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Index of Published Papers

C. G. Lambert M. J. Nicholson

5 October 1967

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SP *a professional paper*

Index of Published Papers

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M. J. Nicholson

5 October 1967

SYSTEM

DEVELOPMENT

CORPORATION

2500 COLORADO AVE.

SANTA MONICA

CALIFORNIA

90406



ABSTRACT

This annotated index supplements SP-0/000/05. It lists papers written by members of the professional staff of the System Development Corporation. All of these papers appeared as books, as chapters of books, as articles in journals, and/or as reports in SDC's "SP" series from December 1966 to September 1967.

INTRODUCTION

This annotated index supplements SP-0/000/05 and is in three parts. Part 1 lists the papers alphabetically by author and gives information concerning publication. The information given includes the DDC (Defense Documentation Center) AD Number whenever possible. Annotations are included in most cases. Part 2 lists the papers alphabetically by subject, and Part 3 lists them alphabetically by title and by selected key-words in the titles. All titles are unclassified.

To obtain copies of these papers order directly from the periodical or book publisher indicated. Order from SDC only those items not available elsewhere.

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A U T H O R I N D E X

PART 1

Ajelson, M.THE WELFARE SYSTEM: DOES IT HAVE A FUTURE?
(SP-2860) 49pp.

Printed at SDC, 31 May 1967.

Views the future of the welfare system and outlines trends on which this future may depend.

Ancker, C. J.

THE STATUS OF DEVELOPMENTS IN THE THEORY OF STOCHASTIC DUELS - II (SP-1017/008/01) 32pp.

Published in Operations Research, Vol. 15, No. 3, May-June 1967.

Printed at SDC, 28 September 1966.

DDC number: AD-640 592

Outlines the history and principal features of the Theory of Stochastic Duels as well as the major analytical results to date. Considers areas for future research and possible fields of application. Discusses the connection with other models of combat such as Lanchester's equations and games of strategy. Includes an annotated bibliography.

Ancker, C. J.STOCHASTIC DUELS WITH TIME-OF-FLIGHT INCLUDED
(SP-1017/009/00) 28pp.Published in Opssearch, Vol. 3, No. 2, 1966 (p. 71-92).

Printed at SDC, 19 May 1966

DDC number: AD-633 912

The fundamental duel in the Theory of Stochastic Duels is extended to include projectile time-of-flight. As a preliminary, the marksman firing at a passive target is studied. General solutions and examples are given. The analysis indicates in a quantitative way how time-of-flight may radically influence the outcome.

Ancker, C. J.A SIMPLE RENEWAL MODEL OF THROUGHPUT AT AN OVERSATURATED SIGNALIZED INTERSECTION
(SP-2122/000/01) 19pp.Published in Transportation Research, Vol. 1, 1967 (p. 57-65).

Printed at SDC, 28 October 1966.

DDC number: AD-645 434

The effect of random headways on throughput at an oversaturated signalized intersection is studied. It is shown that a deterministic (mean value) model is quite accurate for mean value calculations, but that variability in headways does cause significant variance in throughput.

Atkinson, R. C. and R. E. Dear, D. P. Estavan,
H. F. Silberman

AN OPTIMAL STRATEGY FOR THE PRESENTATION OF PAIRED-ASSOCIATE ITEMS (TM-1935/101/00) 58pp.

Published in Behavioral Science, Vol. 12, No. 1, January 1967 (p. 1-13).

Printed at SDC, 10 March 1965.

DDC number: AD-615 713

This study was concerned with the implementation of certain mathematical results that give optimal ways to present stimulus items in learning experiences. The effects of training subjects in several paired-associated experiences were compared by the strategy and by another simple presentation strategy.

Barrar, R. B.CONVERGENCE OF THE VON ZEIPPEL PROCEDURE
(SP-2810/000/01) 20pp.

Printed at SDC, 20 July 1967.

Presents another mathematical proof for solving problems in celestial mechanics. The proof is based on a suggestion of A. N. Kolmogorov in the 1954 Doklady.

Barrett, R. P. and L. F. Carter, M. H. Coer,
J. W. Singleton, V. F. Shanklas*
SOCIAL SCIENCES INFORMATION SYSTEMS WORKSHOP PROCEEDINGS (Warrentown, Va., May 1966) (Unnumbered) 115pp.

Shelved as SDC Library #48564.

Co-sponsored by American University, Center of Research in Social Systems. Contents: Keynote address. The Social Sciences and Information Systems, by L. F. Carter (SP-2510); Information Technology and Automation Group, summary by J. W. Singleton, and M. H. Coer; Closing remarks and summary by R. P. Barrett, J. W. Singleton, and others.

Bartram, P. R. and W. D. Williams*

COMPOSE/PRODUCE: A USER-ORIENTED REPORT GENERATOR CAPABILITY WITHIN THE SDC TIME SHARED DATA MANAGEMENT SYSTEM (SP-2634) 38pp.

Published in the Proceedings of the Spring Joint Computer Conference, Vol. 30, April 1967 (p. 635-640).
Printed at SDC, 8 February 1967.

Describes a two-step report generation program to give a non-programming-oriented user the ability to access a large file of data on-line so as to describe and generate a report. This program is part of TMS.

Bleier, R. E.TREATING HIERARCHICAL DATA STRUCTURES IN THE SDC TIME-SHARED DATA MANAGEMENT SYSTEM (TMS)
(SP-2750) 23pp.

Printed at SDC, 29 August 1967.

Describes a method within the Time-shared Data Management System (TMS) that permits the automatic association of related data. Discusses the design features required to implement the technique and gives numerous examples of the use of the TMS language to define, load, and query a personnel data base.

Borko, H. and H. P. BurnaughINTERACTIVE DISPLAYS FOR DOCUMENT RETRIEVAL
(SP-2557) 25pp.Published in Information Display, Vol. 3, No. 5, September/October 1966 (p. 47-90).
Printed at SDC, 4 August 1966.

Discusses BOLD (Bibliographic On-Line Display) and states that it is an example of a highly automated interactive document storage and retrieval system that is in operation at SDC. BOLD enables the user to browse through the data base by subject categories or search for specific documents. The response is rapid and the results are satisfying.

Borko, H.

THE ANALYSIS AND DESIGN OF INFORMATION SYSTEMS
(SP-2655) 21pp.

Published in the Proceedings of the Drexel Institute of Technology Symposium, June 1967.

Printed at SDC, 10 November 1966.

DDC number: AD-645 517

Provides an orientation to the procedures used in system analysis and in the design of information systems. The principles used in the analysis and design are derived from information science which provides a conceptual basis for understanding the functioning of information handling system.

Burger, J. F. and R. E. Long, R. F. Simmons

AN INTERACTIVE SYSTEM COMPUTING DEPENDENCIES,
PHRASE STRUCTURES AND KERNELS (SP-2454/000/01)
29pp.

Printed at SDC, 29 June 1967.

DDC number: AD-654 926

Describes an automatic syntactic analysis system programmed in LISP. Reports that this is an interactive system that derives a grammar from hand-parsed sentences. Interactive features include the capability for users to change the grammar, to select one of several presented parses, to correct errors in the parsing, and to select various displays either on a CRT or in printed form.

Burger, J. F.

UMPIRE: AN AUTOMATIC KRIEGSSPIEL REFEREE FOR
A TIME-SHARED COMPUTER (SP-2752) 17pp.

Printed at SDC, 17 February 1967.

DDC number: AD-648 759

Describes a computer program that performs all of the functions of referee for the game of Kriegsspiel, a variation of the game of chess. While not a game-playing or heuristic program in itself, the program contains all the necessary routines for the basic representation of a dynamic chess game, and may thus be used as the core upon which could be built the heuristics for actual chess-playing program.

Cannon, W. M. and D. K. Perry

VOCATIONAL INTEREST OF COMPUTER PROGRAMMERS
(SP-2348) 7pp.

Published in the Journal of Applied Psychology,
Vol. 51, No. 1, 1967 (p. 28-34).

Analyses the results of the revised SVIB (Strong Vocational Interest Blank) tests administered to 1,378 computer programmers to determine their primary interest as compared to the interest of other professional men.

Cantley, G. and L. F. Carter, J. T. Rowell, L. Schultz,
H. R. Seiden, E. Wallace, R. Watson, R. E. Wyllys

NATIONAL DOCUMENT-HANDLING SYSTEMS FOR SCIENCE
AND TECHNOLOGY (unnumbered) 344pp.

Book published by John Wiley & Sons, Inc., New York.
Shelved as an SDC book number 7699-5-S3C32.

