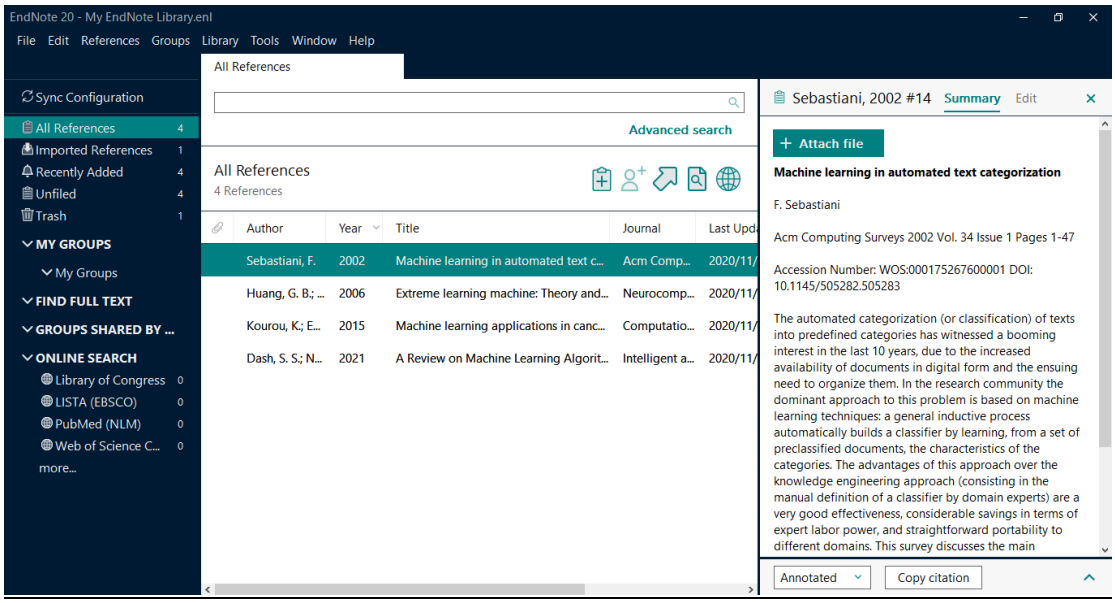
Homework on literature search & reference management

1. Please list five or more of the important library databases related to your majors.

•Web of Science, •Engineering Village, •Springer, •IEEE/IEE Electronic Library, • ACM Digital Library, • EBSCO

2. Firstly, search literature on the area that you are interested in (e.g., "arithmetic for computers", etc.) through the library database Web of Science. Then do the following exercises:

(1) Install the reference manager EndNote in your laptop via http://lic.si.sjtu.edu.cn/Softs/good/id/1642. Then, save the complete bibliographic records of two or more articles that you are interested in, including the abstracts, to your EndNote or other reference manager.

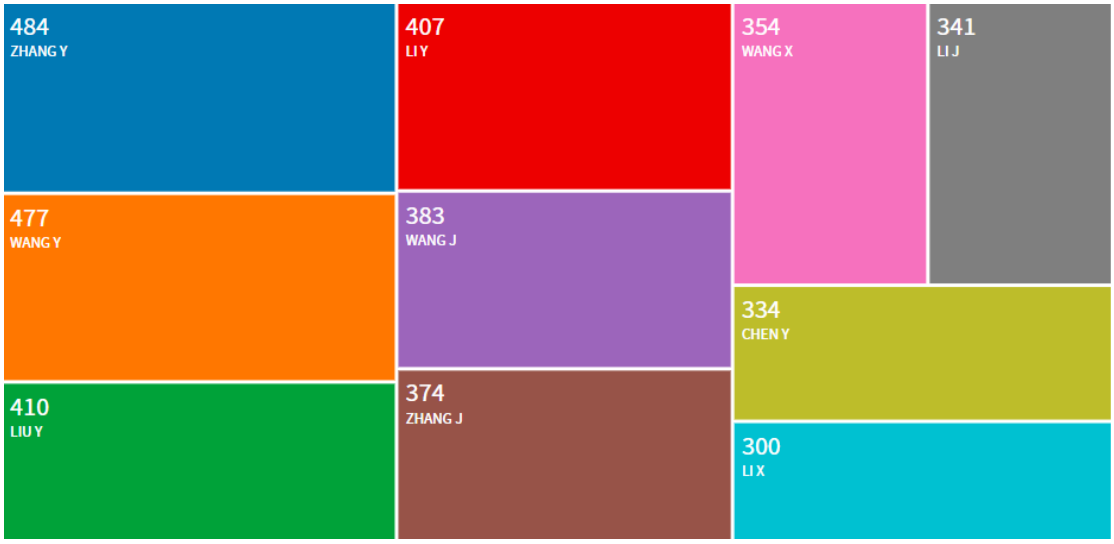


(2) Analyze the records searched through Web of Science, and answer the following questions:

1) Describe the publication year distribution of the searched records.

The records related to "machine learning" increased year by year. But before 2010, the rate of increase is low. After 2010, it increases dramatically, especially in year 2016-2019, which reveals how hot machine learning has been in recent years.

2) Who writes the most articles? (Please write the author name and the numerial number of articles he or she wrote, and paste related screen capture.)



ZHANG Y writes 484 articles related to this topic, becoming the person who writes most in this topic.

3) Whose articles are the most concerned? (You could choose by highly cited papers, frequently-used articles, etc. Please write the related information and paste the screen capture.)

The most concerned article is *Scikit-learn: Machine Leaning in Python*, written by Pedregosa, Fabian; Varoquaux, Gaeel; Gramfort, Alexandre; et al. it introduces the module integrated in Python called Scikit-learn, which can be used for medium scale supervised and unsupervised problems.

Notes:

1. Use key words in the literature search, e.g., “cloud computing”. Besides, try to use different forms, representative synonyms and near-synonyms of the key words, e.g., different forms and synonyms of “electric vehicle*” can be “electric car*”, EV, etc.
2. When you want to access the databases off campus, you could try the VPN Service or Proxy Service: http://net.sjtu.edu.cn/wlfw/xywdl.htm.

(Created by Ms. Qinling Huang, mechanical engineering librarian of SJTU)