

# ProQuest Advanced Tech & Aerospace Professional

Date revised: January 20, 2026

## 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

## Subject Coverage

- Aeronautics
- Artificial intelligence
- Atomic and molecular physics
- Communications and networks
- Electronics and electrical engineering
- Nuclear and high energy physics
- Optics
- Robotics
- Software engineering
- Telecommunications

The following thesauri are available:

- NASA Thesaurus
- Technology Terms Thesaurus

## Date Coverage

1962-present

## Update Frequency

Monthly

## Geographic Coverage

International

## Document Types

- Books
- Conference Papers
- Dissertations and Theses
- Patents
- Reports
- Scholarly Journals

## Publisher

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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.

Highlighting: Off | Single | Multi

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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](#)

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

DREV	Date revised	2007-07-01
AN	Accession number	200707-53-420841 (MT), 2007044601 (AN), 200707-65-083931 (CI), 200707-44-053916 (EA)
	Document URL	<a href="http://search.proquest.com/professional/docview/29931077?accountid=174015">http://search.proquest.com/professional/docview/29931077?accountid=174015</a>
FAV	First available	2010-04-30
	Database	ProQuest Advanced Tech & Aerospace Professional (1962 - current)

## 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. 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 <sup>1</sup> Author First Name Author Last Name	AU AUFN AULN	au("hashtredi, k*") aufn(jack) auln(baker)	Includes all authors. 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 <sup>2</sup>	CAU, REF	cau(thomas harris)	Authors of cited works.
Cited document title <sup>2</sup>	CTI, REF	cti(glucose and xylose)	
Cited publication date <sup>2</sup>	CYR, REF	cyr(2009)	
Cited publication title <sup>2</sup>	CPUB, REF	cpub("biotechnology for biofuels")	
Conference information	CF	cf(international P/2 aeronautics) cf(glasgow) cf(sweden) 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) fav(>20121231) 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.  Date range searching is supported.
From database <sup>3</sup>	FDB	ti("jet propulsion") AND fdb(advancetechaeroprof) 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) issn(02783649)	Also retrieves electronic ISSNs.  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.  Displayed in <i>Publication title</i> field.  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	pa("09/523128")	Displayed in <i>Patent information</i> field.
Patent application date	PAD	pad(20101201) pad(2010-12-01) pad(>20101231) pad(20110101-20110630)	Displayed in <i>Patent information</i> field.  Date range searching is supported.
Patent application number	PA	pa("d/372,641")	Displayed in <i>Patent information</i> field.
Patent assignee	AP	ap(boeing)	Displayed in <i>Patent information</i> field.
Patent publication country	PC	pc(us)	Displayed in <i>Patent information</i> field.

Field Name	Field Code	Example	Description and Notes
Patent publication number	PN	pn(d638085) pn(us d638085)	Displayed in <i>Patent information</i> field.
Publication date	PD	pd(20120726) pd(20120726) pd(>20120630) pd(20120701-20120831)	Also searchable via the Look Up Citation tool. Date range searching is supported.
Publication title <sup>1</sup>	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) yr(>2011) yr(2011-2012)	Single year or a range of years may be searched. Displayed in <i>Publication date</i> 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. Displays in Pagination.
Subfile	SFL	sfl("Electronics and Communications Abstracts") sfl(ea)	The individual database(s) in which the record appears. Also searchable using two-letter codes.
Subject	SU	su("mathematica models") su(delay)	Descriptor terms describing the subject matter of the original record.
Main subject <sup>1</sup>	SUBT	subt("neural networks")	SUBT searches terms from the <i>Subject</i> display field only.
Updates	UD	ud(>20121231) ud(20130101-20130630)	The date(s) the record was loaded as a result of an update provided by the supplier. Date range searching is supported.
Volume	VO	vo(25)	
Word count	WC	wc(>5000)	Also searchable via the Look Up Citation tool.

<sup>1</sup> A look-up/browse feature is available for this field in the Advanced Search drop-down.

<sup>2</sup> Cited reference data - though searchable - does not currently display in records.

<sup>3</sup> 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.

# Search tools

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

Limit options are quick and easy ways of searching certain common concepts. Check boxes are available for:

### **Peer reviewed, Scholarly journals**

Short lists of choices are available for:

### **Source type, Document type and Language**

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

## Look up lists

You can browse the contents of certain fields by using Look Up lists in the fields drop-down for:

### **Author, Publication title, Subject heading (all)**

## “Narrow Results By” filters

When results of a search are presented, the results display is accompanied by a list of “Narrow results by” options shown on the right-hand panel. Click on any of these options and you will see a ranked list showing the most frequently occurring terms in your results. Click on the term to apply it to (“narrow”) your search results. Narrow results by limiters in this database include:

**Peer reviewed, Scholarly journals, Source type, Publication title, Document type, Record type, Subject, Classification, Language, Database, Publication date.**

## Look up citation

If you need to trace a particular bibliographic reference, use the Look Up Citation feature. Find a link to this toward the top left of the Advanced Search page, or in the drop list under Advanced on any search form; click this and you will go to a page where you can enter any known details of the citation, including: Document title, Author, Publication title, ISSN, ISBN, Volume, Issue, Page, Publication date, DOI.

## Document formats

Pre-defined document formats are available for viewing and download. Search results can be downloaded with the Download all results, Email, Print and Export/Save options, and when creating an alert. To design your own download format, choose the “Custom” format option and check the fields to be displayed.

Document Format	Fields	Online	Export / Download
<b>Brief view</b>	Title, Author, Publication title, Volume, Issue, Supplement, Pagination, and Publication date.	✓	
<b>Detailed view</b>	Brief view plus a 3-line KWIC window.	✓	
<b>KWIC (Keyword in Context)</b>	Detailed view plus all occurrences of your search terms, highlighted within the fields where the terms occur.	✓	✓
<b>Preview</b>	Title, Author, Publication title, Pagination, Publication date, Abstract, Subject terms.	✓	
<b>Brief citation</b>	Complete record minus Abstract and Indexing	✓	✓
<b>Citation / Abstract</b>	Complete record with Abstract	✓ <sup>1</sup>	✓
<b>Custom</b>	Choose the fields you want		✓ <sup>2</sup>

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<sup>1</sup> In Online-view mode, PQD gives access to two Document Formats only: *Brief citation*, and the ‘most complete’ format available. Depending on the database, or the amount of data available for a record, the most complete format may be any one of *Citation*, *Citation/Abstract*, *Full text*, or *Full text - PDF*.

<sup>2</sup> Custom export/download format is available in the following mediums only: HTML, PDF, RefWorks, RTF, Text only.