Describes present systems. Discusses basic propositions and requirements to be satisfied by an adequate S & T document system, and elucidates problems in current system. Sets forth plans for a new document handling system. Summarizes 15 previous proposals. Briefly describes VINITY and details the organization of a Capping Agency. Evaluates proposed systems.

Carlson, A. R.

CONCEPT FREQUENCIES IN POLITICAL TEXT: AN
APPLICATION OF A TOTAL INDEXING METHOD OF
AUTOMATIC CONTEXT ANALYSIS (SP-2192) 10pp.

Published in Behavioral Science, Vol. 12, No. 1,
January 1966 (p. 68-77).

Uses a computer routine, originally designed for information retrieval in natural language, to analyze the content of a political text. The uniqueness of the method lies in the fact that the data base is totally indexed.

Carter, L. F. and G. Cantley, J. T. Rowell,
L. Schultz, H. R. Seiden, E. Wallace,
R. Watson, R. E. Wyllys

NATIONAL DOCUMENT-HANDLING SYSTEMS FOR SCIENCE
AND TECHNOLOGY (unnumbered) 344pp.

Book published by John Wiley & Sons, Inc., New York.
Shelved as an SDC book number 7699-5-S3C32.

For annotation, see this title under G. Cantley.

Carter, L. F. and R. P. Barrett, M. H. Goer,
V. F. Shanklas, ed., J. W. Singleton,
H. C. Ullman, ed.

SOCIAL SCIENCES INFORMATION SYSTEMS WORKSHOP
PROCEEDINGS (Warrentown, Va., May 1966) 115pp.

Shelved as SDC Library #48564.

For annotation, see this title under R. P. Barrett.

Carter, L. F.

NATIONAL DOCUMENT HANDLING SYSTEMS IN SCIENCE
AND TECHNOLOGY (SP-2353) 5pp.

Published in Science, Vol. 154, No. 3754,
9 December 1966 (p. 1299-1304).

Outlines the federal government's responsibility for scientific and technical documentation and ways in which they can be met.

Carter, L. F.

KEYNOTE ADDRESS-THE SOCIAL SCIENCES AND
INFORMATION SYSTEMS (SP-2510)

Published in Social Sciences Information Systems
Workshop Proceedings, November 1966 (p. 9-21).

Carter, L. F.

PERSONALIZING INSTRUCTION IN MASS EDUCATION BY
INNOVATIONS IN THE TEACHING-LEARNING PROCESS
(SP-2722) 21pp.

Printed at SDC, 27 January 1967.

Discusses possibilities of personalizing education with major emphasis on applications and impact of computers and modern data processing.

Cogswell, J. F. and C. P. Donahoe, D. P. Estavan,
B. A. Rosenquist

AN ETHICAL AND MORAL ANALYSIS OF THE DESIGN FOR
A MAN-MACHINE COUNSELING SYSTEM: REACTIONS BY
A UCLA GRADUATE CLASS IN COUNSELING (SP-2874)
68pp.

Printed at SDC, 9 June 1967.

Presents a compilation of quotations from 16 UCLA students' term papers examining the design of the man-machine counseling system, with particular emphasis on evaluating the system from a moral and ethical standpoint. Concludes that the value of this compendium of student reactions might well be that it encourages people to become aware of their values before inflicting them on others.

Connelly, J. J.

DESIGN AND PRODUCTION OF COMPUTER PROGRAMS
(SP-1724/002/00) 30pp.

Published by John Wiley & Sons, New York.
Chapter 5 (p. 138-167) in "Developing Computer Base
Information Systems." Shelved as SDC Library
#Z699.R7B.

Describes the production process for a set of
computer programs in an information system development
context.

Coulson, J.E.

COMPUTERS IN RESEARCH AND DEVELOPMENT ON
AUTOMATED INSTRUCTION (SP-2473)

Published in LeConcours Medical, January 1967,
Vol. 1 of the 89th year (p. 11-23).

Quadra, C. A.

REPORT OF THE PROGRAM COMMITTEE FOR THE 1966 ADI
CONVENTION (SP-2692) 71pp.

Printed at SDC, 30 December 1966.
DDC number: AD-645 440

Presents a comprehensive report on the experiences
of the Program Committee for the 29th Annual
Meeting of the American Documentation Institute,
held in Santa Monica, California, from October 3-7,
1966. The report describes the program planning
and program support activities in detail; provides
samples of the materials, forms and schedules used;
highlights problems and successes; and makes a
number of detailed and general recommendation for
streamlining future ADI convention planning.

Danchick, R.

FURTHER RESULTS ON GENERALIZED PREDICTOR-
CORRECTOR METHODS (SP-2901) 28pp.

Printed at SDC, 29 July 1967.

Extends the existence of stable, maximal order,
multistep predictor-corrector methods described by
Cragg and Stetter. The key notion utilized in the
derivations is similar to that described by
Butcher, a quasi-Hermite Interpolating Polynomial.

Dear, R. E. and R. G. Atkinson, D. P. Estavan,
H. F. Silberman

AN OPTIMAL STRATEGY FOR THE PRESENTATION OF
PAIRED-ASSOCIATE ITEMS (TM-1935/101/00) 58pp.

Published in Behavioral Science, Vol. 12, No. 1,
January 1967 (p. 1-13).
Printed at SDC, 10 March 1965.
DDC number: AD-615 713

For annotation, see this title under R. G. Atkinson.

Dlugatch, I. and S. D. Manus

LARGE CAPACITY LASER MEMORY SPACE-BORNE COMPUTERS
(SP-2665) 10pp.

Printed at SDC, 13 March 1967.
DDC number: AD-648 752

Discusses the necessity for a space-born computer
memory of at least 10^6 bit capacity. Shows that
such a device could minimize computer hardware and,
at the same time, make feasible such devices as
spaceborne random-multiple-access and synergetic
satellites.

Dlugatch, I.

COMPUTER-AIDED DESIGN AS APPLIED TO SPACE
SYSTEMS (SP-2746), 41pp.

Printed at SDC, 15 February 1967.

Demonstrates that Computer-Aided Design (C-AD) can be
an implementation of the systems concept and could
increase efficiency in systems design. Establishes
the nature of design and the requirements for computer
use for this purpose. Defines the characteristic
of problems suited to C-AD and investigates samples of
such problems in communication satellite systems.

Dlugatch, I.

GAME THEORY SOLUTION FOR NON-REGULAR RANDOM EVENT
PROBLEMS: SMALL SAMPLE SIGNALS IN NOISY CHANNELS
(SP-2756) 17pp.

Printed at SDC, 21 February 1967.

DDC number: AD-651 575

Suggests a decision technique for use in noisy
channels with small samplings.

Dlugatch, I.

PREDICTING THE RELIABILITY OF MANNED SPACE
SYSTEMS (SP-2768) 15pp.

Printed at SDC, 28 February 1967.

Explains that the prediction of system reliability can
be performed by comparing the reliability of an
existing design to that of the reliability of the
new design. The success of the scheme depends on
the availability of data from engineering-psychology
tests for the calculation of human "failure" rates.

Dlugatch, I.

THE NEED FOR AND THE FEASIBILITY OF RANDOM
MULTIPLE ACCESS FOR COMMUNICATION SATELLITE
(SP-2858) 15pp.

Printed at SDC, 22 May 1967.

Examines random multiple access, its nature and its
problems. Outlines small size computers and
memory systems for spaceborne applications. Suggests
the use of a laser for this purpose.

Donahoe, G. P. and J. F. Cogswell, D. P. Estavan,
B. A. Rosenquist

THE DESIGN OF A MAN-MACHINE COUNSELING SYSTEM
(SP-2576/001/01) 17pp.

Printed at SDC, 30 September 1966.

DDC number: AD-640 653

For annotation, see this title under J. F. Cogswell.

Donahoe, G. P. and J. F. Cogswell, D. P. Estavan,
B. A. Rosenquist

AN ETHICAL AND MORAL ANALYSIS OF THE DESIGN FOR A
MAN-MACHINE COUNSELING SYSTEM: REACTIONS BY A
UCLA GRADUATE CLASS IN COUNSELING (SP-2874) 68pp.

Printed at SDC, 3 June 1967.

For annotation, see this title under J. F. Cogswell.

Doner, J. E. and A. Tarski*

AN EXTENDED ARITHMETIC OF ORDINAL NUMBERS
(SP-2811) 58pp.

Printed at SDC, 31 March 1967.

Discusses extending the Arithmetic of Ordinals to a

transfinite sequence of higher operations. Introduces a whole transfinite sequence of binary ordinal operations based upon a single concise recursion formula. Establishes a number of interesting similarities involving higher operation. Discusses problems concerning the existence of further identities of this type.

