# ProQuest Advanced Tech & Aerospace Professional

Date revised: 29 July 2021

## Description

Coverage of more than 3,000 periodicals covering diverse high-tech and aerospace domains, including communications and navigation, lasers, fluid mechanics, mathematics and computers.  Additionally includes extensive collections of patent and conference information.

## Included Databases

- Aerospace Database
- Computer & Information Systems Abstracts
- Electronics & Communications Abstracts
- Solid State & Superconductivity Abstracts

The following thesauri are available:

- NASA Thesaurus
- Technology Terms Thesaurus

## Date Coverage

1962-present

## Geographic Coverage

International

## Subject Coverage

- Aeronautics
- Artificial intelligence
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- Communications and networks
- Electronics and electrical engineering
- Nuclear and high energy physics
- Optics
- Robotics
- Software engineering
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## Document Types

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# Sample document

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### Smith Predictor Type Control Architectures for Time Delayed Teleoperation

Smith, Andrew C; Hashtrudi-Zaad, Keyvan 🔀. **International Journal of Robotics Research** 25.8  (1 Aug. 2006): 797-818.

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**AB**  ⊟ **Abstract (summary)**  Translate

An early control methodology for time delayed plants is the Smith predictor, in which the plant model is utilized to predict the non-delayed output of the plant and move the delay out of the control loop. Recent Smith predictor based teleoperation control architectures have used linear or fixed-parameter dynamic approximations of the slave/environment at the master for environment contact prediction. This paper discusses and analyzes the performance of the previous work and proposes new architectures to overcome their shortcomings…

⊟ **Indexing (details)**  ▤ Cite

| Field | | |
|---|---|---|
| **SU, SUBT** | Subject | Mathematical models;<br>Smith predictors;<br>Power plants;<br>Neural networks;<br>Nonlinear dynamics;<br>Delay |
| **TI** | Title | Smith Predictor Type Control Architectures for Time Delayed Teleoperation |
| **AU,AUFN,AULN** | Author | Smith, Andrew C[1]; Hashtrudi-Zaad, Keyvan |
| **AF** | | [1] Robotics and Computer Vision Laboratory, Department of Electrical and Computer Engineering, Queen's University, Walter Light Hall, Kingston, Ontario, Canada |
| **LA** | Language | English |
| **DTYPE** | Document type | Journal Article |
| **PUB** | Publication title | International Journal of Robotics Research |
| **PD, YR** | Publication date | 1 Aug. 2006 |
| **SRC** | Source details | International Journal of Robotics Research. Vol. 25, no. 8, pp. 797-818. 1 Aug. 2006 |
| **VO** | Volume | 25 |
| **ISS** | Issue | 8 |
| **PG** | Pagination | 797-818 |
| **PCT** | Page count | 22 |
| **ISSN** | ISSN | 0278-3649 |
| **PB** | Publisher | Sage Science Press, 2455 Teller Road, Thousand Oaks, CA, 91320, USA, [mailto:sagescience@sagepub.com], [URL:http://www.sagepub.com] |
| **SFL** | Subfile | Mechanical & Transportation Engineering (MT); ANTE: Abstracts in New Technologies and Engineering (AN); Computer & Information Systems (CI); Electronics & Communication (EA) |
| **DOI** | DOI | http://dx.doi.org/10.1177/0278364906068393 |
| **NR** | Number of references | 31 |

2

# Search fields

ProQuest Advanced Tech & Aerospace Professional is comprised of four sub-databases – see *Included Databases*, above. Note that not all databases contain every field listed here.

| Field Name | Field Code | Example | Description and Notes |
|---|---|---|---|
| Abstract | AB | ab("smith predictor") | Use adjacency and/or Boolean operators to narrow search results. |
| Abstract present | ABANY | "teleoperation control architectures" AND abany(yes) | Add: *AND ABANY(YES)* to a query to limit retrieval to records with abstracts. |
| Accession number | AN | an(200707-53-420841) | A unique document identification number assigned by the information provider.<br><br>A record can display multiple accession numbers – depending on the products within which it is stored. |
| All fields | ALL | all("machine learning algorithm*") | Searches all fields in bibliographic files. Use adjacency and/or Boolean operators to narrow search results. |
| All fields + text | -- | "machine learning algorithm*" | Same as ALL field code: searches all fields in bibliographic files. |
| Author[1]<br>Author First Name<br>Author Last Name | AU<br>AUFN<br>AULN | au("hashtrudi, k*")<br>aufn(jack)<br>auln(baker) | Includes all authors.<br><br>See also First author. |
| First author | FAU | fau("smith, a*") | First name listed in Author field. It is included in Author browse, but its position cannot be specified in the Author browse. |
| Corporate author | CA | ca(lockheed OR Marietta) | |
| Author affiliation | AF | af("queen's university") | Where available, includes data such as department, organization, address, city ,state, country, author email, etc. |
| Cited author[2] | CAU, REF | cau(thomas harris) | Authors of cited works. |
| Cited document title[2] | CTI, REF | cti(glucose and xylose) | |
| Cited publication date[2] | CYR, REF | cyr(2009) | |
| Cited publication title[2] | CPUB, REF | cpub("biotechnology for biofuels") | |
| Conference information | CF | cf(international P/2 aeronautics)<br><br>cf(glasgow)<br><br>cf(sweden)<br><br>cf(2008) | |
| Date revised | DREV | drev(>20070331) | Date that the Information Provider revised the record. |

