

# ECE Undergraduate Search Hints

Searching the [Library GIL Catalog](#)

Using [Inspec](#) record information

- **ECE Search Examples and Library Guide**

<http://www.prism.gatech.edu/~bw21/eceunder.htm>

- Additional examples are under “Examples of searches” at <http://www.prism.gatech.edu/~bw21/eceguides.htm>

- **For assistance**

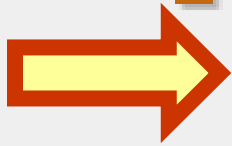
- contact Bette Finn, ECE Subject Librarian, at Email: [bette.finn@library.gatech.edu](mailto:bette.finn@library.gatech.edu)

# Help Choosing a Topic

- **Handbooks and Encyclopedias**  
<http://www.prism.gatech.edu/~bw21/eceref.htm>
  - **Encyclopedia for ECE**, 24 volumes, TK9 .E53 2nd Floor East (Southeast corner). Last volume has **table of contents** and **index**.
  - Other ECE [handbooks](#) in TK's on [2nd floor east SE corner](#)
  - Electronic reference resources
    - **Handbooks:** [Knovel](#), [ENGnetBASE](#), [Referex Engineering](#)
    - [Encyclopedias](#)
- **GIL Library Catalog** <http://gil.gatech.edu/>
- **IEEE Spectrum**. Table of contents
- [Inspec](#). Restrict to title and general review/new developments

- Find paper mentioned in **index database**, such as [Inspec](#)
- Go to **GIL Library Catalog** <http://gil.gatech.edu/>
- In GIL Library Catalog record, find location of journal or conference in the Library (electronic or print/hard copy)

## SEARCH & FIND



[Articles \(Databases\)](#)

[Journals](#)

[Books \(Catalog\)](#)

[Research Guides](#)

[more...](#)

## ABOUT THE LIBRARY

[Hours](#) | [Directions](#)

[Staff](#)

[Visitors](#)

[Jobs](#)

[more...](#)

<http://www.library.gatech.edu>

- **Search & Find**
  - **Articles (Databases)**  
(such as [Inspec](#))
  - Search the [Catalog \(GIL\)](#)
- Must use GT [Account](#) number and password (Spectrum, etc.)

[Library Blog](#)

[Library Calendar](#)

[Reserve Event Space](#)

# INSPEC 1896+ and Compendex 1884+

- **Combined** INSPEC 1896+ and Compendex 1884+
- **Choose Format**. **Default** is "Citation" (only title). Use "**Detailed** record" or "**Abstract**" Format (for email, print, download – after "Select range")
- **Truncation** is **asterisk** (\*)
- **Exact phrase** within **quotes** (" "). No truncation in " "
- **Proximity**. **No truncation** within NEAR/# or ONEAR/# or within quotes (exact phrases).
  - 0-x terms, **any order**: laser **NEAR/4** diode.
  - 0-x terms, **order entered**: laser **ONEAR/5** diode
- **Remove Duplicates**. Fewer errors in Inspec records.
- **Choose** "Database **Preferences: Inspec**" Duplicate records will be removed from the first 1000 records.
- Library Search Hints and Guides  
<http://www.prism.gatech.edu/~bw21/eceguides.htm>

# INSPEC 1896+ and Compendex 1884+

- **LIMIT BY**
  - Language = **English**
  - **Date**. Example: 1995 to 2006
  - **Treatment Types**
    - **General Review**
    - Applications
    - New Development
    - Practical
    - Product Review
  - Document Type, such as Journal Article
  - Can turn “Autostemming Off” if searching acronyms

Easy Search

Quick Search

Expert Search

## SELECT DATABASE

All  Compendex  Inspec

## SEARCH FOR

model\* or simulat\* or algorithm\*

OR model\* or simulat\* o

AND

## SEARCH IN

Title

Controlled term

All fields

## LIMIT BY

Journal article

General review

Discipline type not available

English

1995 TO 2006

1 Updates

## SORT BY

Relevance  Publication year

Autostemming off

Search

Reset

## SEARCH IN

All fields

All fields

Subject/Title/Abstract

Abstract

Author

Author affiliation

Title

CODEN

Conference information

ISSN

Publisher

Serial title

Controlled term

## SEARCH IN Fields

- **Title**
- Author
- **Controlled Term**  
(thesaurus term)
- **Subject/Title/**  
**Abstract** keywords

ORT



# Sample keywords

**future** or **overview\*** or **trend\*** or "State of the art" or "cutting edge" or advance\* or **advantage\*** or **disadvantage\*** or useful\* or benefit\* or **pros or cons** or **compare\*** or **comparison\*** or versus or "trade off" or "trade offs" or tradeoff\* or "better performance" or improv\* or **survey\*** or **review\*** or innovati\* or **new** or novel or "current technology" or fundamental\* or introduct\* or drawback\* or "draw backs" or "draw backs"

# INSPEC 1896+ and Compendex 1884+

- **Search History.** Combine previous searches in **same database.**
  - Manipulate **previous search statement numbers** with **Boolean Operators** and **keywords**
  - Can add keywords. Example: #1 and #2 and laser\*
  - Open a **Word document** and **keep track** of search statement **line numbers**
- Search by **Fields**
  - Author
  - **Title**
  - **Controlled terms** (**thesaurus** terms) and
  - Controlled terms can be **different** for each database and can have restricted **date** coverage
  - Uncontrolled terms (identifiers; subject headings that are not thesaurus terms)

Search History ?

