A Listing of Japanese Periodical Publications in Computer Science

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ABSTRACT

Many Western researchers remain unaware of Japanese developments in computer science. Although there are many reasons for this, one fundamental problem is that much of the work gets reported in publications widely distributed only within Japan. Some of these publications are entirely in English, and even most Japanese-language journals contain information in English that can serve as useful research leads, such as titles, author names and addresses, and sometimes abstracts. This paper attempts to address part of the problem by listing computer science journals published by various Japanese professional organizations and corporations.

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1. Introduction

Although many of the technological achievements made by the Japanese over the past decade are well-known, there is surprisingly little awareness in the U.S. of Japanese developments in computer science. As is the case with other sciences, this is due to several factors, including ignorance, language barriers, and a lack of easily accessible information on research results. This is true despite evidence that computer science research in Japan is comparable in many ways to that being performed elsewhere.

One fundamental problem is that only a limited amount of Japanese work in the field is reported in journals commonly read by U.S. researchers. While these are undoubtedly important, it represents only a small percentage of papers actually written. Moreover, given the long publication delays common in computer science journals, this work is often close to being obsolete when published. The remaining work, and especially the most recent work, is reported in forums widely distributed only in Japan. These forums include English-language journals, as well as those written in Japanese. As one example, consider the *Journal of Information Processing*. This journal is an English-language technical journal published by the Information Processing Society of Japan (IPSJ), one of the leading computer science professional societies in Japan. However, only about 25 libraries in the U.S. subscribe to this journal, as compared to hundreds of libraries for a comparable international journal, the *IEEE Transactions on Software Engineering.*

The problem is even more severe for Japanese-language technical journals. For example, as far could be determined, the journal *Computer Software*, which is published by another professional society called the Japan Society for Software Science and Technology, is not received by even a single library in the U.S. Similarly, the *Transactions of the IEICE (D-1)* published by the Japanese Institute of Electronics, Information and Communication Engineers, is received by only one library in the U.S. This is despite the fact that even Japanese-language journals such as this one typically contain titles, authors, and sometimes abstracts in English that could be useful as research leads to computer scientists working in the U.S.

Given this lack of penetration by Japanese journals in the United States, it is not surprising that most U.S. researchers remain unaware of Japanese advances in the field. Here, we attempt to address one aspect of this problem by collecting together a list of Japanese computer science journals published by professional organizations and companies. The hope is that people interested in the topics covered by the journals will find enough information to either subscribe directly or to obtain copies through various interlibrary loan facilities.

The three sections that follow list the journals based on the sponsoring organization. Specifically, Section 2 lists publications by Japanese professional organizations, Section 3 by Japanese corporations, and Section 4 by Japanese government laboratories. For each organization, the following information is given: the organization name and address, a list of publications in English, and a list of publications primarily in Japanese. If we are not aware of any publications by that organization in a given language, ‘‘None’’ is specified. A journal entry typically appears as follows:

Name:	*journal name*
Scope:	*topical coverage*
Frequency:	*publication frequency*
ISSN:	*International Standard Serial Number*
Other:	*other information published*
Subscrip.:	*address for subscriptions, if different from organization address*
Notes:	*miscellaneous information*

The ISSN is an international ‘‘unique id’’ for the periodical that librarians or others can use to identify the journal. Given that many of the journal titles below have been translated from the Japanese, this number provides the best means to locate a particular journal in which you are interested.

One final note: although we have attempted to included the most important Japanese periodicals related to computer science, this should in no way be viewed as an exhaustive listing. This is especially true for company publications, which are often numerous.[1] We will attempt to expand on this information in future updates, so if you know of others that should be included, or have corrections or suggestions, please contact:

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We expect to issue periodic updates as warranted.

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2. Publications by Professional Organizations

2.1. Information Processing Society of Japan

Organization Name and Address:

Information Processing Society of Japan (IPSJ)
Hoshina Bldg., Azabudai 2-4-2
Minato-ku, Tokyo 106
Japan

[1]For example, Toshiba seems to publish approximately 25 magazines and journals of various forms.

