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%2bdtt&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
calendar
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%2bc concurrency%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**
Determined type of Boolean used.
Possible values:
- AND
- OR
- NOT

**query2**
Second query term in a Boolean search.

**qOpt2**
Determined 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%2bdlt&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%2bdlt&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" "isogrk1.ent">
<!ENTITY % ISOgrk3 PUBLIC
"ISO 8879-1986//ENTITIES Greek Symbols//EN" "isogrk3.ent">
<!ENTITY % ISOgrk4 PUBLIC
"ISO 8879-1986//ENTITIES Greek Symbols//EN" "isogrk4.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 % csweb 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)>