No.	Type	Search	Autostem	Sort Results	Year(s)	Database
1.	Expert	<a href="#">((simulat* or model* or algorithm*) wn TI) or ((simulat* or model* or algorithm*) wn CV)</a>	Off	▼ Date	2639115 1884-2006	Compendex & Inspec
2.	Expert	<a href="#">(("biomedical engineering" or (biomedical NEAR/2 engineers) or (biomedical NEAR/2 engineer) or biotechnolog* or ((medicine or medical or biolog*) and engineer*) or bioengineer*) wn KY)</a>	Off	▼ Date	116768 1884-2006	Compendex & Inspec
3.	Expert	<a href="#">((mems or (micro NEAR/2 electromechanical) or ("micro electro mechanical" or microelectromechanical*) wn KY)</a>	Off	▼ Date	31198 1884-2006	Compendex & Inspec

Clear Search History

Can also include keywords. Example: #1 and #2 and #3 and ((Ehrfeld or Borenstein) wn au)

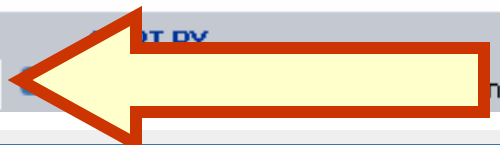
Combine Previous Searches

ENTER SEARCHES TO COMBINE

#1 and #2 and #3

Search

Reset



Combined Search

Combine searches listed in the Search History as follows:

- (#1 AND #2)
- (#1 AND #2) OR (#3 AND #4)
- (#1 OR #3) NOT #2



Combine searches executed in the same database only.

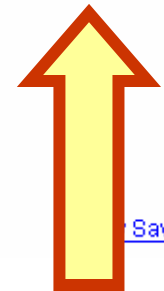
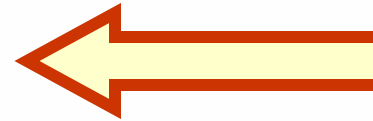
New Search

Search History ?

No.	Type	Search	Autostem	Sort Results	Year(s)	Database	E-mail Alert	Save Search
1.	Expert	<a href="#">((simulat* or model* or algorithm*) wn TI) or ((simulat* or model* or algorithm*) wn CV)</a>	Off	▼ Date	2639115 1884-2006	Compendex & Inspec	<input type="checkbox"/>	<a href="#">Save</a>
2.	Expert	<a href="#">(("biomedical engineering" or (biomedical NEAR/2 engineers) or (biomedical NEAR/2 engineer) or biotechnolog* or ((medicine or medical or biolog*) and engineer*) or bioengineer*) wn KY)</a>	Off	▼ Date	116768 1884-2006	Compendex & Inspec	<input type="checkbox"/>	<a href="#">Save</a>
3.	Expert	<a href="#">((mems or (micro NEAR/2 electromechanical) or ("micro electro mechanical" or microelectromechanical*) wn KY)</a>	Off	▼ Date	31198 1884-2006	Compendex & Inspec	<input type="checkbox"/>	<a href="#">Save</a>
4.	Combined	<a href="#">((((simulat* OR model* OR algorithm*) WN TI) OR ((simulat* OR model* OR algorithm*) WN CV)) AND (1884-2006 WN YR)) and ( (((biomedical engineering) OR (biomedical NEAR/2 engineers) OR (biomedical NEAR/2 engineer) OR biotechnolog* OR ((medicine OR medical OR biolog*) AND engineer*) OR bioengineer*) WN KY)) AND (1884-2006 WN YR)) and ( (((mems OR (micro NEAR/2 electromechanical) OR ((micro electro mechanical)) OR microelectromechanical*) WN KY)) AND (1884-2006 WN YR))</a>		▼ Date	81	Compendex & Inspec	<input type="checkbox"/>	<a href="#">Save</a>

Clear Search History

Saved Search

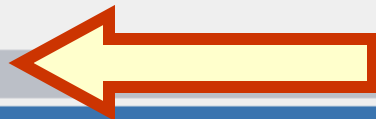


- **“Combined”** does **not** indicate #1 and #2 and #3. Only gives keywords.
- **Email Alert & Save Search** both save only **one line**.

