

# XML Search Gateway Information

Sample query:

```
http://search.computer.org/advanced/strip_result.jsp?yearTo=2005&yearFrom=1870&monthTo=12&monthFrom=01&sortField=DocWeight&sortOrder=a&chkabs=yes&isFirsttime=true&res_sz=100&check=cga%2bconcurrency%2bdt&query=NASA&qtype=1&qOpt1=confulltext
```

## ***1. Explanation of parameters.***

### **Required Parameters**

#### **yearTo**

**example value=2005**

The last year of published content to be included in the results set. Valid dates are 1979 through current year (four digits required).

#### **yearFrom**

**example value=1870**

The first year of published content to be included in the results set. Default value is "1870", valid dates are any year through current year (four digits required).

#### **monthTo**

**example value=12**

If selecting content from a particular year, monthTo specifies which month ends the result set. Valid values are 01-12 (two digits required).

#### **monthFrom**

**example value=01**

If selecting content from a particular year, monthFrom specifies which month starts the result set. Valid values are 01-12 (two digits required).

#### **sortField**

**example value=DocWeight**

Specifies that the database field used to order the results. Valid values are DocWeight, which will order the results by relevance, or DC\_DATE\_ISSUE, which will order the results by publication date.

## **sortOrder**

**example value=a**

No options, not implemented.

## **chkabs**

**example value=yes**

Indicates if abstract field should be included in determining relevance. Options are yes or no, but results are generally the same.

## **isFirstTime**

**example value=true**

Do not change.

## **res\_sz**

**example value=100**

Do not change.

## **check**

**example value= cga%2bconcurrency%2bdt**

The content areas the query will be run against. Each should be separated by “%2b”.

Possible values

annals

cise

computer

cga

concurrency

dt

intelligent

internet

itpro

micro

multimedia

software

pc

Security

tc

tkde

tpds

tpami

tse

tvcg

tmc

tcbb

tdsc

proceedings

Format should be:

check=cga%2bconcurrency%2bdt

## **query**

**example value=NASA**

First query term

## **qtype**

**example value=1**

Determines the query type: full text, Boolean, or parametric.

Possible values:

qtype=1

Use if query is a full text search

Additional parameter for full text search

### **qOpt1**

Determines the field to search on. For full text search, should be:

confulltext

Sample:

[http://search.computer.org/advanced/strip\\_result.jsp?yearTo=2005&yearFrom=1870&monthTo=12&monthFrom=01&sortField=DocWeight&sortOrder=a&chkabs=yes&isFirsttime=true&res\\_sz=100&check=cga%2bconcurrency%2bdt&query=NASA&qtype=1&qOpt1=confulltext](http://search.computer.org/advanced/strip_result.jsp?yearTo=2005&yearFrom=1870&monthTo=12&monthFrom=01&sortField=DocWeight&sortOrder=a&chkabs=yes&isFirsttime=true&res_sz=100&check=cga%2bconcurrency%2bdt&query=NASA&qtype=1&qOpt1=confulltext)

qtype=2

Use if performing a Boolean search. Boolean searches can take only two parameters at this time.

Additional parameters for Boolean search

### **qOpt1**

Determines the first field to search on. options are:

confulltext

DC\_TITLE

DC\_CREATOR

DC\_DATE\_ISSUE

**rOperator**

Determines type of Boolean used.

Possible values:

AND

OR

NOT

**query2**

Second query term in a Boolean search.

**qOpt2**

Determines the second field to search on. Options are:

confulltext

DC\_TITLE

DC\_CREATOR

DC\_DATE\_ISSUE

Sample:

[http://search.computer.org/advanced/strip\\_result.jsp?yearTo=2005&yearFrom=1870&monthTo=12&monthFrom=01&sortField=DocWeight&sortOrder=a&chkabs=yes&isFirsttime=true&res\\_sz=100&check=cga%2bcurrency%2bdt&query=packet&qtype=2&qOpt1=confulltext&rOperator=AND&query2=switching&qOpt2=confulltext](http://search.computer.org/advanced/strip_result.jsp?yearTo=2005&yearFrom=1870&monthTo=12&monthFrom=01&sortField=DocWeight&sortOrder=a&chkabs=yes&isFirsttime=true&res_sz=100&check=cga%2bcurrency%2bdt&query=packet&qtype=2&qOpt1=confulltext&rOperator=AND&query2=switching&qOpt2=confulltext)

qtype=3

Use if the query is a parametric search. This will search the requested field for an exact occurrence of the query string. Parameters can be searched on the title, author, or date.

