

THE FINITE STRING



LETTER OF THE ASSOCIATION FOR COMPUTATIONAL LINGUISTICS

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THE JOURNAL OF COMPUTATIONAL LINGUISTICS is published by the Center for Applied Linguistics for the Association for Computational Linguistics.

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Association for Computational Linguistics

AN EXPERIMENT IN PROCEDURES FOR
EDITORIAL REVIEW

POLICY

The Editorial Board, with the Editor as chairman, is collectively responsible for the scientific merit of articles published in the Journal, and the Editor is bound by their decision.

If three or more members of the Board vote to reject a contribution, the Journal will not publish it.

If one or two members vote to reject the Editor will act in accordance with his best judgment.

The Editor is individually responsible for the editorial and graphic acceptability of articles published in the Journal. The members of the Editorial Board collaborate at their discretion in the judgment of style, clarity, and organization.

The Journal does not undertake to deliver an exhaustive commentary on articles submitted. In its discretion, and on the specific request of an author, the Journal may deliver critiques of substance or style.

PROCEDURE FOR A LONG CONTRIBUTION

The author submits a 650-word brief, which will be used for review and published, in general after revision, on an opaque card. The summary must tell what the contribution will tell; an indication of the nature of the contribution is not sufficient.

more

EDITORIAL REVIEW

For editorial review, 20 copies are needed. The copies can be produced in the AJCL office, but the author *delays review* by submitting only one copy of the summary.

FIRST REPLY. ACJL responds, ordinarily within two weeks either rejecting the contribution or committing itself to publish the contribution in full with some general, and possibly some particular, stipulations.

In general, the full text must support, by its evidence and argument, the promises of the summary. It must be clear.

In particular, reviewers may note kinds of detail that are essential in the full text, or reserve the right to examine a full text before agreeing to publication.

FINAL SUBMISSION. The author furnishes a copy ready to photograph. Page size must be 8.5x11"; margins must be a full inch on all sides; pagination should begin with a title page, summary, and table of contents; page numbers should be top; typing and drawing should be sharp and black on a smooth white background.

Since the 9/-page limit is often not restrictive, the author can help the reader by displaying major points, inserting figures and tables on the same page with textual discussion, and appending examples, lists, programs, flowcharts, and so

FURTHER NEGOTIATION. The Journal will return unsatisfactory texts for revision. The return is generally within a week or two, but can be longer if more than one person's judgment is required. If the full text clearly and adequately expands the summary, no return will be made.

The Journal does not maintain a backlog. All finished manuscripts are cleared on each closing date.

more

SHORT CONTRIBUTIONS

The author can submit a summary for the same review as for a long contribution or a full text. For review of a short contribution in full, four copies are needed. The photographable version must have a summary on its first page, beginning 4" from the top of the sheet.

Any text up to 20 pages is short; any text over 40 pages is long. Between 20 and 40 pages, contributions are handled on their merits; some may be held for combination on a symposium fiche with other similar texts.

SHORT COURSE ON

INFORMATION RETRIEVAL
AND DYNAMIC LIBRARY PROCESSING

CORNELL UNIVERSITY

DATES June 23-27, 1975

LECTURER Gerard Salton

TEXT Dynamic Information and Library Processing

CONTENT New techniques for automatic indexing and document content analysis term classification, optimum thesaurus construction, document classification and file organization, interactive search and retrieval, file growth and document retirement methodology, dynamic collection control

The text, by Salton, is in press with Prentice Hall.

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THIRD INTERNATIONAL SUMMER SCHOOL IN
L I N G U I S T I C S

POLYTECHNIC OF CENTRAL LONDON
35 Marylebone Road
London NW1 5LS

JULY 21 - AUGUST 8, 1975

A basis for further application and research in language and linguistics, open to teachers, translators, beginners, and advanced students. Some knowledge of at least one foreign language is desirable but not essential. Beginners and those with some previous knowledge are separated.

CONTENT

Principles phonology, grammar, and semantics; applications in translation teaching, remedial work, and communications.