Estavan, D. F. and J. F. Cogswell, C. P. Donahoe,
B. A. Rosenquist
AN ETHICAL AND MORAL ANALYSIS OF THE DESIGN FOR
A MAN-MACHINE COUNSELING SYSTEM: REACTIONS BY A
UCLA GRADUATE CLASS IN COUNSELING (SP-2874) 68pp.

Printed at SDC, 9 June 1967.

For annotation, see this title under J. F. Cogswell.

Estavan, D. F. and R. C. Atkinson, R. E. Dear,
H. F. Silberman
AN OPTIMAL STRATEGY FOR THE PRESENTATION OF PAIRED-
ASSOCIATE ITEMS (TM-1935/101/00) 58pp.

Printed at SDC, 10 March 1965.

For annotation, see this title under R. G. Atkinson.

Fanwick, C.
SYSTEMS DEVELOPMENT AS A PART OF PLANNING FOR
HEALTH ENTERPRISES (SP-2745) 276pp.

Printed at SDC, 1 March 1967.

Describes the use of system analysis techniques to improve the efficiency of health facilities. Explains that the study of the information handling aspects of a health facility such as a hospital is central to the development of an efficient, total operating system. Describes the Puerto Rico Medical Center as an example.

Fanwick, C.
CAVEAT EMPTOR SYSTEMATIBUS (LET THE BUYER OF
SYSTEMS BEWARE) (SP-2900) 10pp.

Printed at SDC, 1 August 1967.

Takes a cynical look at some of the dangers of the "Systems Approach". Points to the paralysis wrought by over-analysis, and to the necessity for the systemist to recognize the user's needs.

Farr, L. and L. B. McCabe
AN INFORMATION SYSTEM FOR LAW ENFORCEMENT
(SP-2447) 7pp.

Published in the Proceedings-Fall Joint Computer Conference, 1966, San Francisco, California, 8-10 November 1966.

Summarizes activities of SDC and the LAPD in the analysis and design of phase I of the LAPD Information System by describing the most salient features of each. Discusses the implications for the phase I System as a regional system. Provides directions in which the LAPD System can expand to develop into a total law enforcement command and control system.

Feuers, M. M. and T. P. Haney
THE EMERGENCY OPERATIONS RESEARCH CENTER:
DISASTER BY DESIGN (SP-2807) 10pp.

Printed at SDC, 3 April 1967.

DDC number: AD-651 592

Emergency Operations Research Center (EORC) capabilities provide in a laboratory setting, an opportunity for the city's emergency operations team to evaluate and modify its plans and procedures in preparing for real emergency. Suggests a potential application of EORC technology to comprehensive urban and regional planning.

Filep, R. T.
THE RELATIONSHIP OF LEARNER CHARACTERISTICS TO
MEDIA STIMULI AND PROGRAMING SEQUENCES
(SP-2718/000/01) 35pp.

Printed at SDC, 3 April 1967.

Examines the relationship of learner characteristics presented in linear and branching sequences, develops and explores the value of a specially designed test battery comprise of divergent and convergent figural items for predicting learner performance.

Friedman, L. A.
DESIGN AND PRODUCTION OF SYSTEM PROCEDURES
(SP-1724/003/00) 36pp.

Published by John Wiley & Sons, New York.
Chapter 7 (p. 199-234) in "Developing Computer-
Based Information Systems."
Shelved as SDC Library #Z699.R78.

Presents a set of system procedures to enable thorough acquaintance with a computer, and mastery of it.

Friedman, L. A.
INSTINCTIVE BEHAVIOR AND ITS COMPUTER
SYNTHESIS (SP-2292/001/00) 55pp.

Published in Behavioral Science, Vol. 12, No. 2,
March 1967 (p. 85-108).

Analyzes theories of instinctive behavior. Reports that in order to validate the theories and permit their development in greater detail, a computer simulation of these theories has been undertaken, using an artificial animal, ADROIT, as the "guinea pig". Discusses progress to date with this simulation.

Friedman, L. A.
THE DESCRIPTION OF A NEW THEORY OF INSTINCTIVE
BEHAVIORAL MECHANISM AND ITS USE IN THE
INTERPRETATION OF NEURAL PHYSIOLOGICAL
EXPERIMENTS (SP-2536) 1p.

Published in American Zoologist, Vol. 6, No. 4,
November 1966 (p. 176, abstract).

Presents a theory of instinctive behavioral mechanisms and its use in the interpretation of neurophysiological experiments.

Friedman, L. A.
FOUNDATIONS OF A THEORY OF NEURAL MECHANISMS
(SP-2702) 9pp.

Printed at SDC, 20 January 1967.
DDC number: AD-648 753

Explains the underlying principles of a model of functional neural mechanisms that produce instinctive behavior.

Gafarian, A. V. and C. J. Ancker
A SIMPLE RENEWAL MODEL OF THROUGHPUT AT AN
OVER-SATURATED SIGNALIZED INTERSECTION
(SP-2122/000/01) 19pp.

Printed at SDC, 28 October 1966.
Published in Transportation Research, Vol. 1, 1967
(p. 57-65).
DDC number: AD-645 434
For annotation, see this title under C. J. Ancker.

Galloway, F. T.
TRANSMISSION OF DIGITAL INFORMATION ON RF CIRCUITS
(SP-2695) 21pp.

Printed at SDC, 8 March 1967.
Describes a system for rapid transmission and
processing of physical identification data among
police officers and central stations. Defines the
information requirements and basic processing tasks
permitting inference of requirements for Digital
Message Entry Devices (DMED) and data processing
techniques.

Ginsburg, S.
BRACKETED CONTEXT-FREE LANGUAGES (SP-2343) 23pp.

Published in Journal of Computer and Systems
Sciences, Vol. 1, No. 1, April 1967 (p. 1-23).
Presented at the RAND Corporation, Santa Monica,
California, 3 February 1966.

Ginsburg, S. and S. Greibach† M. Harrison*
ONE WAY STACK AUTOMATA (SP-2439) 30pp.

Published in the Journal of the ACM, Vol. 14, No. 2,
April 1967 (p. 389-418).

Ginsburg, S. and S. Greibach*
DETERMINISTIC CONTEXT FREE LANGUAGES
(TM-738/014/00) 44pp.

Published in Information & Control, Vol. 9, No. 6,
December 1966 (p. 620-650).
Printed at SDC, 7 May 1965.
DDC number: AD-624 938

A number of results about deterministic languages
(languages accepted by pushdown automata with no
choice of move) are established. In particular,
1. each deterministic language is unambiguous,
2. the complement of each deterministic language is
a deterministic language, 3. numerous operations which
preserve deterministic languages (for example,
intersection with a regular set) are obtained and,
4. several problems are shown to be recursively
unsolvable.

Ginsburg, S. and S. Greibach*, M. A. Harrison*
STACK AUTOMATA AND COMPILING (TM-738/021/00) 63pp.

Published in the Journal of the Association for
Computing Machinery, Vol. 14, No. 1, January 1967
(pp. 172-201).
Printed at SDC, 17 November 1965.
DDC number: AD-628 205

Presents a mathematical model which embodies salient
features of many modern compiling techniques. The
model, called the stack automaton is deterministic in
nature. This deterministic device is generalized to
a nondeterministic device.

Givon, T.*
SOME NOUN-TO-NOUN DERIVATIONAL AFFIXES (SP-2893)
45pp.

Printed at SDC, 20 July 1967.

Discusses sense shifts within the category "Noun"
achieved by morphological affixation and the
discovery of interesting similarities or differences
between affixal and non-affixal sense shifts.

Givon, T.*
TRANSFORMATIONS OF ELLIPSIS, SENSE DEVELOPMENT
AND RULES OF LEXICAL DERIVATION (SP-2896) 60pp.

Printed at SDC, 22 July 1967.

Studies the shifting of the grammatical category of
lexical items without morphological affixation and
compares it with derivational morphology and non-
affixal sense development. States that syntactic
phenomena are the reflexion of semantic structure.

Goer, M. H. and R. P. Barrett, L. F. Carter,
J. W. Singleton, V. F. Shanklas*(ed.),
H. C. Ullman (ed.)
SOCIAL SCIENCES INFORMATION SYSTEMS WORKSHOP
PROCEEDINGS (Warrentown, Va., May 1966)
(Unnumbered) 115pp.

Shelved as SDC Library #48564.

For annotation, see this title under R. P. Barrett.

Grace, G. L.
APPLICATION OF EMPIRICAL METHODS TO COMPUTER-
BASED SYSTEM DESIGN (SP-1952) 37pp.