Publications in English:

Name:	*Journal of Information Processing*
Scope:	all of computer and information science
Frequency:	quarterly
ISSN:	0387-6101
Other:	abstracts in English of papers published in *Transactions* and the *SIG Notes* series (see below)
Subscrip:	Japan Publications Trading Co. LtD, P.O. Box 5030, Tokyo International 100-31, Japan (or, 2-1, Sarugaku-cho, Chiyoda-ku, Tokyo, Japan)

Publications in Japanese:

Name:	*Transactions of the IPSJ*
Scope:	all of computer and information science
Frequency:	monthly
ISSN:	0387-5806
English:	titles; author names and affiliations

Name:	*Journal of the IPSJ*
Scope:	all of computer and information science; general magazine
Frequency:	monthly
ISSN:	0447-8053

Name:	*SIG Notes*
Scope:	unrefereed papers presented at the meetings of the various IPSJ SIGs (Special Interest Groups)
Frequency:	depends on meeting frequency, commonly 4 times per year per SIG
ISSN:	none
English:	titles; abstracts; author names, affiliations, and addresses; sometimes entire articles
SIGs:	Natural Language, Database System, Artificial Intelligence and Man Machine Interaction, Symbol Manipulation, Software Engineering, Microcomputer and Workstation, Computer Architecture, Operating Systems, Computer Vision, Design Automation, Distributed Processing System, Human Interface, Computer Graphics and Computer Aided Design, Numerical Analysis, Software Foundation, Information Systems, Programming Language, Fundamental Infology, Computer in Education, Algorithms, Computer and Humanities

2.2. Institute of Electronics, Information, and Communication Engineers

Organization Name and Address:

The Institute of Electronics, Information, and Communication Engineers (IEICE)
Kikai-Shinko-Kaikan Bldg, 3-5-8, Shibakoen,
Minato-ku, Tokyo 105, Japan

Publications in English:

Name:	*IEICE Transactions on Communications, Electronics, Information, and Systems*
Scope:	all of electronics, communications, computer science, information systems
Frequency:	monthly
ISSN:	0913-574X
Other:	abstracts in English of papers published in *Transaction* and *Technical Report* series (see below)
Subscrip:	Maruzen Co. Ltd., P.O. Box 5050, Tokyo International 100-31, Japan
Notes:	Each of these articles also appears in one of the *Trans. of the IEICE* (see below) depending on subject matter.

Publications in Japanese:

Name:	*Journal of the IEICE*
Scope:	all of electronics, communications, computer science, information systems; general magazine
Frequency:	monthly
ISSN:	0913-5693
English:	table of contents; titles; author names, affiliations and addresses
Other:	Information about activities and meetings in Japan.

Name:	*Transactions of the IEICE, A*
Scope:	fundamentals, algorithms, mathematics
Frequency:	monthly
ISSN:	0913-5707
English:	titles; author names, affiliations and addresses

Name:	*Transactions of the IEICE, B-I*
Scope:	communication, protocols, software, services, devices
Frequency:	monthly
ISSN:	0913-1877
English:	titles; author names, affiliations and addresses

Name:	*Transactions of the IEICE, B-II*
Scope:	communication, antennas, electronics, wave communication, broadcasting
Frequency:	monthly
ISSN:	0915 - 1885
English:	titles; author names, affiliations and addresses

Name:	*Transactions of the IEICE, C-I*
Scope:	electronics, micro-electronics, light electronics, VLSI
Frequency:	monthly
ISSN:	0915 - 1893
English:	titles; author names, affiliations and addresses

Name: *Transactions of the IEICE, C-II*
Scope: devices, beam technology, computer electronics, electronic instruments
Frequency: monthly
ISSN: 0915 - 1907
English: titles; author names, affiliations and addresses

Name: *Transactions of the IEICE, D-I*
Scope: information systems and computers, database technology, algorithms, natural language, software systems, networks, fault-tolerant systems, information security
Frequency: monthly
ISSN: 0915-1915
English: titles; author names, affiliations and addresses