Options offered in literary translation and translation technique; dyslexia; teaching adult illiterates; lexicography; comparative and historical linguistics; phonetics. Subject to enrollment, also in Chinese, Basque, and Russian (beginners)

ARRANGEMENTS

Single study bedrooms at the Polytechnic are available to early applicants at £10.50 a week (£31.50 for the course).

Participants will have the use of the library of the School of Modern Languages which is particularly well-stocked with linguistics books and journals.

The course consists of 4-5 hours of lectures and seminars daily Monday to Friday. Groups of participants with common interests and requirements are proposed. Group work will be supplemented by plenary sessions.

STAFF

Alex Auswaks is course director, Lecturers are members of the PCL staff and graduate students of the PCL Post-Graduate Diploma in Linguistics.

NFAIS ADOPTS A PLAN FOR A SYSTEM OF
DOCUMENT ACCESS

Anyone would be able to get a copy of any journal article, conference paper, dissertation, report, map, book, or other document cited in the indexing or abstracting publication of any member of nfais, if the National Commission on Libraries and Information Science includes in its program a plan approved by the nfais board of directors on March 2, following a two year study.

Member services would furnish copies of the documents they cite to selected research libraries. Customers would pay for copies, taking care of the libraries and copyright holders alike. The plan is for the government to pay development and management costs for the system.

A copy of the position paper describing the plan can be obtained from the National Federation of Indexing and Abstracting Services, 3401 Market Street, Philadelphia, Pennsylvania 19104.

COMPUTATIONAL LINGUISTICS (A BIBLIOGRAPHY WITH ABSTRACTS)

Carolyn Gatsoff
National Technical Information Service
Springfield, VA.

Report No. NTIS/PS-75/032/3GA PC \$25, MF \$25 1964 - Oct. 1974

The bibliography contains 108 selected abstracts of federally funded research reports concerning computational linguistics. Some of the applications are in the fields of natural language analysis and information retrieval.

PROSODIC AIDS TO SPEECH RECOGNITION: V. A SUMMARY OF RESULTS TO DATE

Wayne A. Lea
Sperry UNIVAC
Defense Systems Division
St Paul, Minnesota

Report No. PX-11087, October 1974.

Prosodic features detect boundaries between phrases; stressed syllables are located within each phrase, and an analysis is done within stressed syllables. Listeners' perceptions of stressed syllables corresponded to locations of stressed syllables obtained from prosodic features. Results showed that automatic phone categorization is much more accurate in stressed syllables. Stressed vowels tended to be equally spaced in time, but the number of intervening unstressed syllables had a more prominent effect on inter-stress interval than expected. Prosodic features appear to be useful for providing cues to sentence type, syntactic bracketing occurrences of coordination and subordination, and specific semantic structures.

AD/A-003 931/3GA. PCS3.75/MFS2.25.

SYNTHESIS OF SPEECH FROM A DYNAMIC MODEL OF THE VOCAL CORDS
AND VOCAL TRACT

J. L. Flanagan K. Ishizaka, and K. L. Shipley
Bell Laboratories

The Bell System Technical Journal, 54, 3, 485-506. March 1975

Describing a computer model of the human vocal cords and vocal tract that is amenable to dynamic control by parameters directly identified in human physiology. The control format provides an efficient, parsimonious description of speech information. Control parameters represent subglottal lung pressure, vocal-cord tension and rest opening, vocal-tract shape, and nasal coupling. Vowel-consonant-vowel syllables are synthesized using these inputs to demonstrate the dynamic behavior of the cord/tract model. Inherent properties of the model duplicate phenomena observed in human speech; in particular, cord/tract acoustic interaction, cord vibration, and tract-wall radiation during occlusion, and voicing onset-offset behavior. An approach to derive the physiological controls automatically from the printed text is described, and sentence-length synthesis obtained from a preliminary system is presented

CONCORDANCES IN THE SEVENTIES

W. Ingram
University of Michigan
Ann Arbor

Computers in the Humanities 8, 5-6, 273-277. Sept. - Nov. 1974

The computer has eliminated much of the drudgery of compiling a concordance. However, there is often a lack of effort in post-editing the computer output, for example, in dealing with homographs, epithets, non-standard spellings.