Published in the Journal of Applied Psychology,
Vol. 50, No. 6, 1966 (p. 442-450).
Printed at SDC, 1 June 1965.
DDC number: AD-617 772

Provides information about the clarity and usefulness
of different printout formats. Reports that three
forms of actual printouts were prepared: Verbal,
Data Block and Eidoform. Concludes that for all three
trials, Verbal and Data Block printouts were about
equally effective, while Eidoform printouts tend to
be less effective and harder to understand.

Grace, G. L. and N. A. Hofland
MULTI-MEDIA TRAINING FOR CROSS-CULTURAL
INTERACTION (SP-2812) 16pp.

Printed at SDC, 17 April 1967.
DDC number: AD-651 574

Discusses the training material packages created by
SDC to develop cross-cultural interaction skills,
and describes the training aids included in these
packages, particularly the self-contained PACKAGE
(Planned Aids for Cross-Cultural Knowledge, Action
and Growth in Effectiveness).

Grant, E. E. and H. Sackman
AN EXPLORATORY INVESTIGATION OF PROGRAMMER
PERFORMANCE UNDER ON-LINE AND OFF-LINE
CONDITIONS (SP-2581) 42pp.

Published in the IEEE Transactions on Human Factors
in Electronics, Vol. HFE-8, No. 1, March 1967.
(p. 33-48).
Printed at SDC, 2 September 1966.
DDC number: AD-640 654

Compares the performance of programmers under controlled conditions for standard tasks. Statistically significant results indicated faster debugging under the on-line mode. Very large individual differences in programmer performance are probably the most important practical findings in this study. Describes methodological problems, presents several hypotheses to account for the results, and makes suggestions for future research.

Greibach, S. A.

A NOTE ON PUSHDOWN STORE AUTOMATA AND REGULAR SYSTEMS (TM-738/016/00) 13pp.

Published in Proceedings of the American Mathematical Society, Vol. 18, No. 2, April 1967 (p. 269-270).

Printed at SDC, 31 August 1965.

DDC number: AD-628 203

Haney, T. P. and M. M. Feuers

THE EMERGENCY OPERATIONS RESEARCH CENTER: DISASTER BY DESIGN (SP-2807) 10pp.

Printed at SDC, 3 April 1967.

DDC number: AD-651 592

For annotation, see this title under M. M. Feuers.

Harris, J. K.

AUTOMATING WELFARE: POTENTIAL AND PROBLEMS (SP-2698) 16pp.

Printed at SDC, 2 March 1967.

Provides welfare administrators with a view of public welfare programs as seen from the standpoint of automation and system analysis. This paper is divided into six parts: 1) The State of Technology, 2) The State of Welfare, 3) Emerging Programs, 4) Emerging Policies, 5) Recognizing the System of Concern, 6) Maintaining the State-of-the-Art in Welfare. States that application of the system sciences in support of technology will increase the quality of service, increase coordination of services, improve response time and enhance control and analysis.

Harris, J. K.

AUTOMATING NEIGHBORHOOD SERVICE - CENTERS: POTENTIAL AND PROBLEMS (SP-2796) 15pp.

Printed at SDC, 10 May 1967.

Describes problems in developing a computer program to expose the needs of clients of Neighborhood Service Centers in relation to actual or needed services, to provide a basis for community-wide planning of social services, and to meet the Bureau of the Budget's requirement that such centers achieve a functional integration of programs.

Herrmann, W. W.

THE SYSTEMS APPROACH IN CRIME PREVENTION AND CONTROL (SP-2751) 19pp.

Printed at SDC, 1 February 1967.

DDC number: AD-648 758

The fundamental functions of a command-and-control system in the context of a generalized view of portions of the police process are discussed in general terms.

Hibbard, T. and J. Ullian

THE INDEPENDENCE OF INHERENT AMBIGUITY FROM COMPLEMENTEDNESS AMONG CONTEXT FREE LANGUAGES (TM-738/010/00) 21pp.

Published in the Journal of the Association for Computing Machinery, Vol. 13, No. 4, October 1966.

Printed at SDC, 10 November 1964.

DDC number: AD-613 290

Presents two theorems to establish the independence of inherent ambiguity from complementedness among the context-free languages.

Hofland, N. A. and G. L. Grace

MULTI-MEDIA TRAINING FOR CROSS-CULTURAL INTERACTION (SP-2812) 16pp.

Printed at SDC, 17 April 1967.

DDC number: AD-651 574

For annotation, see this title under G. L. Grace.

Hormann, A.

DESIGNING A MACHINE PARTNER—PROSPECTS AND PROBLEMS (SP-2169/000/01) 55pp.

Published in Datamation, Vol. 13, No. 2, February 1967 (p. 29-33).

Printed at SDC, 15 October 1965.

DDC number: AD-626 173

Discusses some possibilities for extending man's intellectual and creative power through "partnership" with machines of increased responsiveness and sophistication. States some of the general requirements for a machine partner that are likely to differ depending on problems domains and gives reasons for handling some problems by machine alone, some by man-machine team, and still others by man alone. Suggests the possibility of having "ideation sessions" with a machine partner in problem situations requiring new ideas.

Jaffe, J.

THE SYSTEM DESIGN PHASE (SP-1724/001/00) 44pp.

Published by John Wiley & Sons, New York, chapter 4 (p. 94-137) in "Developing a Computer Based Information System."

Shelved as SDC Library #Z699.R78.

Discusses the major objectives of an information system: "To bring to relevant data in usable form the right user at the right time."

Jarrett, H. F.

TECHNOLOGY AND THE FIRE SERVICE: COMMAND POST IMPLICATIONS (SP-2731) 17pp.

Printed at SDC, 5 April 1967.

Examines the implications of systems technology to the fire service. Includes three examples of how new techniques and approaches — such as system analyses, system training — can help fire personnel improve their operations.

Jones, K. S.

NOTES ON SEMANTIC DISCOURSE STRUCTURE (SP-2714) 29pp.

Printed at SDC, 3 March 1967.

Explores different aspects of a notion of semantic discourse structure and exhibits their connection with a semantic classification.

Kamrany, N. M.

SOVIET ECONOMIC PLANNING: A REVIEW OF MAJOR WORKS IN ECONOMICS (SP-2684) 15pp.

Printed at SDC, 13 February 1967.

Reviews four leading textbooks in Soviet economic planning: Ames, Edward, Soviet Economic Processes; Cambell, Robert W., Soviet Economic Power; Dobbs, Maurice H., Soviet Economic Development Since 1917; Nove, Alec, The Soviet Economy: An Introduction.

Karush, W.

ON SCHEDULING A NETWORK OF ACTIVITIES UNDER RESOURCES RESTRAINTS OVER TIME (SP-2654) 35pp.

Printed at SDC, 15 November 1966.

DDC number: AD-648 749

Discusses a project as a finite set of activities satisfying given precedence relations, with each activity having a known duration time. One question considered relates to enumeration of schedules to find an optimal one. Another question is that of assigning individual workers to activities in a feasible schedule so as to realize "maximal continuity of assignment."

Katter, R. V. and R. L. Weis

MULTIDIMENSIONAL SCALING OF DOCUMENTS AND SURROGATES (SP-2713) 22pp.

Printed at SDC, 23 January 1967.

PB-174 677

Develops a technique for investigating the adequacy of representation systems that would not involve a simulation of the retrieval task but that would be sensitive to changes in representation systems. The method developed is an outgrowth of the technique of multidimensional psychological scaling.

Kellogg, C. H.

CONVERSE--A SYSTEM FOR THE ON-LINE DESCRIPTION AND RETRIEVAL OF STRUCTURED DATA USING NATURAL LANGUAGE (SP-2635) 16pp.

Printed at SDC, 26 May 1967.

DDC number: AD-654 622

Describes CONVERSE a program to develop improved methods for communicating data and requests for data to time-shared data management systems. Introduces notions of "fact" predicate calculus and set theory to clarify retrievable from CONVERSE.

Kibbee, J. M.

THE EXECUTIVE AND THE INFORMATION EXPLOSION: SOME REQUIREMENTS ON THE PUBLIC ADMINISTRATOR (SP-2777) 8pp.

Printed at SDC, 29 March 1967.

States that if the computer is going to help us benefit from more and better information, then there are requirements which fall upon the public administrator. Discusses three requirements: 1--the need for user discipline; 2--the need for additional applied socioeconomic theory; and 3--the need for a better acceptance of governmental research and development, particularly at the state and local government level.

Klein, S.

