要在\caption后面, 否则虽然不会报错, 但实际的编号是错的

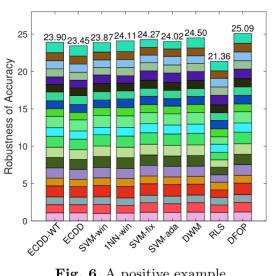


Fig. 6 A positive example.

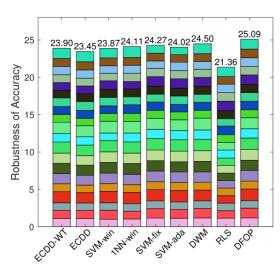


Fig. 7 A negative example.

Here, we show the positive example in Figure 6 and the negative example in Figure C.

图表注意细节



在图表中

• \label要在\caption后面,否则虽然不会报错,但实际的编号是错的

```
\begin{figure}[!ht]
\centering
\includegraphics[width=0.45\textwidth]{figure/robustness.pdf}
\caption{A positive example.}
\LabeL{figure:positive}
\end{figure}
\begin{figure}[!ht]
\centering
\includegraphics[width=0.45\textwidth]{figure/robustness.pdf}
\LabeL{figure:negative}
\caption{A negative example.}
\end{figure}
```

公式环境



要定义一些指令环境

```
\usepackage{amsthm}
\theoremstyle{definition}
\newtheorem{myDef}{Definition}
\newtheorem{myThm}{Theorem}
\newtheorem{myProp}{Proposition}
\newtheorem{myProp}{Lemma}
\newtheorem{myLemma}{Lemma}
\newtheorem{myConj}{Conjecture}
\newtheorem{myCorj}{Corollary}
\newtheorem{myRemark}{Remark}
```

```
\begin{myDef}[$\Delta_p$-Reconstruction]
\begin{equation*}
  \Delta_p(\mathbf{y}) := \mathop{\arg\min}_{\mathbf{x} \in \mathbf{x} \n\ mathbf{x}^D} \lvert \mathbf{x} \rvert_p, \text{ s.t. }
  M\mathbf{x} = \mathbf{y},
  \end{equation*}
where the $\ell_p$-norm is defined by $\lvert \mathbf{u}\\
rvert_p = (\sum |u_i|^p)^{1/p}$.
\end{myDef}
```

Definition 1 (Δ_p -Reconstruction).

$$\Delta_p(\mathbf{y}) := \underset{\mathbf{x} \in \mathbb{R}^D}{\operatorname{arg\,min}} \|\mathbf{x}\|_p, \text{ s.t. } M\mathbf{x} = \mathbf{y},$$

where the ℓ_p -norm is defined by $\|\mathbf{u}\|_p = (\sum |u_i|^p)^{1/p}$.

公式环境



注意公式中的字符

• 当公式中出现一些字符时候,需要用\mbox间隔出来, 注意字符前后的空格

```
\begin{equation}
  f(\mathbf{x}) =
  \begin{cases}
  \lvert \mathbf{x} \rvert & \mbox{ when } \mathbf{x} = 1 \mbox{ (positive example)}\\
  2\lvert \mathbf{x} \rvert & when \mathbf{x} = 1 (negative example)
  \end{cases}
\end{equation}
```

$$f(\mathbf{x}) = \begin{cases} \|\mathbf{x}\| & \text{when } \mathbf{x} = 1 \text{ (positive example)} \\ 2\|\mathbf{x}\| & when \mathbf{x} = 1 (negative example) \end{cases}$$

公式环境



注意公式后的符号

•未完结,使用,作为分隔;已结束,使用.作为分隔。

```
\begin{equation}
  \hat{\mathbf{w}} = \argmin_{\mathbf{w}\in \mathcal{W}} f(\mathbf{w}),
\end{equation}
where $\mathcal{W}$ is the domain of feasible $\mathbf{w}$.

Thus, for any $\mathbf{w}\in \mathcal{W}$, we have
\begin{equation}
  f(\hat{\mathbf{w}}) = f(\mathbf{w}).
\end{equation}

Hence, we complete the proof.
```

$$\hat{\mathbf{w}} = \underset{\mathbf{w} \in \mathcal{W}}{\operatorname{argmin}} f(\mathbf{w}), \tag{33}$$

where W is the domain of feasible \mathbf{w} .

Thus, for any $\mathbf{w} \in \mathcal{W}$, we have

$$f(\hat{\mathbf{w}}) = f(\mathbf{w}). \tag{34}$$

Hence, we complete the proof.