| Field Name | Field Code | Example | Description and Notes |
|---|---|---|---|
| | | | Date range searching is supported. |
| DOI | DOI | doi(doi.org/10.1177/0278364906068393) | Digital Object Identifier |
| Document feature | DF | df(graphs) | Indicates presence in original article of availability of graphics, tabular data, illustrations, etc. |
| Document title | TI | ti("Constraint-Based System for Genomic Analysis") | Includes Alternate (OTI), but not Publication title (PUB). |
| Title only | TIO | tio(aeronautic* N/10 "open source") | Searches only the Title, not Alternate title or Subtitle. |
| Alternate title | OTI | oti(energiedissipation) | Usually the original, non-English title |
| Document type | DTYPE | dtype("case study") | |
| First available | FAV | fav(2014-06-30)<br><br>fav(>20121231)<br><br>fav(20120101-20120630) | Indicates the first time a document was loaded in a specific database on PQD. It will not change regardless of how many times the record is subsequently reloaded, as long as the accession number does not change.<br><br>Date range searching is supported. |
| From database[3] | FDB | ti("jet propulsion") AND fdb(advancetechaeroprof)<br><br>ti("jet propulsion") AND fdb(10000195) | Useful in multi-file searches to isolate records from a single file. FDB cannot be searched on its own; specify at least one search term then AND it with FDB. |
| ISBN | ISBN | isbn(9781267839718) | |
| ISSN | ISSN | issn(0278-3649)<br><br>issn(02783649) | Also retrieves electronic ISSNs.<br><br>Hyphens are optional. |
| Issue | ISS | iss(8) | Also searchable via the Look Up Citation tool. |
| Journal title | JN | pub(International Journal P/1 Information P/1 Education Technology) | Journal names only. For complete Publication name types, use PUB.<br><br>Displayed in *Publication title* field.<br><br>Also searchable via the Look Up Citation tool for Publication name. |
| Language | LA | la(english) | The language in which the document was originally published. |
| Notes | NT | nt(reprint*) | |
| Page count | PCT | pct(22) | |
| Pagination | PG | pg(797-818) | See also Start page. |
| Patent application number | PA, PAT | pa("09/523128") | Displayed in *Patent information* field. |
| Patent application date | PAD | pad(20101201)<br><br>pad(2010-12-01)<br><br>pad(>20101231)<br><br>pad(20110101-20110630) | Displayed in *Patent information* field.<br><br>Date range searching is supported. |
| Patent application number | PA, PAT | pa("d/372,641") | Displayed in *Patent information* field. |
| Patent assignee | AP, PAT | ap(boeing) | Displayed in *Patent information* field. |
| Patent publication country | PC, PAT | pc(us) | Displayed in *Patent information* field. |

| Field Name | Field Code | Example | Description and Notes |
|---|---|---|---|
| Patent publication number | PN, PAT | pn(d638085)<br>pn(us d638085) | Displayed in *Patent information* field. |
| Publication date | PD | pd(20120726)<br><br>pd(20120726)<br><br>pd(>20120630)<br><br>pd(20120701-20120831) | Also searchable via the Look Up Citation tool.<br><br>Date range searching is supported. |
| Publication title[1] | PUB | pub.exact("International Journal of Information and Education Technology") | Title of publication where document originally appeared. Also searchable via the Look Up Citation tool. |
| Publication type | PT, STYPE | pt("scholarly journals") | |
| Publication year | YR, PY | yr(2012)<br><br>yr(>2011)<br><br>yr(2011-2012) | Single year or a range of years may be searched.<br><br>Displayed in *Publication date* field. |
| Publisher | PB | pb("sage science") | |
| References | REF | ref("patent citation analysis") | |
| Source type | PT,STYPE | pt("conference papers & proceedings") | Searches references cited in the original document. |
| Start page | PAGE | page(797) | Also searchable on the Look Up Citation page.<br><br>Displays in Pagination. |
| Subfile | SFL | sfl("Electronics and Communications Abstracts")<br><br>sfl(ea) | The individual database(s) in which the record appears.<br><br>Also searchable using two-letter codes. |
| Subject | SU | su("mathematica models")<br><br>su(delay) | Descriptor terms describing the subject matter of the original record. |
| Main subject[1] | SUBT | subt("neural networks") | SUBT searches terms from the *Subject* display field only. |
| Updates | UD | ud(>20121231)<br><br>ud(20130101-20130630) | The date(s) the record was loaded as a result of an update provided by the supplier.<br><br>Date range searching is supported. |
| Volume | VO | vo(25) | |
| Word count | WC | wc(>5000) | Also searchable via the Look Up Citation tool. |

[1] A look-up/browse feature is available for this field in the Advanced Search drop-down.
[2] Cited reference data – though searchable - does not currently display in records.
[3] Click the "Field codes" hyperlink at the top right of the Advanced Search page. Click "Search syntax and field codes", then click on "FDB command" to get a list of database names and codes that can be searched with FDB.

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Field codes are used to search document fields, as shown in the sample document. Field codes may be used in searches entered on the **Basic Search**, **Advanced Search**, and **Command Line** search pages. **Limit options**, **Look up lists, Thesaurus**, and **"Narrow results by" filters** tools are available for searching. Some data can be searched using more than one tool.

# Limit options

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**Date limiters** are available in which you can select single dates or ranges for date of **publication** and **updated**.

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# Look up citation

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| **Detailed view** | Brief view plus a 3-line KWIC window. | ✓ | |
| **KWIC (Keyword in Context)** | Detailed view plus all occurrences of your search terms, highlighted within the fields where the terms occur. | ✓ | ✓ |
| **Preview** | Title, Author, Publication title, Pagination, Publication date, Abstract, Subject terms. | ✓ | |
| **Brief citation** | Complete record minus Abstract and Indexing | ✓ | ✓ |
| **Citation / Abstract** | Complete record with Abstract | ✓¹ | ✓ |
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