DYNAMIC SIMULATION OF HISTORICAL CHANGE IN LANGUAGE USING MONTE CARLO TECHNIQUES (SP-1908) 19pp.

Published in Mechanical Translation and Computational Linguistics, Vol. 9, Nos. 3&4, September/December 1966 (p. 67-82).

Printed at SDC, 30 December 1964.

PDC number: AD-610 695

Reports that a system designed to serve as a vehicle for testing hypotheses about language change through time is being programmed in JOVIAL. Anticipates that the simulation system will provide a formal mechanism for checking the adequacy and internal consistency of various explanations about the causes of language change.

Krishnamoorthi, B.* and R. C. Wood

TIME-SHARED COMPUTER OPERATIONS WITH BOTH INTERARRIVAL AND SERVICE TIMES EXPONENTIAL (SP-1848/000/01) 48pp.

Published in the Journal of the Association for Computing Machinery, Vol. 13, No. 3, July 1966 (p. 317-338).

Printed at SDC, 22 September 1965.

DDC number: AD-622 016

Describes the concept of time-shared computer operations and proposes a model of a time-sharing system based on the assumption that both interarrival and service times possess an exponential distribution. Discusses the concept of cycle time and develops two measures of cycle time for a scheduling discipline employing a single queue.

Lind, R. M.

AUTOMATING WELFARE: A COMMENTARY (SP-2699) 12pp.

Printed at SDC, 2 March 1967.

A response to SP-2698: John K. Harris, "Automating Welfare: Problems and Potential."

Discusses the problems of implementing a new system of technology for welfare. States that the difficulties in implementing the change will have to be examined carefully to insure that a real value is at issue. Questions under what circumstances benefits are greater than improvement costs.

Lind, R. M.

AUTOMATION AND THE NEIGHBORHOOD SERVICE CENTER: ARE THEY COMPATIBLE? (SP-2707) 15pp.

Printed at SDC, 12 July 1967.

Discusses the humanizing benefits which can accrue in automating the service center. Concludes that there is still a large period of thinking, experimenting and discussion ahead, even though technically automation could begin tomorrow in the area of the development and administration of the community social data bank.

Long, R. E. and J. F. Burger, R. F. Simmons

AN INTERACTIVE SYSTEM COMPUTING DEPENDENCIES, PHRASE STRUCTURES AND KERNELS (SP-2454/000/01) 27pp.

Printed at SDC, 29 June 1967.

For annotation, see this title under J. F. Burger.

Manus, S. D. and I. Dlugatch

LARGE CAPACITY LASER MEMORY SPACEBORNE COMPUTERS (SP-2665) 10pp.

Printed at SDC, 13 March 1967.

For annotation, see this title under I. Dlugatch

McCabe, L. B. and L. Farr
AN INFORMATION SYSTEM FOR LAW ENFORCEMENT
(SP-2447) 7pp.

Published in the Proceedings-Fall Joint Computer Conference, 1966, San Francisco, California, 8-10 November 1966.

For annotation, see this title under L. Farr.

McCabe, L. B. and C. P. Smith
SYSTEM ANALYSIS IN CRIMINAL JUSTICE INFORMATION SYSTEMS (SP-2749) 13pp.

Printed at SDC, 17 February 1967.

Describes the concept of system analysis and its relative position and critical importance in the system development process. Discusses how such a technique can be applied to the requirements of the criminal justice information system.

McCormack, R. L.
A NEW METHOD FOR FITTING SALARY CURVES
(SP-2730) 16pp.

Printed at SDC, 28 February 1967.
DDC number: AD-648 757

Describes a method for improving salary curves by means of a single restriction empirical evidence suggests that the new method produces salary curves which are always better, as judged by five criteria. However, even the improved salary curves do not always satisfy criteria to an acceptable degree.

Meeker, R. J. and W.H. Moore, G. H. Shure
TRACE: TIME-SHARED ROUTINE FOR ANALYSIS AND EVALUATION (SP-2469/003/00) 5pp.

Published in the Proceedings of the Spring Joint Computer Conference, Vol. 30, April 1967 (p. 525-529).

Meeker, R. J. and W. H. Moore, G. H. Shure
TRACE (TIME-SHARED ROUTINE FOR ANALYSIS CLASSIFICATION AND EVALUATION) (SP-2469/004/00) 5pp.

Published in the Proceedings of the Spring Joint Computer Conference, Vol. 30, April 1967 (p.525-529).

Describes TRACE, a program developed to scan data and define variables among complex sets of data.

Melahn, W. S.
THE STATE OF THE ART (SP-2711) 16pp.

Printed at SDC, 18 January 1967.

Address made at the special one-day meeting on "The Challenge of Technology-Management and Man in the Computer Age," conducted by the National Industrial Conference Board, New York City, 30 November 1966.

Moore, W.H. and R. J. Meeker, G. H. Shure
TRACE: TIME-SHARED ROUTINE FOR ANALYSIS AND EVALUATION (SP-2469/003/00) 5pp.

Published in the Proceedings of the Spring Joint Computer Conference, Vol. 30, April 1967 (p. 525-529).

Moore, W. H. and R. J. Meeker, G. H. Shure
TRACE (TIME-SHARED ROUTINE FOR ANALYSIS CLASSIFICATION AND EVALUATION) (SP-2469/004/00) 5pp.

Published in the Proceedings of the Spring Joint Computer Conference, Vol. 30, April 1967 (p.525-529).

For annotation, see this title under R. J. Meeker.

Nelson, E. A.
THE VOPIR TECHNIQUE FOR THE EVALUATION OF COMPUTER AUGMENTED ADMINISTRATIVE SYSTEMS (SP-2765) 68pp.

Printed at SDC, 17 May 1967.

Describes a technique for measuring the comparative cost-effects procedures. Uses the life insurance industry as an example to illustrate the use of the method.

Newmark, G.
USE OF CHILDREN'S FILMS AND OTHER CHILDREN'S MATERIALS IN TEACHING FOREIGN LANGUAGES TO ADULTS (SP-2643) 4pp.

Published in the Modern Language Journal, Vol. 5, May 1967 (p. 272-275).

Presents a description of classroom experiences for the use of children's materials in adult French classes conducted in 1962. The main focus is on the adult reaction to the use of these materials.

Ng, J.
A REAL-TIME MULTIPLE VEHICLE ON-ORBIT SUPPORT SYSTEM (SP(L)-2861) 24pp.

Printed at SDC, 19 May 1967.

Olney, J. C. and G. C. Revard, F. Ziff*
INTERACTIVE PROCESSOR FOR A MACHINE USABLE VERSION OF WEBSTER'S "SEVENTH NEW COLLEGIATE DICTIONARY" (W7) AND THE NEW MERRIAM WEBSTER POCKET DICTIONARY (MPD) (SP-2728/001/00)

Published in the Finite String, Vol. 4, No. 3, March 1967 (p. 1-2).

Ozbekhan, H.
THE IDEA OF A "LOOK-OUT" INSTITUTION (SP-2017) 21pp.

Printed at SDC, 26 April 1967.

Compares the "political institutions of the future" and "look-out institutions" whose function is to conceive of possible futures, create standards of comparison between possible futures, and define ways to estimate these futures. Outlines a model for the evolution of futures-creative planning work.

Ozbekhan, H.
THE TRIUMPH OF TECHNOLOGY: "CAN" IMPLIES "OUGHT" (SP-2830) 18pp.

Printed at SDC, 6 June 1967.
DDC number: AD-654 623

Discusses "the Quality of Life in the Future" in terms of normative planning. Views technology as triumphant. Discusses what the advent of the technological age has done to—as well as for—mankind.

Parsons, W. W. and T. C. Rowan, I. R. Sternlich
CRIME AND DELINQUENCY—A SUMMARY (SP-2895) 15pp.

Published in: "The Evaluation Meeting on Space General Corporation's Report on the Prevention and Control of

Crime and Delinquency in California" - February 28-March 2, 1966, Williamsburg, Va.
Shelved as an external document under Library #49438.

Outlines Space General Corporation's system analysis and cost/effectiveness study of the California system of criminal justice. The objectives of this study were to critically evaluate the present system and to recommend more effective prevention and control of crime and delinquency in the State.

Perry, D. K. and W. M. Cannon
VOCATIONAL INTEREST OF COMPUTER PROGRAMMERS
(SP-2348) 7pp.

Published in the Journal of Applied Psychology, Vol. 51, No. 1, 1967 (p. 28-34).

For annotation, see this title under W. M. Cannon.