注意红色箭头处,没有空行;黄色箭头处,需要插入空行。

关于参考文献



使用bibtex

• 利用好dblp网站(http://dblp.uni-trier.de/)



相比于google scholar, dblp更专注于计算机类的文献,提供的bibtex质量更好一些

关于参考文献



2016

```
■ ② C C Zhi-Hua Zhou:

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200( S BibTeX

RDF N-Triples
RDF/XML

dblp key:
journals/fcsc/Zhou16a

poerationalization of 'flow' in mathematics learnware. Computers in Human Behavior 23(4): 2064-2092 (2007)

Zhi-Hua Zhou:

export record
Ware: on the future of machine learning. Frontiers Comput. Sci. 10(4): 589-590 (2016)

Barro:
gent Patient Monitoring: From Hardware to Learnware. IWINAC (1) 2009: 38-45

d operationalization of 'flow' in mathematics learnware. Computers in Human Behavior 23(4): 2064-2092 (2007)
```

```
@article {DBLP: journals/fcsc/Zhou16a,
          = {Zhi{-}Hua Zhou}.
 author
       = {Learnware: on the future of machine learning},
        = {Frontiers Comput. Sci.}
                                          整个bib文件中的期刊会议名称需统一,
         = \{10\},
  volume
                                  例如会议名称,切勿有的写NIPS,有的写Advances in Neural
          = \{4\}.
 number
                                            Information Processing Systems...之类。
          = \{589 - -590\},\
 pages
          = {2016}.
          = {https://doi.org/10.1007/s11704-016-6906-3},
 url
          = \{10.1007/s11704-016-6906-3\},
                                                                         这部分不需要, 删掉
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          = {https://dblp.org/rec/bib/journals/fcsc/Zhou16a},
 biburl
                                                                   只需要保留重要的会议/期刊信息
 bibsource = {dblp computer science bibliography, https://dblp.org
```



一些容易混淆的LaTeX符号

• \cdots vs \ldots

Some examples:

```
a_1,\ldots,a_n aligns better than a_1,\cdots,a_n.

But a_1 \to \ldots \to a_n aligns worse than a_1 \to \cdots \to a_n.

The alignment chosen by amsmath is usually the one commonly found in mathematical articles. However, I guess its not really wrong or anything to deviate from it.
```

$$a_1, \dots, a_n \text{ vs. } a_1, \dots, a_n.$$

$$a_1 \to \dots \to a_n \text{ vs. } a_1 \to \dots \to a_n.$$

https://tex.stackexchange.com/questions/117730/what-is-the-difference-between-ldots-and-cdots



一些容易混淆的LaTeX符号

• \emph vs \textit 在很多地方,实际上是可以通用的

positive example positive example

\emph{positive example}
\textit{positive example}

但在一些情况宏包中,不是通过斜体来进行强调,这时二者不等价。比如¹

the beamer class makes \emph text red as this works better in presentations than using italic

https://tex.stackexchange.com/questions/1980/emph-or-textit



一些容易混淆的LaTeX符号

• space (__) vs ~

~\cite ~\ref

negative example

Dynamic Environments are the real scenario for most learning algorithms to perform. Thus, machine learning under dynamic, non-stationary environments is of great importance (Sugiyama and Kawanabe, 2012). Plenty of efforts have paid in various directions, like dealing with distribution change in streaming data (Gama *et al.*, 2014); novel class detection (Zhu *et al.*, 2017); Mu *et al.*, 2017); dynamic pricing in the auction (Keskin and Zeevi, 2017); and also appear in many other applications (Hanneke *et al.*, 2015; Hou and Zhou, 2018).

positive example

Dynamic Environments are the real scenario for most learning algorithms to perform. Thus, machine learning under dynamic, non-stationary environments is of great importance (Sugiyama and Kawanabe) 2012). Plenty of efforts have paid in various directions, like dealing with distribution change in streaming data (Gama *et al.*) 2014); novel class detection (Zhu *et al.*) 2017; Mu *et al.*) 2017); dynamic pricing in the auction (Keskin and Zeevi, 2017); and also appear in many other applications (Hanneke *et al.*) 2015; Hou and Zhou, 2018).



一些容易混淆的LaTeX符号

• 范数符号

错误写法: II·II

正确写法: \lVert \rVert

||X||

||X||

• 单双引号

错误写法: ""

"negative example"

正确写法: ``"

错误写法: ''

正确写法: ` '

"positive example"

'negative example'

'positive example'

"negative example"
``positive example''

'negative example'
`positive example'

•



一些容易混淆的LaTeX符号

• \cdots vs \ldots

```
Some examples:  a\_1, \exists a\_1,
```

 $a_1 \to \ldots \to a_n \text{ vs. } a_1 \to \cdots \to a_n.$

https://tex.stackexchange.com/questions/117730/what-is-the-difference-between-ldots-and-cdots



未完待续

Thanks!