Name: *Transactions of the IEICE, D-II*
Scope: information systems, pattern recognition, medical applications, information handling, voice recognition, cybernetics
Frequency: monthly
ISSN: 0915-1923
English: titles; author names, affiliations and addresses

Name: *IEICE Technical Reports*
Scope: unrefereed papers presented at the meetings of the various IEICE SIGs
Frequency: depends on meeting frequency, commonly 4 times per year per SIG
ISSN: none
English: titles; author names and affiliations; sometimes abstracts or entire articles
SIGs: Voice Recognition, Direction and Systems, Education Research, Information Research, Reliability, Echo sound Research, Sound Applications, Non-Linear Problems, Antenna and Broadcast, Space Electronics, Satellite Communication, Environment Research, System Exchange Research, Information Networks, Communication Laws, Electronical Communication Technology, Machine Parts, Electronic Displays, Electronic Devices, Electronic Instruments, Silicon and Devices, Opto-Electronics, Micro Electronics, ME and Bio-Cybernetics, Office Systems, Computer Graphics, Natural Languages and Communication, Computer systems, Computation, AI, Software Science, Data Engineering, Pattern Recognition, Fault Tolerant Systems, VLSI Technology, LSI, Organic Electronics, Information Security, Digital Signal Processing, Fiber Communication Systems, No-Cable Communication Systems, Neural Computing, Human Communication

2.3. IEEE, Tokyo Section

Organization Name and Address:

Tokyo Section, IEEE
Sumitomo Electric Inc., Ltd.
1 Taya-cho, Sakae-ku
Yokohama-shi, 244 Japan.

Publications in English:

Name:	*Denshi Tokyo*
Scope:	similar to IEEE *Transactions on Computers*
Frequency:	yearly
ISSN:	0285-1903

2.4. Japan Society for Software Science and Technolgy

Organization Name and Address:

Japan Society for Software Science and Technolgy (JSSST)
Room 104, World Trade Center
Hamamatsucho 2-4-1, Minato-ku
Tokyo 105, Japan

Publications in English:

Name:	*Advances in Software Science and Technology*
Scope:	software
Frequency:	yearly
ISSN:	0915 - 6240

2.5. Institute of Electrical Engineers of Japan

Organization Name and Address:

Institute of Electrical Engineers of Japan (IEEJ)
Shinyuraku-cho Bldg., Yurakocho 1-12-1
Chiyoda-ku, Tokyo 100
Japan

Publications in English:

None

Publications in Japanese:

Name: *Transactions of the IEEJ*
Scope: hardware, neural networks, distributed systems, technical reports, systems technology.
Frequency: monthly
ISSN: 0385-4221
English: titles; abstracts; author names, affiliations, and addresses

Name: *Journal of the IEEJ*
Scope: hardware; general magazine
Frequency: monthly
ISSN: 0020-2878
English: table of contents; author names

2.6. Japan Information Center of Science and Technolgy

Organization Name and Address:

Japan Information Center of Science and Technology (JICST)
Nagata-cho 2-5-2, Chiyoda-ku
Tokyo 100-91, Japan

Publications in English:

None

Publications in Japanese:

Name: *Journal of Information Processing and Managements*
Scope: databases, management, text processing, communication, on-line systems
Frequency: monthly
ISSN: 0021-7298
English: table of contents; titles; abstracts; author names, affiliations and addresses; keynotes; keywords
Other: new book information; meeting announcements

2.7. Institute of Systems, Control, and Information Engineers

Organization Name and Address:

The Institute of Systems, Control, and Information Engineers (ISICE)
Kawahara-cho 14, Yoshida
Sakyo-ku, Kyoto 606, Japan

Publications in English:

None

Publications in Japanese:

Name:	*Transactions of the ISICE*
Scope:	robotics, fuzzy logic, knowledge information, information processing
Frequency:	monthly
ISSN:	0916-1600
English:	table of contents; titles; abstracts; author names