Revard, C. C. and J. C. Olney, P. Ziff*
INTERACTIVE PROCESSOR FOR A MACHINE USABLE
VERSION OF WEBSTER'S "SEVENTH NEW COLLEGIATE
DICTIONARY" (W7) AND THE NEW MERRIAM WEBSTER
POCKET DICTIONARY (MPD) (SP-2728/001/00)

Published in the Finite String, Vol. 4, No. 3, March 1967 (p. 1-2).

Revard, C. C.
QUANTITATIVE ACCOUNT OF SEMANTIC CHANGES AND
ENGLISH WORDS, 1000-1900 AD (SP-2775) 9pp.

Published in the Finite String, Vol. 4, No. 6, June 1967 (p. 1-9).

Revard, C. C.
LEXICON PROJECT (SP-2782) 2pp.

Published in Computers and Humanities, Vol. 1, No. 5, May 1967 (p. 218-219).

Riffe, P. D.
CARTOGRAPHIC SUPPORT FOR SYSTEM SIMULATION (SP-2616)
22pp.

Printed at SDC, 17 May 1967.

States that cartography is concerned with the representation of environmental conditions for a given area. Cartographic support is provided where system simulation projects are spatially oriented. Explains cartographic support of the SDC System Training Program and states that this support includes planning and evaluation materials, computer maps and environmental data provided by software.

Risch, R. H.
THE PROBLEM OF INTEGRATION IN FINITE TERMS (SP-2801)
51pp.

Printed at SDC, 23 March 1967.
DDC number: AD-651 587

Formulates the problem of integration in finite terms. Discusses and solves the problem for those elementary functions of a real or complex variable built up without using irrational algebraic operations.

Risch, R. H.
ON REAL ELEMENTARY FUNCTIONS (SP-2801/001/00)
8pp.

Printed at SDC, 22 May 1967
DDC number: AD-654 594

Uses the same notation and terminology as used in SP-2801 to show how algorithms can be used to integrate real elementary functions.

Rosenquist, B. A. and J. F. Cogswell, C. P. Donahoe,
D. P. Estavan
AN ETHICAL AND MORAL ANALYSIS OF THE DESIGN FOR A
MAN-MACHINE COUNSELING SYSTEM: REACTIONS BY A
UCLA GRADUATE CLASS IN COUNSELING (SP-2874) 68pp.

Printed at SDC, 9 June 1967.

For annotation, see this title under J. F. Cogswell.

Rosove, P. E.
DEVELOPING A COMPUTER-BASED INFORMATION SYSTEM
(SP-1724/000/01) 384pp.

Published by John Wiley & Sons, New York.
Shelved as SDC Library #2699.R78.

Describes the nature of and critical problems associated with the application of computer-based information systems to governmental, business and military institutions.

Rosove, P. E.
COMPUTERS AND THE ACADEMIC MARKET-PLACE (SP-2819)
14pp.

Printed at SDC, 10 April 1967.

Reports that studies of existing recruitment and placement procedures in the field of education find them wasteful and damaging to both individuals and institutions. Outlines computerized personnel referral systems. Concludes that these developments have long-range implications for the rationalization of the process of matching people to jobs in education.

Rowan, T. C.
TECHNOLOGICAL CHANGE AND PUBLIC ADMINISTRATION
(SP-2817) 17pp.

Printed at SDC, 15 August 1967.

Outlines the rapidly accelerating rate of technological change in relation to social goals. Discusses techniques for facilitating change, and examples of two areas of technology, communication and information processing as they impact on public administration.

Rowan, T. C. and W. W. Parsons, I. R. Sternlich
CRIME AND DELINQUENCY - A SUMMARY (SP-2895) 15pp.

Published in: "The Evaluation Meeting on Space General Corporation's Report on the Prevention and Control of Crime and Delinquency in California" - February 28-March 2, 1966, Williamsburg, Va.
Shelved as an external document under Library #48438.

For annotation, see this title under W. W. Parsons.

Rowell, J. T. and G. Cantley, L. F. Carter, L. Schultz,
H. R. Seiden, E. Wallace, R. Watson,
R. E. Wyllys
NATIONAL DOCUMENT-HANDLING SYSTEMS FOR SCIENCE AND
TECHNOLOGY (unnumbered) 344pp.

Book published by John Wiley & Sons, Inc., New York.
Shelved as an SDC Library #2699 .5 .83 .032.

For annotation, see this title under G. Cantley.

Rugg, A. M. and N. F. Schneidewind
SHIPBOARD COMPUTER REQUIREMENTS FOR UNDERSEA MINING
EXPLORATION (SP-2645) 12pp.

Published in the New Thrust Seaward: Transactions of the Third Annual MTS Conference and Exhibit; 5-7 June 1967, San Diego, California (p. 115-126).

Sackman, H.

COMPUTERS, SYSTEM SCIENCE, AND EVOLVING SOCIETY; THE CHALLENGE OF MAN-MACHINE DIGITAL SYSTEMS (SP-137) 638pp.

Published by John Wiley & Sons, New York, 1967.
Shelved as SDC Library #QA76.S12.

Sackman, H.

SYSTEM TESTING AND EVALUATION (SP-1724/004/00) 39pp.

Published by John Wiley & Sons, New York. Chapter 10 (p. 310-348) in "Developing Computer-Based Information Systems."
Shelved as SDC Library #Z699.R78.

Presents an overview of system testing as related to computer-based information systems in real-time application.

Sackman, H. and E. E. Grant

AN EXPLORATORY INVESTIGATION OF PROGRAMMER PERFORMANCE UNDER ON-LINE AND OFF-LINE CONDITIONS (SP-2581) 42pp.

Printed at SDC, 2 September 1966.

Published in the IEEE Transactions on Human Factors in Electronics, Vol. 8, No. 1, March 1967 (p. 33-48).
DDC number: AD-640 654

For annotation, see this title under E. E. Grant.

Sackman, H.

EXPERIMENTAL INVESTIGATION OF USER PERFORMANCE IN TIME-SHARED COMPUTING SYSTEMS: RETROSPECT, PROSPECT, AND THE PUBLIC INTEREST (SP-2846) 102pp.

Printed at SDC, 6 May 1967.
DDC number: AD-654 624

Develops the need for experimental studies of user performance in time-sharing systems. Constructs a conceptual framework for user studies. Concludes with a plea for interdisciplinary applied research to meet the challenge of the public information utility.

Sandin, N. A.

AN INTRODUCTION TO JS AS IMPLEMENTED ON THE IBM S/360 (SP-2824) 10pp.

Printed at SDC, 11 April 1967.
DDC number: AD-651 593

Presents an introduction to and a brief description of the JOVIAL subset compiler (JS), which is implemented on the IBM S/360, Model 65 computer at SDC. Covers signs and symbols of the language processed by JS and features available through control card options.

Schneidewind, N. F. and A. M. Rugg

SHIPBOARD COMPUTER REQUIREMENTS FOR UNDERSEA MINING EXPLORATION (SP-2646) 12pp.

Published in the New Thrust Seaward: Transactions of the Third Annual MTS Conference and Exhibit; 5-7 June 1967 San Diego, California (p. 115-126).

Schultz, L. and G. Cantley, L. F. Carter, J. T. Rowell, H. R. Seiden, F. Wallace, R. Watson, R. E. Wyllys
NATIONAL DOCUMENT-HANDLING SYSTEMS FOR SCIENCE AND TECHNOLOGY (unnumbered) 344pp.

Book published by John Wiley & Sons, Inc., New York.
Shelved as SDC Library #Z699.5.S3.C32.

For annotation, see this title under G. Cantley.

Schwartz, J. I.

ANALYZING TIME-SHARING SYSTEMS (SP-2717) 10pp.

Printed at SDC, 19 May 1967.

Discusses whether controversy in evaluating Time-Sharing is justified. Outlines the problems encountered and establishes techniques for evaluating this kind of system.

Schwartz, J. I. and C. Weissman

THE SDC TIME-SHARING SYSTEM REVISITED (SP-2876) 25pp.

Printed at SDC, 11 August 1967.

Describes the present capabilities of TSS (Time-Sharing System), discusses the critical problems of resource management (and the solution to those problems employed in TSS), and reviews the authors original statements regarding the advantages of time-sharing for such tasks as on-line programming and debugging.

Seiden, H. R. and G. Cantley, L. F. Carter, L. Schultz, J. T. Rowell, F. Wallace, R. Watson, R. E. Wyllys

NATIONAL DOCUMENT-HANDLING SYSTEMS FOR SCIENCE AND TECHNOLOGY (unnumbered) 344pp.

Book published by John Wiley & Sons, Inc., New York.
Shelved as SDC Library #Z699.5.S3.C32.