Refine Search New Search

Next Page

1-25



Results management

Select all on page - Select range:  to   - [Clear all on page](#) - [Clear all selections](#)

**Choose format:**  Citation  Abstract  Detailed record  Clear selected records on new search

[View Selections](#) [E-Mail](#) [Print](#) [Download](#) [Save to Folder](#)

### Refine Results

[Include](#)

#### Database

- Compendex (65)
- Inspec (16)

#### Author

- Ehrfeld, Wolfgang (6)
- Ehrfeld, Ursula (5)
- Borenstein, J. T. (4)
- Kaazempur, Mofrad M. R. (4)
- Vacanti, J. P. (4)
- Kelly, G. (3)
- Pahi, A. (3)
- Rencz, M. (3)
- Alderman, J. (3)

#### Controlled Vocabulary

- Microelectromechanical Devices (53)
- Computer Simulation (38)
- Biomedical Engineering (26)
- Mathematical Models (23)
- Biotechnology (16)
- Nanotechnology (9)
- Microelectronics (8)
- Finite Element Method (8)
- Sensors (7)
- Biosensors (7)
- Micromachining (7)
- Micromechanical Devices (7)
- Algorithms (7)

### Search Results

81 records in Compendex & Inspec for [Remove Duplicates](#) - [Save Search](#) - [Create Alert](#) - [RSS](#) ?

+ (((simulat\* OR model\* OR algorithm\*) WN TI) OR (((simulat\* OR model\* OR algorithm\*) WN CV) AND (1884-2006 WN YR)) and (((biomedical engineering) OR (biomedical NEAR/2 engineers) OR (biomedical NEAR/2 engineer) OR biotechnolog\* OR ((medicine OR medical OR biolog\*) AND engineer\*) OR bioengineer\*) WN KY) AND (1884-2006 WN YR) and (((mems OR (micro NEAR/2 electromechanical) OR (micro electro mechanical}) OR microelectromechanical\*) WN KY) AND (1884-2006 WN YR))

Sort by: Relevance  Date Author Source Publisher

1. **Evolutionary computation technologies for the automated design of space systems**


[Terrile, R.J.](#) (Jet Propulsion Lab., California Inst. of Technol., Pasadena, CA, USA); [Aghazarian, H.](#); [Ferguson, M.J.](#); [Fink, W.](#); [Huntsberger, T.L.](#); [Keymeulen, D.](#); [Klimeck, G.](#); [Kordon, M.A.](#); [Seungwon Lee](#); [von Allmen, P.](#) **Source:** *Proceedings. 2005 NASA/DoD Conference on Evolvable Hardware (EH 2005)*, 2005, p 131-8


**Database:** Inspec

[Abstract](#) - [Detailed](#) - [Find It](#)

- **Refine Search** button keeps settings.
- **New Search** reverts to defaults

## Results Manager

Select all on page - Select range:  to   - [Clear all on page](#) - [Clear all selections](#)

 **Choose format:**  Citation  Abstract  Detailed record  Clear selected records on new search

[View Selections](#)

[E-Mail](#)

[Print](#)

[Download](#)

[Save to Folder](#)

## Search Results

81 records in Compendex & Inspec [or](#) [Remove Duplicates](#) - [Save Search](#) - [Create Alert](#) - [RSS](#) 

[+\(\(\(simulat\\* OR model\\* OR algorithm\\*\) WN TI\) OR \(\(simulat\\* OR model\\* OR algorithm\\*\) WN CV\)\) AND \(1884-2006 WN YR\)\) and \( \(\(\(biomedical engineering} OR \(biomedical NEAR/2 engineers\) OR \(biomedical NEAR/2 engineer\) OR biotechnolog\\* OR \(\(medicine OR medical OR biolog\\*\) AND engineer\\*\) OR bioengineer\\*\) WN KY\)\) AND \(1884-2006 WN YR\)\) and \( \(\(\(mems OR \(micro NEAR/2 electromechanical\) OR \({micro electro mechanical}\) OR microelectromechanical\\*\) WN KY\)\) AND \(1884-2006 WN YR\)\)](#)

**Sort by:** [Relevance](#) ▼ [Date](#) [Author](#) [Source](#) [Publisher](#)

Sort By: Date/Year, Relevance, Author, Source

## Remove Duplicates

Duplicate records will be removed from the first 1000 records in the result set, database that you prefer to see results from.

### Field Preferences:

- No field preference
- Has Full Text
- Has Abstract
- Has Index Terms

### Database Preferences

Inspec ▼

[Continue](#)

- "Remove Duplicates"
- **Choose Inspec** (fewer errors in Inspec records)

### Results Manager

Select all on page - Select range: 1 to 77 [Select all on page](#) - [Clear all selections](#)

Choose format:  Citation  Abstract  Detailed record  Clear selected records on new search

[View Selections](#) [E-Mail](#) [Print](#) [Download](#) [Save to Folder](#)

### Deduplication Summary (First 1000 search results)

**Deduplication criteria** No Field Preferred; Inspec Preferred

**Original search** 81 Total records for ( ((simulat\* OR model\* OR (1884-2006 WN YR)) and ( {{{biomedical engi OR biotechnolog\* OR ((medicine OR medical ( YR)) and ( {{{(mems OR (micro NEAR/2 electrol KY)) AND (1884-2006 WN YR))

**Duplicates removed** 4 Total (4 Compendex)

**Deduplicated set** 77 Total (61 Compendex, 16 Inspec)

1. **Evolutionary computation technologies for the**  
[Terrile, R.J.](#) (Jet Propulsion Lab., California Inst. of Techno  
[T.L.](#); [Keymeulen, D.](#); [Klimeck, G.](#); [Kordon, M.A.](#); [Seungwo](#)  
*Evolvable Hardware (EH 2005)*, 2005, p 131-8  
**Database:** Inspec

