

为了方便前端调用，将所有的solr功能封装在2个php接口solrSearch.php和solrMLT.php中。

1. solrSearch.php

搜索内容`content`是一个字符串，使用utf-8编码。

type取值	实现功能
0	abstract单字段检索
1	title单字段检索
2	全字段检索
3	abstract单字段检索，返回带有 高亮 字段的结果
4	title单字段检索，返回带有 高亮 字段的结果
5	全字段检索，返回带有 高亮 字段的结果

为了方便前端数据的使用，后端对于高亮部分的数据进行了重新组合。在solr配置端修改了高亮的默认标签（前端可能无法通过url修改参数hl.simple.pre和hl.simple.post进而高亮样式，因为html标签在http里面传输会有点问题，我还没发现可行的办法，所以现在只能使用一种固定高亮的格式。如果想修改高亮的样式，只能在服务器上修改），前端获得的json中后端已将高亮标签插入，可以直接进行展示。如下图所示。

[{"id": "12", "title": "算法", "abstract": "一种更高效的算法", "time": "2019-05-24 22:22:44", "price": "0", "url": "http://www.zdoubleleaves.cn/rsp/pdf/.pdf", "type": "1"}, {"id": "3", "title": "\u03bc\u03b5-\u03b5 \u03c6", "abstract": "关联算法", "time": "2019-05-07 00:00:00", "price": "0", "url": "http://www.zdoubleleaves.cn/rsp/pdf/.pdf", "type": "1"}, {"id": "4", "title": "\u03bc\u03b5-\u03b5 \u03c6", "abstract": "关联算法", "time": "2019-05-07 00:00:00", "price": "0", "url": "http://www.zdoubleleaves.cn/rsp/pdf/.pdf", "type": "1"}, {"id": "5", "title": "GovZVRKV//CnYo/yneLBwHpgbJrAlBtBhaQo57ot4sI8ORDm.pdf", "abstract": "算法", "time": "2019-05-07 00:00:00", "price": "0", "url": "http://www.zdoubleleaves.cn/rsp/pdf/.pdf", "type": "1"}, {"id": "6", "title": "ncDZmCaV31iZwdtlKoi49eN5g5vEHMmIHGnc1b v8Xaf4PxyvA/paiDiagram_1.pdf", "abstract": "算法", "time": "2019-05-07 00:00:00", "price": "0", "url": "http://www.zdoubleleaves.cn/rsp/pdf/.pdf", "type": "1"}]

输出列表中第一个json的abstract, 得到结果如下图所示。

一种更高效的算法

2. solrMLT.php

solrMLT.php需要提供一个参数：科技成果**id**。将返回与输入id的摘要相似度高的科技成果列表。

例如输入id=8，将返回的结果如下

```
[{"id":"9","title":"测试标题","abstract":"测试摘要","time":"2019-05-07 00:00:00","price":"0","url":"http://www.zdoubleleaves.cn/rsp/pdf/$2y$10$SN0ikDJR9H65MI3Hgy6g2.H0uyZhmeWuxwH.GzF0sisv04unZU4XiDiagram 1.pdf","type":"1"}, {"id":"10","title":"测试标题","abstract":"测试摘要","time":"2019-05-07 00:00:00","price":"0","url":"http://www.zdoubleleaves.cn/rsp/pdf/$2y$10$D3Cu5CMG.gVsbPAXghgBaO4MEJQBP.6iHDq4Jx2MKaihmYFApA5Fy赵双叶jl.pdf","type":"1"}]
```

输入id=11，将返回的结果如下

```
[{"id":"12","title":"算法","abstract":"一种数据挖掘方法","time":"2019-05-07 00:00:00","price":"0","url":"","type":"1"}]
```