For annotation, see this title under G. Cantley.

Shaw, C. J.

WHAT A NON-PROGRAMMER SHOULD KNOW ABOUT PROGRAMMING LANGUAGES (SP-2663) 8pp.

Published in the IEEE Computer Group News, Vol. 1, No. 4, January 1967 (p. 1-9).

Shaw, C. J.

NOTATIONAL EXTENSIONS (SP-2733)

Published in SICPLAN Notices, Vol. 2, No. 3, March 1967.

Shaw, C. J.

KEEP I/O AND CONVERSION APART (SP-2734), 1p.

Published in SICPLAN Notices, Vol. 2, No. 3, March 1967 (p. 15).

Shaw, C. J.

TENTATIVE STATEMENT EXECUTION (SP-2735) 1p.

Published in SICPLAN Notices, Vol. 2, No. 7, July 1967 (p. 16).

Shiban, J. R.

A THEORY OF USE-EVALUATION FOR COMPUTER-BASED SYSTEMS (SP-2754) 13pp.

Printed at SDC, 1 March 1967.

Use-Evaluation determines the acceptability of a

computer-based system to its intended audience. The theory outlines both an absolute and a relative determination of usability depending upon the existence of prior models of the system being evaluated.

Shure, G. H. and R. J. Meeker, W. H. Moore
TRACE: TIME-SHARED ROUTINE FOR ANALYSIS AND EVALUATION (SP-2469/003/00) 5pp.

Published in the Proceedings of the Spring Joint Computer Conference, Vol. 30, April 1967 (p.525-529).

Shure, G. H. and R. J. Meeker, W. H. Moore
TRACE (TIME-SHARED ROUTINE FOR ANALYSIS CLASSIFICATION AND EVALUATION (SP-2469/004/00) 5pp.

Published in the Proceedings of the Spring Joint Computer Conference, Vol. 30, April 1967 (p. 525-529).

For annotation, see this title under R. J. Meeker.

Silberman, H. F.
USING COMPUTERS IN EDUCATION: SOME PROBLEMS AND SOLUTIONS (SP-2545/002/00) 10pp.

Published in Educational Leadership, Vol. 24, No. 7, April 1967 (p. 630-639).
Printed at SDC, 18 November 1966.

Considers problems of system development, cost, communication, system integration, and user acceptance.

Silberman, H. F.
APPLICATIONS OF COMPUTERS IN EDUCATION (SP-2909/000/01) 15pp.

Printed at SDC, 29 August 1967.

Views the computer as a subject of instruction, as a tool of instruction, as a research and development tool, and as a management tool, in the context of an operational time-sharing system connecting many schools with a central computer.

Silberman, H. F. and R. C. Atkinson, R. E. Dear, D. P. Estavan
AN OPTIMAL STRATEGY FOR THE PRESENTATION OF PAIRED-ASSOCIATE ITEMS (TM-1935/101/00) 58pp.

Published in Behavioral Science, Vol. 12, No. 1, January 1967 (p.1-13).
Published at SDC, 10 March 1965.
DDC number: AD-615 713

For annotation, see this title under R. C. Atkinson.

Simmons, R. F.
ANSWERING ENGLISH QUESTIONS BY COMPUTER - A SURVEY (SP-1556) 63pp.

Published in Communications of the ACM, Vol. 8, No. 1 January 1965 (p. 53-70). Also published in The Growth of Knowledge, 1967 (p. 264-291).
Printed at SDC, 2 April 1964.
DDC number: AD-437 610

Describes and reviews fourteen question-answering systems. Classifies these systems as data based, text based, and inferential. Concludes that the most difficult and important research questions are concerned with measuring meaning, dealing with ambiguities, translating into formal languages and searching large tree structures.

Simmons, R. F. and J. F. Burger, R. E. Long
AN INTERACTIVE SYSTEM COMPUTING DEPENDENCIES, PHRASE STRUCTURES AND KERNELS (SP-2454/000/01) 29pp.

Printed at SDC, 29 June 1967.

For annotation, see title under J. F. Burger.

Simmons, R. F.
AUTOMATED LANGUAGE PROCESSING (SP-2820)

Published as Chapter 6 in Volume 1 of Information Science and Technology, by C. A. Quadra, published by Interscience Publishers, New York (p. 137-169).

Singleton, J. W. and R. P. Barrett, L. F. Carter, M. H. Goer, V. F. Shanklas**, H. G. Ullman
SOCIAL SCIENCES INFORMATION SYSTEMS WORKSHOP PROCEEDINGS (Warrentown, Va., May 1966) (unnumbered) 115pp.

Shelved as SDC Library #48564.

For annotation, see this title under R. P. Barrett.

Smith, C. P. and L. B. McCabe
SYSTEM ANALYSIS IN CRIMINAL JUSTICE INFORMATION SYSTEMS (SP-2749) 13pp.

Printed at SDC, 17 February 1967.

For annotation, see this title under L. B. McCabe.

Smith, C. P.
KNOWLEDGE FOR SALE: PRIVATE KNOWLEDGE FOR PUBLIC PURPOSES (SP-2781) 10pp.

Printed at SDC, 10 March 1967.

Considers the implications of applying system analysis techniques to government problems, such as the utilization of scientific manpower, or the study of pollution. Comments on the types of organization that can provide the most immediate assistance in the resolution of government problems.

Steel, T. B.
STANDARDS FOR COMPUTERS AND INFORMATION PROCESSING (SP-2485) 50pp.

Published in Advances in Computers, Vol. 8, 1967, New York, Academic Press (p. 103-152).

Forecasts real progress in the next decade toward the creation of systematic standards to replace the prevalent chaotic situation, particularly in the programming languages area.

Steel, T. B.
ARTIFICIAL INTELLIGENCE - RETROSPECT AND PROSPECTS (SP-2672) 3pp.

Published in Computers in Automation, Vol. 16, No. 1, January 1967 (p. 22-24).
Original title: "Artificial Intelligence Research."

Stern, S.
TRAFFIC FLOW DATA ACQUISITION USING MAGNETIC-LOOP VEHICLE DETECTORS (SP-2101) 31pp.

Published in Highway Research Record, No. 154, 1967 (p. 38-52).
Printed at SDC, 19 July 1965.
DDC number: AD-622 000

Discusses techniques developed to extend existing loop-detector capabilities permitting direct measurement of vehicle parameters (measurements were theretofore available only on a statistical basis) and experiments conducted to determine detector/sensor-loop response characteristics. Investigates measurement accuracy, considering the effects of varying vehicle height and of closely following vehicles (tailgating), such as might be expected in heavy traffic.

Sternlich, I. R. and W. W. Parsons, T. C. Rowan
CRIME AND DELINQUENCY - A SUMMARY (SP-2895) 15pp.

Published in "The Evaluation Meeting on Space General Corporation's Report on the Prevention and Control of Crime and Delinquency in California" - February 28-March 2, 1966, Williamsburgh, Va.
Shelved as SDC Library #49438.

For annotation, see this title under W. W. Parsons.

Ullian, J. and T. Hibbard
THE INDEPENDENCE OF INHERENT AMBIGUITY FROM
COMPLEMENTEDNESS AMONG CONTEXT FREE LANGUAGES
(TM-738/010/00) 21pp.

Published in the Journal of the Association for Computing Machinery, Vol. 13, No. 4, October 1966.
Printed at SDC, 10 November 1964.
DDC number: AD-613 290

For annotation, see this title under T. Hibbard.

Ullman, H. C. and R. P. Barrett, L. F. Carter, M. H. Coer,
V. F. Shanklas*, J. W. Singleton
SOCIAL SCIENCE INFORMATION SYSTEMS WORKSHOP
PROCEEDINGS (Warrentown, Va., May 1966)
(Unnumbered) 115pp.

Shelved as SDC Library #48564.

For annotation, see this title under R. P. Barrett.

Vorhaus, A. H. and R. D. Willis
THE TIME-SHARED DATA MANAGEMENT SYSTEM: A NEW
APPROACH TO DATA MANAGEMENT (SP-2747) 11pp.

Printed at SDC, 13 February 1967.

Presents a rationale for the development of the Time-Shared Data Management System (TMS). Describes and discusses the purpose and functions of the system. Surveys its design concepts and gives an example of the use of the system on a personnel data base.

Wallace, E. and G. Cantley, L. F. Carter, J.T. Rowell,
L. Schultz, H. R. Seiden, R. Watson,
R. E. Wyllys
NATIONAL DOCUMENT-HANDLING SYSTEMS FOR SCIENCE
AND TECHNOLOGY (unnumbered) 344pp.