DEPENDENCY GRAMMAR

David G. Hays
State University of New York
Buffalo

Encyclopedia of Computer Science and Technology, edited by Jack Belzer, Albert G. Holzman, and Allen Kent. Marcel Dekker, Inc. New York, In press. Manuscript August 1974.

Origins: traditional. Form: A finite set of class symbols and a mapping of a finite or infinite set of strings onto the set of class symbols; rules. With features, a rule is a feature pair; some features appear in rules as dependent features, some do not. Algorithms: pushdown generator, three parsers: Polish prefix notation, single parse, all possible. The second uses precedence, the third uses a wanted list. Weak equivalence with constituency. Natural choice of governors in phrase-structure grammars. Transformation: e.g., passive is "Agent(Noun) ; FIRST". Dependency grammar for predicate logic; for a programming language. "In programming as in logic, grammar and quantification have different structures."

THE PARSING PROGRAM FOR AUTOMATIC TEXT-TO-SPEECH SYNTHESIS
DEVELOPED AT THE ELECTROTECHNICAL LABORATORY IN 1968.

Noriko Umeda
Bell Laboratories
Murray Hill, New Jersey

and Ryunon Teranishi
Kyushu Institute of Design
Fukuoka, Japan

IEEE Transactions on Acoustics, Speech, and Signal Processing,
ASSP-23, 2, 183-188, April 1975

The parser handles unique problems for a speech production system, especially of phrase-structure analysis in regard to stress and pause assignments. The parsing program consists of a dictionary of about 1500 most frequently used words, a simple syntactic analyzer and a breath-group delimiter. The syntactic analyzer, with the assistance of information stored in the dictionary, divides the sentence into phrases, and assigns pause markers at major syntactic boundaries; the breath-group delimiter decides actual pauses and sentence stress. The output of the parsing program consists of a sequence of phonemes with stress marks and of phrase termination marks. These letters and marks are transformed into vocal tract shapes, duration, and pitch signals in the subsequent part of the synthesis system. The parsing program, written in the PL/I language, consists of about 1900 statements.

SEMANTIC NETWORKS

Allan M. Collins, and Eleanor H. Warnock
Bolt Beranek and Newman Inc.
Cambridge, Massachusetts

Report No. BBN-2833, May 1974

The work on semantic networks involves three distinct areas: inferences, map displays, and English comprehension. Inference strategies implemented in SCHOLAR include different types of deductive, negative, and functional inferences. The graphics package allows users to ask questions and give commands in English to control SCHOLAR's map display, which is tied into the semantic network on South American geography. With partial support from this contract, we also developed an English Comprehension System, utilizing a data base on the ARPA network. Unlike geography, most questions about the ARPA network pertain to actions and procedures involving complicated English sentence structure, necessitating sophisticated parsing and retrieval strategies.

AD-782 663/9GA. PC\$3.75/MF\$2.25.

SOLAR (A SEMANTICALLY⁴ORIENTED LEXICAL ARCHIVE):

CURRENT STATUS AND PLANS

T. Diller, and J. Olney
System Development Corporation
Santa Monica, California

Computers in the Humanities 8, 5-6, 313-319. Sept - Nov. 1974

SOLAR is designed to permit a researcher to access a broad range of semantic data keyed to individual words. There are seven logical files: (1) semantic analysis; (2) explanatory notes for the descriptive constants used in the semantic analysis; (3) conceptual analysis of the notions involved by the descriptive constants; (4) collocational features correlated with particular word senses; (5) semantic files; (6) definitional expansions; (7) context of occurrence.

BELIEF SYSTEMS AND LANGUAGE UNDERSTANDING

Bertram C. Bruce
Bolt Beranek and Newman Inc
Cambridge, Mass.

Report No. 2973, Bolt Beranek and Newman Inc. January 1975

Knowledge about intention allows us to recognize the distinction between requests and orders, promises and threats, or lies and informings. To recognize intention in behavior, speech or otherwise, requires a model of the beliefs of others, how actions fit together into larger units, and how aspects of an action are determined by intentions and beliefs. A theory of personal causation has primitives to describe the social aspect of an action. It defines "Social action paradigms" (SAP's) in terms of social actions. The SAP's provide a structure for episodes analogous to the structure a grammar provides for sentences.