Additional parameter for parametric search

**qOpt1**

Determines the field to search on. For parametric search, options are:

confulltext — use to perform an exact phrase search on the full text.

DC\_TITLE — use for title search

DC\_CREATOR — use for author name search

DC\_DATE\_ISSUE — use for date search

Sample:

[http://search.computer.org/advanced/strip\\_result.jsp?yearTo=2005&yearFrom=1870&monthTo=12&monthFrom=01&sortField=DocWeight&sortOrder=a&chkabs=yes&isFirsttime=true&res\\_sz=100&check=cga%2bcurrency%2bdt&query=virtual&qtype=3&qOpt1=DC\\_TITLE](http://search.computer.org/advanced/strip_result.jsp?yearTo=2005&yearFrom=1870&monthTo=12&monthFrom=01&sortField=DocWeight&sortOrder=a&chkabs=yes&isFirsttime=true&res_sz=100&check=cga%2bcurrency%2bdt&query=virtual&qtype=3&qOpt1=DC_TITLE)

## Notes:

There is no need to use quote marks. Exact phrase searches can be performed by using qtype=3 and qOpt=confulltext.

This version of the interface accepts two Boolean fields only.

Special characters are as-is. I welcome any input as to how to implement your suggestions.

DTD is "my.dtd". Full DTD is as follows.

```
<!-- ENTITIES DECLARATIONS -->
<!ENTITY % ISOnum PUBLIC
    "ISO 8879-1986//ENTITIES Numeric and Special Graphic//EN" "isonum.ent">
<!ENTITY % ISOpub PUBLIC
    "ISO 8879-1986//ENTITIES Publishing//EN" "isopub.ent">
<!ENTITY % ISOtech PUBLIC
    "ISO 8879-1986//ENTITIES General Technical//EN" "isotech.ent">
<!ENTITY % ISODia PUBLIC
    "ISO 8879-1986//ENTITIES Diacritical Marks//EN" "isodia.ent">
<!ENTITY % ISOgrk1 PUBLIC
    "ISO 8879-1986//ENTITIES Greek Letters//EN" "isogr1.ent">
<!ENTITY % ISOgrk3 PUBLIC
    "ISO 8879-1986//ENTITIES Greek Symbols//EN" "isogr3.ent">
<!ENTITY % ISOgrk3 PUBLIC
    "ISO 8879-1986//ENTITIES Greek Symbols//EN" "isogr4.ent">
<!ENTITY % ISolat1 PUBLIC
    "ISO 8879-1986//ENTITIES Added Latin 1//EN" "isolat1.ent">
<!ENTITY % ISolat2 PUBLIC
    "ISO 8879-1986//ENTITIES Added Latin 2//EN" "isolat2.ent">
<!ENTITY % cssym PUBLIC "-//IEEE-CS//ENTITIES Symbols//EN" "cssym.ent">
<!ENTITY % cs-xml PUBLIC "-//IEEE-CS//ENTITIES Symbols//EN" "cs-xml.ent">
<!ENTITY % cs-xml PUBLIC "-//IEEE-CS//ENTITIES Symbols//EN" "csweb.ent">

<!-- ELEMENT DECLARATIONS -->
<!ELEMENT ABSTRACT_URL (#PCDATA)>
<!ELEMENT ACM_URL (#PCDATA)>
<!ELEMENT DC_ABSTRACT (#PCDATA)>
<!ELEMENT DC_CREATOR (#PCDATA)>
<!ELEMENT DC_DATE (#PCDATA)>
<!ELEMENT DC_DOI (#PCDATA)>
```

<!ELEMENT DC\_PAGES (#PCDATA)>  
<!ELEMENT DC\_SOURCE (#PCDATA)>  
<!ELEMENT DC\_TITLE (#PCDATA)>  
<!ELEMENT HTML\_URL (#PCDATA)>  
<!ELEMENT PDF\_URL (#PCDATA)>  
<!ELEMENT QUERY\_TEXT (#PCDATA)>  
<!ELEMENT RESULT (DC\_TITLE, DC\_SOURCE, DC\_CREATOR, DC\_DATE, DC\_PAGES,  
DC\_ABSTRACT, HTML\_URL, PDF\_URL, ABSTRACT\_URL, ACM\_URL, DC\_DOI)>  
<!ELEMENT RESULTS (QUERY\_TEXT, RESULT\_SIZE, RESULT)>  
<!ELEMENT RESULT\_SIZE (#PCDATA)>  
<!ELEMENT XML (RESULTS)>