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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

SU, SUBT	Subject	Mathematical models; Smith predictors; Power plants; Neural networks; Nonlinear dynamics; 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

	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	http://search.proquest.com/professional/docview /29931077?accountid=174015
	FAV	First available	2010-04-30
		Database	ProQuest Advanced Tech & Aerospace Professional (1962 - current)

SEARCH FIELDS

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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[1] Author First Name Author Last Name	AU AUFN AULN	au("hashtrudi, 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[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) cf(glasgow) cf(sweden) cf(2008)	
Date revised	DREV	drev(>20070331)	Date that the Information Provider revised the record. Date range searching is supported.

Field Name	Field Code	Example	Description and Notes
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[3]	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 *Publication title* 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, PAT	pa("09/523128")	Displayed in *Patent information* field.
Patent application date	PAD	pad(20101201) pad(2010-12-01) pad(>20101231) pad(20110101-20110630)	Displayed in *Patent information* field. 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.
Patent publication number	PN, PAT	pn(d638085) pn(us d638085)	Displayed in *Patent information* field.
Publication date	PD	pd(20120726)	Also searchable via the Look Up Citation tool.

Field Name	Field Code	Example	Description and Notes
		pd(20120726) pd(>20120630) pd(20120701-20120831)	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) yr(>2011) yr(2011-2012)	Single year or a range of years may be searched. 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. 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[1]	SUBT	subt("neural networks")	SUBT searches terms from the *Subject* display field only.
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