THE ROLE OF MEMORY IN LANGUAGE PROCESSING

Roger C. Schank
Yale University

In: The Nature of Human Memory, edited by C. Cofer and R. Atkinson. W. H. Freeman Co., in press. Manuscript February 1975]

Woods, Winograd, Simmons, and others build semantic routines to operate on parser output. Schank, Wilks, and Riesbeck build semantic processors that call parsers only on failure. All these authors recognize that linguistic processing is inseparable from memory. Understanding is the attachment of what is explicit in a text to what is already known. Inferences are what is likely to be true about an input but not necessarily so. Conceptual dependency is a memory model with 11 primitive acts and 4 kinds of causal links. Memory is a morass of episodes, linked in time and space, accessible by the concepts that make them up. Inferences are generalized episodes, called scripts: plans that have been used a lot.

COGNITIVE NETWORKS

David G. Hays
 State University of New York
 Buffalo

Encyclopedia of Library and Information Science, edited by Allen Kent and Harold Lancour. Marcel Dekker, Inc., New York. In press. Manuscript February 1975.

Network storage tends to obviate calculation, but a hybrid system adds an external processor which can see the network in broad perspective. An active network has a processor at each node; an external process sets initial and terminal conditions. Inheritance is a global process, communicated on paradigmatic links; indirect addressing uses them inversely. Representation is the relation between a single node and a subnetwork, e.g. a definition. Primitive nodes are defined externally; nonprimitives are constructed, e.g. a form has color and shape. Placement links object, position, and moment. The mind consists of LTM, STM .CPU; the CPU forms an idea in STM that corresponds to the content of the sense organs and LTM etc. Desires stimulate the CPU to link ideas with purpose arcs. Causality links systems without specifying mechanisms of interaction. Applications in information retrieval and robotics. References: LNR Research Group, Schank.

A SURVEY OF COMPUTER-AIDED RESEARCH IN EARLY GERMAN

Rudolf Hirschmann
 University of Southern California

Computers in the Humanities 8, 5-6, 279-284 Sept - Nov. 1974.

The topics covered are: (1) Conferences and published research; (2) Clearinghouses; (3) Projects listed with clearinghouses. A bibliography of 50 entries is given.

INFERENCE AND THE COMPUTER UNDERSTANDING OF NATURAL LANGUAGES

R. C. Schank, and C. J. Rieger, III
Stanford University [Now: Yale (RCS), U. of Maryland (CJR)]

Artificial Intelligence 5, 4, 373-412. 1974

The notion of computer understanding of natural language is examined, relative to inference mechanisms designed to function in a language free conceptual base (Conceptual Dependency). The conceptual analysis of a natural language sentence into this conceptual base and the nature of the memory which stores and operates upon these conceptual structures are described both from theoretical and practical standpoints. The various types of inferences which can be made during and after the conceptual analysis of a sentence are defined.

OPTIMIZATION OF SYSTRAN SYSTEM

Peter P. Toma, Ludek A. Kozlik and Donald G. Perwin
Latsec Inc.
La Jolla, California

Report No. RADDC-TR-73-155-rev. May 1974.

A 12-month effort aimed at improving the output of the SYSTRAN System for machine translation of Russian scientific and technical literature into English, based upon analysis of a large amount of SYSTRAN-translated Russian text. Areas of output-language construction include (1) transfer grammar problems, i.e.; grammatical conversion of Russian Adnominal genitive constructions, deverbative noun constructions and voice, number conversion, and (2) synthesis problems, i.e., English equivalent suppression, article insertion, disambiguation of dash and others. Input language analysis for purposes of structural disambiguation includes syntax and word classes, i.e., 'measure parameters and measurables', subject/predicate correlations, strong and weak adnominal genitive government.

AD-777 850/9GA. PC\$10.50/MFS1.45.