- Session will **expire** after 20 minutes of inactivity
- **“Select Range”** or check boxes
- **“Choose Format:”**
  - Abstract or Detailed (not Citation)
- E-mail or Print or Download records to avoid being timed out

# Journal Articles

- **ISSN.** Copy and paste journal the ISSN number to [GIL Catalog](#) “Exact Search” screen
- **Journal Name.** Copy and paste exact journal name to [GIL Catalog](#) “Exact Search” screen
- “**Find It GT**” will usually, but not always, work for journal articles
- Note print and electronic **publication date (year)** coverage and **title changes**
- Watch for **aggregator e-journal** restricted **embargo dates** and **selective coverage** (ProQuest, EBSCOhost, Factiva, GaleGroup, Lexis Nexis, etc.).

**Title:** Modern spectral analysis techniques for blood flow velocity and spectral measurement using pulsed Doppler ultrasound

**Authors:** [David, J.-Y.](#); [Jones, S.A.](#); [Giddens, D.P.](#)

Authors (Initials)  
First Author Affiliation

**First author affiliation:** Georgia Inst. of Technol., Atlanta, GA, USA

**Serial title:** IEEE Transactions on Biomedical Engineering

Journal Title

**Abbreviated serial title:** IEEE Trans. Biomed. Eng. (USA)

**Volume:** 38

**Issue:** 6

Inspec 1896+

**Publication date:** June 1991

**Pages:** 589-96

**Language:** English

**ISSN:** [0018-9294](#)

ISSN #  
Journal Article

**CODEN:** [IEBEAX](#)

**Document type:** Journal article (JA)

**Country of publication:** USA

**Abstract:** Four spectral analysis techniques were applied to pulsed Doppler ultrasonic quadrature phase shift keying (QPSK) signals to compare the relative merits of each technique for estimation of flow velocity and Doppler shift. The four techniques were (1) the fast Fourier transform method, (2) the maximum likelihood method, (3) the Burg autoregressive algorithm, and (4) the modified covariance approach to autoregressive modeling. Both simulated signals and signals obtained from an in vitro flow system were used. Optimal parameter values (e.g. model orders) were determined for each method, and the effect of signal-to-noise ratio and signal bandwidth were investigated. The modern spectral analysis techniques were shown to be superior to Fourier techniques in most circumstances, providing

**Inspec**  
1896+

four techniques were (1) the fast Fourier transform method, (2) the maximum likelihood method, (3) the Burg autoregressive algorithm, and (4) the modified covariance approach to autoregressive modeling. Both simulated signals and signals obtained from an in vitro flow system were studied. Optimal parameter values (e.g. model orders) were determined for each method, and the effects of signal-to-noise ratio and signal bandwidth were investigated. The modern spectral analysis techniques were shown to be superior to Fourier techniques in most circumstances, provided the model order was chosen appropriately. Robustness considerations tended to recommend the maximum likelihood method for both velocity and spectral estimation. Despite the restrictions of steady laminar flow, the results provide important basic information concerning the applicability of modern spectral analysis techniques to Doppler ultrasonic evaluation of arterial disease

**Number of references:** 19

**INSPEC controlled terms:** [biomedical ultrasonics](#) | [Doppler effect](#) | [haemodynamics](#) | [spectral analysis](#)

**Uncontrolled terms:** [optimal parameter values](#) | [spectral analysis techniques](#) | [blood flow velocity](#) | [spectral measurements](#) | [pulsed Doppler ultrasound](#) | [quadrature signals](#) | [maximum likelihood method](#) | [Burg autoregressive algorithm](#) | [simulated signals](#) | [in vitro flow system](#) | [model orders](#) | [signal-to-noise ratio](#) | [signal bandwidth](#) | [Fourier techniques](#) | [steady laminar flow](#) | [arterial disease](#)

**INSPEC classification codes:** [A8760B](#) Sonic and ultrasonic radiation (medical uses) | [A8770E](#) Patient diagnostic methods and instrumentation | [A8745H](#) Haemodynamics, pneumodynamics

**Treatment:** Theoretical (THR); Experimental (EXP)

**Discipline:** Physics (A)

**Database:** INSPEC

Copyright 2003, IEE

**Controlled** terms CV  
**Uncontrolled** terms FL

**Full-text and Local Holdings Links**

Find It  GT

# Problem with “Find It GT”

- The “Find It GT” online full text and GIL Catalog “GO” link does **not always work** properly
- The Library owns many publications not found by “Find It GT”
- Always check the [GIL Catalog](#) (manual search)
- Ask us for [help](#), especially for conference proceedings and technical reports!

