

IEEJtran.bst:
Unofficial IEEJ \BIBTEX style
(ver. 0.18)

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Abstract

The IEEJtran \BIBTEX style is an unofficial citation format for Institute of Electrical Engineers of Japan transactions. It is a customization of Michael Shell's IEEEttran.bst. A Python script named mixej.py enables one content with both English and Japanese format to be handled properly.

1 Introduction

IEEJtran.bst is an unofficial \BIBTEX -style (.bst) file in IEEJ format developed for Japanese users engaging in electrical engineering. YoshiRi implemented natural Japanese notation based on Michael Shell's IEEEttran.bst[?]. And now the author develops it in GitHub repository [?] after taking it over. Please note IEEJtran.bst is unofficial. The author does not guarantee that it will work in all environments. We cannot be held responsible for any problems that may occur. We recommend platex/pbibtex or uplatex/upbibtex as \TeX engines.

2 Configuration

If IEEJtran.bst has been installed by \TeX Live package manager, etc., and placed under PATH, write `\bibliographystyle{IEEJtran}` in the preamble to complete the setup. In the case that IEEJtran.bst is individually downloaded and placed in the same directory as the main \TeX file such a reason for customization, state `\bibliographystyle{IEEJtran}` in the preamble in the same way to complete the setting. In the .bib file containing bibliographic information, Japanese authors' names should be written as:

```
author = {{Yamada Taro} and {Sato Jiro}},
```

or

```
author = {Yamada, Taro and Sato, Jiro}.
```

3 Combine English and Japanese entries

Japanese users are sometimes required to write both English and Japanese citation formats as one bibliography entry. A python script named `mixej.py` included in the `ieejtran` package enables combining English and Japanese entries. To combine two entries of `enkey` and `jpkey`, users have to cite as `\cite{enkey/ej/jpkey}`, where `enkey` and `jpkey` are English and Japanese citation keys, respectively. Then compile by the following seven steps:

```
uplatex → python mixej.py → upbibtex → python mixej.py  
→ uplatex → uplatex → dvipdfmx
```

instead of the typical five steps:

```
uplatex → upbibtex → uplatex → uplatex → dvipdfmx.
```

Note that the `uplatex` command is Unicode and Japanese compatible latex command.

The Japanese version of this document, `ieejtran.pdf`, shows examples for English and Japanese combined citations.