SOME PROBLEMS IN GERMAN TO ENGLISH MACHINE TRANSLATION

Gretchen Purkhisér Brown
Massachusetts Institute of Technology
Cambridge

Report No. MAC-TR-142. December 1974

The paper discusses some problems in the machine translation of natural language, in particular, for translation of German into English. An implementation of some parts of the translating process has been built. The system consists of a German interpretive grammar, to take in German text and output a set of semantic representations, and a generator, to produce English sentences from single semantic representations. Special attention is paid to questions of semantic representation in a multi-language setting and to stylistic issues in English generation. [AD/A-003 002/3GA PC \$7/MF \$2.25]

LEXICAL DOMINANCE IN BILINGUALS

Roy Lachman and Janet Mistler-Lachman
University of Houston

Bulletin de Psychologie 1975, in press

Progress in machine translation may first require understanding the psychological basis of bilingual competence. The outcome of research on bilingual performance is rationalized in a process model of language and memory. Bilinguals who had histories of abrupt transitions between exclusive use of the mother tongue and the adopted language permitted clear answers to several questions: over 15 years of continuous use of an adopted language may be required for it to become dominant. The switching of languages in a picture-naming task permitted inferences as to the role of a lexical system and its conceptual or meaning substrate. The two systems are at least partially independent. German and English appear to be comparable in codability.

COGNITION: THE LINGUISTIC APPROACH

David G. Hays
State University of New York
Buffalo

Proceedings of the 1974 Pisa Summer School in Computational Linguistics, edited by Antonio Zampolli; to appear. Manuscript April 1975.

The speaker-hearer consists of a thought-speech converter or pair of them; a store of knowledge; an explicator; and a battery of physical appetites, including one for human association. The store is a cognitive network (Norman, Rumelhart, Lindsay; Schank). The explicator and converter have the same form, but have different input and output connections. The store consists of property, entity, event, and plan (causal) nodes, some defined by sensorimotor schemata (Powers). They vary in order (Powers); channel, scope (e.g. size), and frequency (Julesz). They are linked paradigmatically and syntagmatically. Episodic memory is a collection of modality nodes, each representing a syntagmatic network. The explicator relates groups of episodes, forming more abstract episodes, which are represented by nodes in the original store. The linguistic network has the same form as the store; its nodes are both content and grammar. The converter is the explicator under another name.

THE INTERACTION OF INFERENCES, AFFECTS, AND INTENTIONS,
IN A MODEL OF PARANOIA

Bill Faught, Kenneth Mark Colby, and Roger Parkison
Department of Computer Science
Stanford University

Report Nos. Stan-CS-74-471, AIM-253. December 1974.

The analysis of natural language input into its underlying semantic content is but one of the tasks necessary for a system (human or non-human) to use natural language. Responding to natural language input requires performing a number of tasks (1) deriving facts about the input and the situation in which it was spoken; (2) attending to the system's needs, desires, and interests; (3) choosing intentions to fulfill these interests; (4) deriving and executing actions from these intentions. The authors describe a series of processes in a model of paranoia which performs these tasks. The authors also describe the modifications made by the paranoid processes to the normal processes. A computer program has been constructed to test this theory.

AD/A-003 487/6GA. PCS3.75/MFS2.25.

THE USE OF FUNCTION WORD FREQUENCIES AS INDICATORS OF STYLE

Fred J. Damerau
IBM T. J. Watson Research Center
Yorktown Heights, N.Y.

Report No. RC 5239 January 28, 1975

The distributions of words whose text frequencies were greater than five times in ten thousand were tested to determine which of them might be said to have been generated by an underlying Poisson process. For five different samples from well-known novels, only very few words have this property over all. Such words, relatively independent of content to be expressed, would reflect "minor encoding habits" (Paisley), but if the status of each word has to be checked for each author, then the search for indicators of style and authorship must be pursued elsewhere.

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MEMBERSHIP
DIRECTORY 1974

A list of persons belonging to the Association for Computational Linguistics. Specialized interests are listed for those who returned directory cards early in 1975; the exact text supplied by the member is copied here.

A subject index is printed on cards.

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S O L A R B I B L I O G R A P H Y

The SOLAR bibliographic file is available as of April 1, 1975. at SDC via the ARPA network. Either TELNET or TIP entry is possible. The accessing protocols are outlined beginning on frame 74.