# Conference/Proceedings Papers

- Ask us for [help](#) with Conference Proceedings Papers!
- They can be **difficult** for us to locate.
- Look for keywords: Conference, symposia, symposium, proceedings, meeting, workshop
- [Conference proceedings research guide](#)

# Conference Papers

- **Fields** – **Conference Name/Monographic Title and Source/Serial/Journal Title** fields
- Conferences are cataloged as either a **book** or as a **serial** (similar to journal)
- “Find It GT will usually **not** work for conferences & reports. Conduct a manual GIL Catalog search and ask us for [help](#)!
- Library owns many publications even though “**Find It GT**” says “Paper version via: Not Available”
- “If “**IEEE**” or “**IEE**” or “**IET**” is in the record, try [IEEE Xplore](#) 1988+ (selected journal/conference papers before 1988) and the [GIL Catalog](#). Some conferences are not in [IEEE Xplore](#).

Check record to add to Selected Records

8.

**Accession number:** 99014521998

**Compendex 1884+**

**Title:** Numerical study of an asymmetrical stenosis

**Authors:** [Jin, Suo](#); [Giddens, Don P.](#)

**Author name as in paper**

**First author affiliation:** Georgia Inst of Technology and Emory Univ Sch of Medicine, Atlanta, GA, USA

**Serial title:** American Society of Mechanical Engineers, Bioengineering Division (Publication) BED

**Abbreviated serial title:** ASME Bioeng Div Publ BED

**Volume:** v 39

**Monograph title:** Advances in Bioengineering

**Publication year:** 1998

**Pages:** p 63-64

**Language:** English

**CODEN:** [ASMBEP](#)

**Document type:** Conference article (CA)

**Conference name:** Proceedings of the 1998 ASME International Mechanical Engineering Congress and Exp

**Conference date:** Nov 15-20 1998

**Conference location:** Anaheim, CA, USA

**Conference code:** [49454](#)

**Sponsor:** ASME

**Publisher:** ASME, Fairfield, NJ, USA

**Conference article**

Use **fields**

- **Serial/Source title:**
- **Conference name:**
- **Monograph title:**
- **Conference date:**
- **Conference location:**

**Abstract:** Wall shear stress (WSS) and the flow dynamics in an asymmetrical aortic stenosis model were investigated using computational fluid dynamics. The study aims to determine whether the local flow environment of a raised eccentric plaque contains characteristics that have been associated with biological activity relevant to plaque rupture.

**Number of references:** 5

**Ei main heading:** [Hemodynamics](#)

**Compendex 1884+**

**Ei controlled terms:** [Cells](#) | [Wall flow](#) | [Shear stress](#) | [Physiological models](#) | [Computational fluid dynamics equations](#) | [Mathematical models](#)

**Uncontrolled terms:** [Asymmetrical stenosis](#) | [Wall shear stress \(WSS\)](#) | [Endothelial cells](#)

**Ei classification codes:** [461.1 Biomedical Engineering](#) | [631.1 Fluid Flow, General](#) | [461.2 Biological Materials](#) | [723.5 Computer Applications](#) | [931.1 Mechanics](#) | [921.2 Calculus](#)

**Treatment:** Theoretical (THR)

**Database:** Compendex

Compilation and indexing terms, © 2003 Elsevier En

- Ei **main heading**
- Ei **Controlled** terms
- **Uncontrolled** terms

Full-text and Local Holdings Links

Find It  GT

- “**Find It GT**” usually (but not always) **works** properly for **journals**, but “**Find It GT**” **seldom** works for **conferences** or technical **reports**

**Title:** 1998 advances in bioengineering : presented at the 1998 ASME Congress and Exposition : November 15-20, 1998, Anaheim, Bioengineering Division, ASME ; edited by Ajit P. Yoganathan

**Publisher:** New York, N.Y. : American Society of Mechanical Engineers,

**Description:** xx, 421 p. : ill. ; 28 cm.

**Series:** [BED ; vol. 39](#)

**Notes:** Includes bibliographical references and index.

**Subject(s):** [Bioengineering Congresses.](#)  
[Biomedical engineering Congresses.](#)  
[Biomechanics Congresses.](#)  
[Human mechanics Congresses.](#)  
[Prosthesis Congresses.](#)  
[Implants, Artificial Congresses.](#)

[GIL Catalog](#)

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**Location:** General Collection

**Call Number:** [R856 .A2 A44 1998](#)  
Copy 1

**Number of Items:** 1

**Status:** Available

**Keyword Search**

# IEEE & IEE & IET -- IEEE Xplore or GIL Catalog

- If the **Inspec** or the Compendex record has either of the keywords **IEEE or IEE or IET** in the “**source/journal**” or “**conference name**” field, search **IEEE Xplore**.
- **IEEE Xplore** includes full text IEEE & IEE/IET **journals and conferences 1988 to present** and selected journals and conference *before* 1988.
- Use “**Search**” “**Advanced**” in IEEE Xplore. Type in last name of one of the authors (“Author” field) and one “Title Document” keyword in each box (or exact phrases).
- The Library owns some IEEE and IEE/IET papers which are not in IEEE Xplore. Check the **GIL Catalog** -- ask us for help.