2.8. Robotics Society of Japan

Organization Name and Address:

Robotics Society of Japan (RSJ)
Bunkyo Ogaku Bldg.
Hongo 1-15-4, Bunkyo-ku
Tokyo, Japan

Publications in English:

None

Publications in Japanese:

Name:	*Journal of the RSJ*
Scope:	robotics
Frequency:	bi-monthly
ISSN:	0289-1824
English:	table of contents; titles; abstracts; keywords; author names

2.9. Japanese Society for Artificial Intelligence

Organization Name and Address:

Japanese Society for Artificial Intelligence (JSAI)
Uehara 1-32-19-201, Shibuya-ku
Tokyo 151, Japan

Publications in English:

None

Publications in Japanese:

Name:	*Journal of the JSAI*
Scope:	AI
Frequency:	6 times a year
ISSN:	0912-8085
English:	table of contents; titles; abstracts; author names, affiliation, and addresses; sometimes entire articles

2.10. Institute for New Generation Computer Technology

Organization Name and Address:

Institute for New Generation Computer Technology
Mita Kokusai Bldg-21Fl., 1-4-28, Mita,
Minato-ku, Tokyo 108, Japan.

Publications in English:

Name:	*ICOT Journal*
Scope:	parallel-processing for non-numerical computation; logic programming
Frequency:	unknown
ISSN:	0910-707X
Notes:	This magazine is available in both English and Japanese.

Publications in Japanese:

See above

2.11. TRON Association

Organization Name and Address:

TRON Association
5th Floor, Tomoecho Annex-II, 3-8-27, Toranomon,
Minato-ku, Tokyo 105, Japan

Publications in English:

Name:	*TRON Project Bimonthly*
Scope:	TRON project on real-time operating systems
Frequency:	6 times a year
ISSN:	none
Notes:	all articles in both English and Japanese; available only to members of the TRON Association

Publications in Japanese:

None

3. Publications by Companies

3.1. Nippon Telegraph and Telephone Corporation

Organization Name and Address:

Nippon Telegraph and Telephone Corporation (NTT)
Shin-Yurakucho Bldg., Yurakucho 1-12-1
Chiyoda-ku, Tokyo 100
Japan

Publications in English:

Name: *NTT Review*
Scope: telephone and network technology, communication, CASE
Frequency: bi-monthly
ISSN: 0915-2334

Publications in Japanese:

Name: *NTT R & D*
Scope: telephone and network technology, communication, CASE
Frequency: monthly
ISSN: 0915-2326
English: titles; abstracts; author names, affiliations, and addresses

Name: *NTT Technical Journal*
Scope: telephone and network technology, communication, CASE
Frequency: monthly
ISSN: 0915-2318
English: none

3.2. NEC Corporation

Organization Name and Address:

NEC Corporation
33-1 Shiba 5-chome
Minato-ku, Tokyo 108
Japan

Publications in English:

Name: *NEC Research and Development*
Scope: hardware, software, AI
Frequency: quarterly
ISSN: 0547-051X
Subscrip: Dai-Ichi Publications Trading Co, Ltd., Rm. 901, Shinjuku Q Flat Bldg., 5-4-1, Shinjuku-ku, Tokyo 160, Japan

Publications in Japanese:

Name: *NEC Technical Journal*
Scope: hardware, software, AI
Frequency: monthly
ISSN: 0547-4139X
English: table of contents; titles; abstracts; author names and affiliations

3.3. Fujitsu, Ltd.

Organization Name and Address:

Fujitsu Ltd.
1015 Kamikodanaka, Nakahara-ku
Kawasaki 211, Japan

Publications in English:

Name:	*Fujitsu Scientific and Technical Journal*
Scope:	hardware, software, AI
Frequency:	quarterly
ISSN:	0016-2523
Subscrip:	Kinokuniya Company Ltd., 3-17-7 Shinjuku, Shinjuku-ku, Tokyo 160-91, Japan