The file contains over 5,000 citations to documents in acoustic and instrumental phonetics, neurolinguistics, speech perception, speech production, speech pathology, language learning, psycholinguistics, sociolinguistics, syntax, semantics, and computational linguistics.

Among the 30 categories of data provided for are the following:

<u>Abbreviation</u>	<u>Category</u>	<u>Searchable</u>
AU	Author	
AR	Individual author	X
TI	Title	
JO	Journal	
PU	Publisher	
PY	Publication year	X
VO	Volume	
PA	Pages covered	
ED	Editor	
AB	Abstract	
NO	Notes	
IT	Index term	X
DT	Document type	X
SI	Subject identification	X
ID	Document ID number	X
BO	Book article is in	

The searcher types in an expected value for one of the searchable categories. For example, if searching for documents treating movement transformations, he could type:

extrapos# (IT)

or cleft# <CR>

The search terms must be entered unpunctuated. The # sign stands for an indeterminate string of characters. The parenthesized field identifier limits the search for the preceding term to that category.

A search can also be made of the non-indexed fields using the STRINGSEARCH facility. Typing EXPLAIN STRINGSEARCH"- <CR> gets the details.

Special print formats are available for selected citations:

Command	Fields Returned
"PRINT"	All data in a normal citation
"PRINT SHORT"	Author, title, & publication year
"PRINT FULL"	All fields

Typing "EXPLAIN PRINT" <CR> yields details of possibilities for tailoring print commands.

Reference

Diller, I. User's guide to the SOLAR bibliography file, SDC Document TM-5292/000/01.

Accessing SOLAR Files

1. To connect to SDC CMS via a TIP, make sure your terminal is set to full duplex and type:

```
@T <SP> 0 <SP> L <CR>      'transmit on linefeed'  
@L <SP> 8 <CR>           'log to host #8 (SDC)'
```

When CMS returns a period (.) in column 1, you are expected to login.

2. To login, type:

```
LOGIN SOLAR <CR>
```

If the login is not in use, SOLAR will print some sign-on messages and take care of mounting the SOLAR disk pack (if necessary). You will then be asked to sign our visitors log. The signal for your response throughout your interaction with SOLAR will be a hyphen (-) in column 1. Please wait for that prompt before typing. Finish each input by striking the carriage return <CR> key. Either upper case, lower case, or a mixed input is acceptable.

Once signing-in and introductions are over, the SOLAR data management system will access the currently available files and connect you to the BIBLIOGRAPHY data file.

If SOLAR is already being used, you must wait and try later. You can, however, send a message to the SOLAR user by typing:

```
M SOLAR ...message... <CR>
```

(He cannot reply though).

more

3. To obtain an introduction to the SOLAR DMS, ask for the new-user format when that option is given. Or, type

```
"EXPLAIN SUMMARY" <CR>
```

with quotes), which will give you a briefing on searching and printing procedures, command names, and program messages.

4. To obtain an introduction to the file being accessed, type

```
"EXPLAIN DATABASE" <CR>
```

5. To search for categories of interest, type in the expected value for an indexed category. E.g,

```
caus# <CR>
```

The # sign is a variable which stands for an indeterminate string of characters.

6. To print data once an entry is selected, you can use the standard print formats. Type

```
"EXPLAIN PRINT FORMATS" <CR>
```

for details.

7. To halt printout of data on your terminal, hit the break key once and wait for the SOLAR prompt (-). Then type

```
HT <CR>          'halt typing'
```

When prompted again, hit <CR> and SOLAR will ask for your next query.

8. To move to a new data file, type

```
"FILE FNAME " <CR>
```

For more details. type

9. To quit your interaction with SOLAR, type

QUITIT <CR>

The interface between SOLAR DMS and the network FTP capability has not yet been achieved (March 1975), so at the moment all printout must be to your terminal. You can use the SOLAR "comment" command to advise us of what you would like mailed to you via off-line listings or to vent your frustrations with SOLAR's quirks.

--from a SOLAR release
System Development Corporation
March 27, 1975

END