# Author Names

- Author formats differ in each database
- **INSPEC** - - Only author **initials**
- **Compendex** - - Author names are as written in paper (initials or first names)
- Use "**Browse Indexes**" "**Author**" with "**Expert Search**"
- Note **both spaces** and **commas** after surnames
- Ask us for help!

# GIL Catalog <http://gil.gatech.edu/>

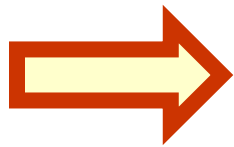
- **GIL Quick Search and Quick Catalog Search:**
  - Searches "or" "and" "not" as keywords
  - Can not use truncation
  - Leave off extra spaces
- **Exact Search:** Exact, word for word phrases, left anchored. Use ISSN # or exact journal name
- **Keyword Search:** Omit "AND" "OR" "NOT"  
Can restrict to Journals with "Narrow My Search"
- **Check My Requests:** Books you have checked out.

Library Search Hints and Guides

<http://www.prism.gatech.edu/~bw21/eceguides.htm>

## Quick Catalog Search or Quick Search

- Searches "or" "and" "not" as keywords
- Does not allow truncation
- Leave off extra spaces



Keyword Search      Exact Search

GIL Quick Search

find all words

# GALILEO

## Interconnected Libraries

# Georgia Institute of Technology

Library and Information Center

GIL - Georgia Interconnected Libraries for the University System of Georgia, funded by the Governor and the General Assembly for the Citizens of Georgia.

**Keyword Search**

**Exact Search**

[Keyword Search](#)

[Exact Search](#)

### GIL Quick Search

find all words

GO

### [GIL - search the library catalog](#)

[find books, journals, videos, and more...]

### [Search course reserves](#)

[find reserves by instructor or course number...]

### Access my GIL account to:

- [Get GALILEO password](#)
- [Renew books online](#)
- [Check my requests](#)

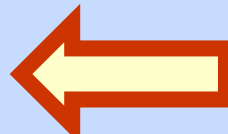
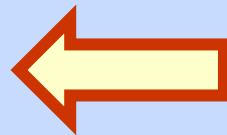
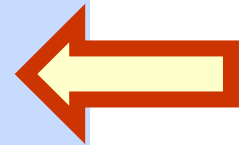
**Check My Requests**

Search for:

**Exact Search**

Search in:

- Title \* (e.g., Grapes of Wrath)
- Journal Title \* (e.g., Georgia Review)
- Author (e.g., Walker, Alice)
- Subject Heading
- Call Number
- ISBN (no spaces or punctuation)
- ISSN (XXXX-XXXX)
- Command ([Click here for help](#))
- Series



# Exact Search

- Use word for word, **exact phrases**, **left anchored**
- **No initial articles** (the, an, a ...)
- **Journal Title** (exact phrase, left anchored)
- Copy from INSPEC & Compendex **journal** records:  
    **ISSN Number (xxxx-xxxx)**
- Call Number Browse
- Command uses boolean operators

**GIL Catalog** <http://gil.gatech.edu/>

<input type="checkbox"/>	<a href="#">1</a>	<a href="#">Scientific American</a>
		<i>Location: Storage, ask at Circu East</i>
		<a href="#">Scientific American.</a>

**"Search Tips"**  
are above the  
search boxes

[New Search](#)    [Heading Results](#)    [Title Results](#)    [R](#)    [Exit](#)

Institution Name: Georgia Institute of Technology

[Search Tips](#)

[Keyword Search](#)    [Exact Search](#)

Search for:     all of these    Search in: Keyword Anywhere

AND     OR     NOT

Search for:     all of these    Search in: Keyword Anywhere

[New Search](#)    [Heading Results](#)    [Title Results](#)    [R](#)    [Exit](#)

Institution Name: Georgia Institute of Technology

[Search Tips](#)

[Keyword Search](#)    [Exact Search](#)

Search for:    

Search in:

- Title \* (e.g., Grapes of Wrath)
- Journal Title \* (e.g., Georgia Review)
- Author (e.g. Walker, Alice)
- Subject Heading
- Call Number
- ISBN (no spaces or punctuation)
- ISSN (XXXX-XXXX)

# Keyword Search

- Boolean operators are not allowed within a single input box
- Leave out "and" "or" "not"
- Leave out quotes
- **Truncation** symbol is (?). Example: http? (truncation overflow is possible, without warning)

# Keyword Search



Search for: intelligent robot? computer vision    all of these    Search in: Keyword Anywhere  
 AND    OR    NOT

Search for: international    as a phrase    Search in: Keyword Anywhere  
 AND    OR    NOT

Search for:    all of these    Search in: Keyword Anywhere

any of these
<b>all of these</b>
as a phrase

<b>Keyword Anywhere</b>
Title
Author

**Any** of these:  
"OR"

**All** of these:  
"AND"

**As a phrase**

**GIL Catalog**

<http://gil.gatech.edu/>

Narrow My Search

**"Narrow My Search"**

Lower right corner  
of screen

**Search Limits are in effect!**

**GIL Catalog**  
Keyword Search

- Select methods for narrowing your searches below.
- Search limits will remain in effect until you specifically clear them or until you close your browser.