Publications in Japanese:

Name:	*Fujitsu Technical Journal*
Scope:	hardware, software, AI
Frequency:	quarterly
ISSN:	0016-2515
English:	table of contents; titles; abstracts; author names

3.4. Toshiba Corporation

Organization Name and Address:

Toshiba Corporation
1-1 Shibaura 1-chome
Minato-ku, Tokyo 105-01
Japan

Publications in English:

Name:	*Toshiba's Selected Papers on Science and Technology*
Scope:	hardware, software, AI, general computer science and communications
Frequency:	semi-annual
ISSN:	0916-1465
Subscrip:	Toshiba Review Editorial Office at above address

Name:	*Infolink*
Scope:	high-technology reports and general information about Toshiba
Frequency:	quarterly
ISSN:	unknown
Subscrip:	Toshiba Review Editorial Office at above address

Publications in Japanese:

Name:	*Toshiba Review*
Scope:	hardware, software, AI
Frequency:	monthly
ISSN:	0376-0462
English:	table of contents; titles; abstracts; author names and affiliations
Subscrip:	Toshiba Corp., Review Journal Editorial Office, 72 Yanagicho, Saiwai-ku, Kawasaki 210, Japan

3.5. Hitachi, Ltd.

Organization Name and Address:

Hitachi, Ltd.
6 Kanda Surugadai 4-chome
Chiyoda-ku, Tokyo 101
Japan

Publications in English:

Name:	*Hitachi Review*
Scope:	general, hardware, software, AI
Frequency:	bi-monthly
ISSN:	0018-277X
Subscrip:	Hitachi Review at above address

Publications in Japanese:

None

3.6. Mitsubishi Electric Corporation

Organization Name and Address:

Mitsubishi Electric Corporation
Nihon Bldg. 650, Otemachi 2-6-2
Chiyoda-ku, Tokyo 100
Japan

Publications in English:

None

Publications in Japanese:

Name:	*Mitsubishi Electric Journal*
Scope:	hardware, software, AI
Frequency:	monthly
ISSN:	0369-2302
English:	table of contents; titles; abstracts; author names

3.7. Matsushita Electric Works, Ltd. (National, Panasonic)

Organization Name and Address:

Matsushita Electric Works, Ltd.
33-1 Shiba 5-chome
1048 Ooza Kadoma, Kadoma-shi
Osaka 571, Japan

Publications in English:

None

Publications in Japanese:

Name:	*National Technical Report*
Scope:	hardware, software, AI
Frequency:	unknown
ISSN:	0285-5054
English:	table of contents; titles; abstracts

3.8. Sanyo Corporation

Organization Name and Address:

Sanyo Corporation
Souya 1-18-13, Hirakata-shi
Osaka 573, Japan

Publications in English:

None

Publications in Japanese:

Name:	*Sanyo Technical Review*
Scope:	general, hardware, software, AI
Frequency:	quarterly
ISSN:	0285-516X
English:	table of contents; titles; abstracts; author names and addresses

3.9. Fuji Electric Corporation

Organization Name and Address:

Fuji Electric Corporation
Yurakucho 1-12-1, Chiyoda-ku
Tokyo 100, Japan

Publications in English:

None

Publications in Japanese:

Name:	*Fuji Electric Journal*
Scope:	hardware
Frequency:	monthly
ISSN:	0367-3332
English:	table of contents; titles; abstracts; author names

4. Publications by Government Laboratories

4.1. Electrotechnical Laboratory

Organization Name and Address:

Electrotechnical Laboratory (ETL)
Agency of Industrial Science and Technology
Ministry of International Trade and Industry
1-1-4 Umezono, Tsukuba
Ibaraki 305, Japan

Publications in English:

None

Publications in Japanese:

Name:	*Bulletin of the Electrotechnical Laboratory*
Scope:	hardware
Frequency:	monthly
ISSN:	0366-9092
English:	table of contents; titles; abstracts; author names and affiliations; sometimes entire articles