Narrow My Search

Language:

English  
English, Middle  
English, Old

Location:

Architecture  
Archives  
Reference Ready Reference

Date:

=  >  <  Range

Format:

Serial (magazines, journals)  
Book  
Archive/Manuscript

**Narrow to  
Magazines/Journals  
with  
Format:  
"Serials"**



# Journals

- **Title changes** have separate Catalog records
  - “**Continues**” (title change)
  - “**Continued By**” (title change)
  - “**Split into**” (title change)
- “**Library Has**” fields (**print**/hard copy bound volumes and recent issues)
- **Bindery** information (Status field)
- **Storage** (journals through 1979)
- **Brackets** (missing journal issues)

# Electronic Journals

The E-Journal list and the GIL Catalog

“Electronic Version: Get fulltext copy ... **Find It GT**” electronic journal records contain **aggregator** journals (EBSCOhost, ProQuest, Factiva, GaleGroup, Lexis Nexis, etc.) with **selected coverage** and **embargo date** restrictions.

# Electronic & Print Journals

Holdings. **Publication years** covered by the journal:

- **Print.** Dates of the Library's print subscription (years/volumes) are in the [GIL Catalog](#) "**Library has:**" fields -- General Collection, Storage, Recent Issues.
- **Electronic.** Date coverage of electronic journals (Library subscription, aggregator, open access) are indicated in the [E-Journals](#) list and in the [GIL Catalog](#) "**Electronic Version full text ... Find It GT**" field, after "**Available from.**"

Title: *IEE proceedings. D, Control theory and applications.*

Electronic Version: [Get fulltext copy](#) [Find It](#)  GT

Continues: [Proceedings of the Institution of Electrical Engineers](#)

Continued by: [IEE proceedings. Control theory and applications](#)

Publisher: Stevenage, Herts. : Institution of Electrical Engineers, 1980-1993.

Description: 14 v. : ill. ; 30 cm.

Publication History: Vol. 127, no. 1 (Jan. 1980)-v. 140, no. 6 (1993).

Six no. a year

Notes: Access restricted to authorized Georgia Tech users only.

Continues in part: *Proceedings* of the Institution of Electrical Engineers, and other publication

Holdings/Notes: \*Library has: v.127--v.139, 1980--1992.

Subject(s): [Control theory Periodicals.](#)

[Automatic](#)

[Location:](#) - Georgia

Electronic Version: [Available](#)

Call Number: [TK1 .I411](#)

Number of Items: 1

Status: Available

[Location:](#) General C

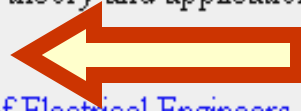
Call Number: [TK1 .I41125](#)

- **Separate** records for **title changes**.
- **Continues:**
- **Continued by:**
- **Split into:**
- **Library has:** fields. Print bound volumes (publication years)

The "Electronic Version fulltext "Find It GT" field does not indicate publication dates. Check years!

Title: *IEE proceedings. D, Control theory and applications.*

Electronic Version: [Get fulltext copy](#) [Find It GT](#)



Continues: [Proceedings of the Institution of Electrical Engineers](#)

Continued by: [IEE proceedings. Control theory and applications](#)

- **“Electronic Version: Get fulltext copy Find It GT”** field for electronic journals
- **Call Number:** for print volumes in **“Library has:”** field
- **Bindery** information in the **Status:** field

Holdings/Notes:: \*Library has: v.127--v.139, 1980--1992.

Subject(s): [Control theory Periodicals](#)

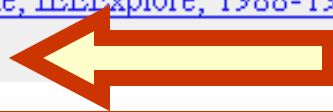
[At](#)

- Separate records for title changes. Note years.
- Separate print and electronic records may exist. Holdings.

Location: - C

Electronic Version: [Available online, IEEExplore, 1988-1993:](#)

Call Number: [TK1 .I41125](#)



**Status:** v. 60 no. 1-13 Jan.-Mar. 2002 At Bindery - 07-03-02  
v. 59 no. 41-49 Oct./Dec. 2001 At Bindery - 07-10-02

\*\*Periodicals published through 1979 are **in storage** For retrieval, ask at Circulation Desk, 1st Floor East.

\*Library has: v.107--v.112, pt.1; July 1965--Mar. 1968@v.[112, pt.2]; Apr.-June 1968@v.113--v.114, pt.1; July 1968--Mar. 1969@v.[114, pt.2]; Apr.-June 1969@v.115--v.116, pt.1; July 1969--Mar. 1970@v.[116, pt.2]; Apr.-June 1970@v.117, July-Dec. 1970@v.[118, pt.1];

**Call number** TJ210.3 .I57 1999

**Title:** *Intelligent robots and computer vision* XVIII : algorithms, techniques, and active *vision* : 20-21 September, 1999, Boston, Massachusetts / David P. Casasent, chair/editor ; sponsored and published by SPIE--the *International* Society for Optical Engineering.

**Publisher:** Bellingham, Wash. : SPIE, c1999.

**Description:** viii, 438 p. : ill. ; 28 cm.

**Series:** [Proceedings / SPIE--the International Society for Optical Engineering ; v. 3837](#)

**Notes:** Includes bibliography

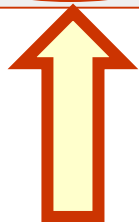
**Subject(s):** [Robotics Congresses](#)  
[Artificial intelligence](#)  
[Computer vision \(Optics\)](#)  
[Image processing \(Optics\)](#)

**Location:** General Collection

**Call Number:** [TJ210.3 .I57 1999](#)

**Number of Items:** 1

**Status:** Available



- **“Library has:”** print fields -- Storage, General Collection, Recent issues
- **Storage journals before 1980**
- **Missing journal issues [brackets]**
- **Status** field. Can place **“Recalls”** on **Checked out books** at Circulation Desk
- Library of Congress Subject Headings

**Title:** IEEE spectrum.

**Electronic Version:** [Get fulltext copy](#) 

**Variant Title:** Spectrum

**Continues:** [Electrical engineering.](#)

**Publisher:** [New York] : Institute of Electrical and Elect

**Description:** v. : ill. ; 28 cm.

**Publication History:** Vol. 1, no. 1 (Jan. 1964)-  
Monthly

**Subject(s):** [Electric engineering Periodicals.](#)  
[Electronics Periodicals.](#)

**Notes:** Title from cover.  
Also available online.

**Holdings/Notes:** \*\*Periodicals published through 1979 are in

**Access Restrictions:** Access restricted to authorized Georgia Tech users only.

**Other Contributors:** [Institute of Electrical and Electronics Engineers.](#)

**Location:** - Georgia Tech electronic resource

**Electronic Version:** [Available online, IEEEExplore, 1988-](#)

**Call Number:** [TK1 .I15](#)

- “Electronic Version: Get fulltext copy **Find It GT**” -- Find date coverage of electronic journal (subscription, aggregator or open access), after “Available from”
- “**Library has:**” fields indicates **print/paper** coverage – Storage, General Collection, Recent issues fields (**years/volumes**)
- Continues/Continued by/Split into indicates **title changes** (separate records)

**Library has:** v. 17 - v. 32 (1980 - 1995)  
 v. 33 (1996: Some issues missing)  
 v. 34 - v. 35 (1997 - 1998)  
 v. 36 (1999: Some issues missing)  
 v. 37 - v. 40 (2000 - 2003)

**Location:** Storage, ask at Circulation Desk, 1st Floor East

**Call Number:** [TK1 .I15](#) 1-3 “Library has:” fields  
Copy 1

**Library has:** v. 1-16 (1964 - 1979)

- **Check holdings** (publication **year** coverage). **Print and electronic**
- Separate [GIL Catalog](#) records for print/paper and electronic may exist.
- Electronic records are often listed before print/paper records
- Holdings (**dates** of coverage) indicated after "**Available from**"

Source: IEEE spectrum [0018-9235]

### OnLine

Article is available from **IEEE Xplore Journals**

Year:  Volume:  Issue:  Start Page:  **GO**

Available from 1988 volume: 25 issue:1

Article is available from **EBSCOhost Academic Search Complete** 

Year:  Volume:  Issue:  Start Page:  **GO**

Available from 1996

Search for article in **Factiva** **GO**

Available from 1997

### Print

Do we have a copy on the shelves? Check: **the GT Catalog (GIL)** **GO**

- Click on the **Library subscribed** database (here IEEE).
- **Avoid aggregator** databases (such as EBSCOhost, ProQuest, Factiva, GaleGroup, Lexis Nexis, etc.). They can have **selective coverage** and/or **embargo dates**.

**Paper** is at TK1 .I15, Library has: v.1 1964-v.40 2003

# Recalls

## ▶ Recalls:

All items are subject to recall. The borrower is guaranteed 21 total days with items. These 21 days are reflected in the "New Due Date" on the **Recall Notice**. If the item has been out less than 14 days, the item will be due on day 21. If the item has been out for more than 14 days, it should be returned to the library within 7 days from the date of recall. *Items which are needed for Reserves are due immediately*. Recalled items should be returned to the Circulation Desk on or before the "New Due Date".

- **Graduate & Undergraduate Borrowing Privileges**  
<http://www.library.gatech.edu/services/borrow/students.php>
- **Borrowing from the GT Library**  
[http://www.library.gatech.edu/services/borrow/from\\_gt.php](http://www.library.gatech.edu/services/borrow/from_gt.php)

# Click on **Full Format** in the GIL Catalog to Obtain:

- Translation information. Indication of the existence of an **English translation**.
- **Alternative title** information
- **Notes** or **Table of Contents** with detailed information about limitations (in confidence), thesis or dissertation information, advisor/researcher names, microform format, short stories, poems, essays, book chapters, collections, etc.

Keyword Search

Exact Search

Search for: electric? engineering

as a phrase ▼

Search in: Subject (Library of Congress) ▼

Subject(s): [Electric engineering Handbooks, manuals, etc.](#)

“**Electric** Engineering” is the  
Library of Congress  
Subject Heading  
for electrical engineering  
in the GIL Catalog.

Truncate - - electric?