Book published by John Wiley & Sons, Inc., New York.
Shelved as SDC Library #2699.5.S3.C32.

For annotation, see this title under G. Cantley.

Walsh, J. E. and A. McCulloch*
LIFE-TESTING RESULTS BASED ON A FEW HETEROGENEOUS
LOGNORMAL OBSERVATIONS (SP-2038) 15pp.

Published in the Journal of the American Statistical Association, March 1967.
Printed at SDC, 19 April 1965.

States that the problem is: First, to establish a

(hypothetical) set of "typical" life-testing conditions for given items; Second, to determine a length of time such that the probability of an item surviving this long under the "typical" conditions is at least a specified amount. Concludes that this approach can have strong advantages when there are only two or three observations.

Walsh, J. E. and A. McCulloch*
LIFE-TESTING RESULTS BASED ON A FEW HETEROGENEOUS
LOGNORMAL OBSERVATIONS (SP-2038/001/00) 3pp.

Published in the Journal of the American Statistical Association, March 1967 (p. 45-47).

States that for some items to be independently life-tested under typical conditions a time duration must be determined such that the probability is at least a stated amount that an item will survive this long under typical conditions.

Walsh, J. E.
PROBABILITY OF LOCATING A SUBMARINE WITH A STATED
DISTANCE ON THE BASIS OF TWO DIRECTIONAL SENSORS
(SP-2757) 13pp.

Printed at SDC, 22 February 1967.

The specific problem is to approximately determine the probability that the true submarine position is within a stated distance (on the ocean surface) of the estimated position. Identifies the parameters involved and, in terms of these parameters, develops an approximate expression for the probability value.

Walsh, J. E.
PROBABILITY OF LOCATING A SUBMARINE WITHIN A STATED
DISTANCE BY USE OF A RANGE-BEARING SENSOR (SP-2831)
9pp.

Printed at SDC, 14 April 1967.

An approximate expression is developed for the value of the probability that the true location of a submarine is within a stated distance of the estimated location. Estimation is based on the observed submarine range, and its observed horizontal bearing furnished by a range-bearing sensor that is at a determined location in the ocean.

Walsh, J. E.
CONFIDENCE INTERVALS FOR DIFFERENCES OF FREQUENCIES
IN MATCHED SAMPLES (SP-2868) 4pp.

Printed at SDC, 5 June 1967.

Informal handout.
Presented at the Western Regional Meeting, Institute of Mathematical Statistics, Missoula, Montana,
15-17 June 1967.

Watson, R. and G. Cantley, L. F. Carter, J. T. Rowell,
L. Schultz, H. R. Seiden, E. Wallace,
R. E. Wyllys
NATIONAL DOCUMENT-HANDLING SYSTEMS FOR SCIENCE AND
TECHNOLOGY (unnumbered) 344pp.

Book published by John Wiley & Sons, Inc., New York.
Shelved as SDC Library #699.5.S3.C32.

For annotation, see this title under G. Cantley.

Weinwurm, G. F.ON THE ECONOMIC ANALYSIS OF COMPUTER PROGRAMMING
(SP-2772) 38pp.

Printed at SDC, August 1967.

Presents empirical evidence that suggest that computer programming can be analyzed as an economic process. Demonstrates some preliminary relationships between the information processing power of computers, the languages in which programs are coded, and the varieties of application, as they affect the relative resource cost of program development.

Weis, R. I. and R. V. KatterMULTIDIMENSIONAL SCALING OF DOCUMENTS AND
SURROGATES (SP-2713) 22pp.Printed at SDC, 23 January 1967.
PR-174 677

For annotation, see this title under R. V. Katter.

Weissman, C.

LISP 1.5 PRIMER (SP-2721) 226pp.

Published by Dickenson Publishing Company, Inc.,
Belmont, California.
Shelved as an SDC book no. QA76.5.W49.

Introduces the programming language LISP and presents a systematic exposition of symbolic computation, and serves as a self-tutor for those wishing to acquire a practical facility with LISP 1.5 programming language.

Weissman, C. and J. I. Schwartz

THE SDC TIME-SHARING SYSTEM REVISITED (SP-2876) 25pp.

Printed at SDC, 11 August 1967.

For annotation, see this title under J. I. Schwartz.

Wills, R. D. and A. H. VorhausTHE TIME-SHARED DATA MANAGEMENT SYSTEM: A NEW
APPROACH TO DATA MANAGEMENT (SP-2747) 11pp.

Printed at SDC, 13 February 1967.

For annotation, see this title under A. H. Vorhaus.

Wood, R. C. and B. Krishnamoorthi*TIME-SHARED COMPUTER OPERATIONS WITH BOTH
INTERARRIVAL AND SERVICE TIMES EXPONENTIAL
(SP-1848/000/01) 48pp.Published in the Journal of the Association for Computing
Machinery, Vol. 13, No. 3, July 1966 (p. 317-338).

Printed at SDC, 22 September 1965.

SDC number: AD-622 016

For annotation, see this title under B. Krishnamoorthi.

Wood, R. C. and E. G. CoffmanINTERARRIVAL STATISTICS FOR TIME-SHARING SYSTEM
(SP-2161) 13pp.Published in the Communications of the ACM, Vol. 9, No. 7,
July 1966 (p. 500-503).

Printed at SDC, 3 August 1965.

For annotation, see this title under E. G. Coffman.

Wyllys, R. E. and G. Cantley, L. F. Carter,J. T. Howell, L. Schultz, H. E. Seiden,
E. Wallace, R. WatsonNATIONAL DOCUMENT-HANDLING SYSTEMS FOR SCIENCE
AND TECHNOLOGY (unnumbered) 344pp.Book published by Joyn Wiley & Sons, Inc., New York.
Shelved as an SDC book number Z690.5.S3.C32.

For annotation, see this title under G. Cantley.

Wilks, Y.SEMANTIC CONSISTENCY IN TEXT --AN EXPERIMENT AND
SOME SUGGESTIONS (SP-2758) 38pp.

Printed at SDC, 20 February 1967.

Attacks the problem of the resolution of word-sense ambiguity in texts by a method that can be extended so as to allow a program to construct a word-sense that was not present in the dictionary at the beginning. The resolution proceeds by means of rules of sequence operating on coded message forms or templates.

Willmorth, N. E.ON THE CONSTRUCTION OF ORTHOGONALIZED SQUARES BY
FINITE FIELDS (SP-2897) 15pp.

Printed at SDC, 26 July 1967.

States that this paper is limited to the finite field approach to the generation of orthogonalized squares. Discusses the general cases of orthogonalized squares which cover all positive integers.

Wills, R. D.SUGGESTIONS FOR MAKING ITSC/DBS TECHNICAL
PRESENTATIONS (SP-2878) 2pp.

Printed at SDC, 20 June 1967.

Informal handout.

Ziff, P.* and J. C. Olney, C. C. RevardINTERACTIVE PROCESSOR FOR A MACHINE USABLE
VERSION OF WEBSTER'S "SEVENTH NEW COLLEGIATE
DICTIONARY" (b7) AND THE NEW MERRIAM WEBSTER
POCKET DICTIONARY (MPD) (SP-2728/001/00)Published in the Finite String, Vol. 4, No. 3,
March 1967 (p.1-2).Ziff, P.* and J. C. Olney, C. C. RevardTOWARD THE DEVELOPMENT OF COMPUTATIONAL AIDS FOR
OBTAINING A FORMAL SEMANTIC DESCRIPTION OF
ENGLISH (SP-2766/001/00)

Printed at SDC, August 1967.

Informal handout.

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(SP-2692) Report of the Program Committee for the 1966 ADI Convention, by C. A. Quadra.

AN/FSC-32 see COMPUTERS - AN/FSC-32

ARTIFICIAL INTELLIGENCE

(SP-2292/001/00) Instinctive Behavior and Its Computer Synthesis, by L. A. Friedman.

(SP-2672) Artificial Intelligence—Retrospect and Prospects, by T. H. Steel.

AUTOMATED TEACHING

(SP-2473) Computers in Research and Development on Automated Instruction, by J. E. Coulson.

(SP-2644) Use of Children's Films and Other Children's Materials in Teaching Foreign Languages to Adults, by G. Newmark.

(SP-2722) Personalizing Instruction in Mass Education by Innovations in the Teaching-Learning Process, by L. F. Carter.

(SP-2909/000/01) Applications of Computers in Education, by H. P. Silberman.

BEHAVIORISM (PSYCHOLOGY)

(SP-2292/001/00) Instinctive Behavior and Its Computer Synthesis, by L. A. Friedman.

(SP-2536) The Description of a New Theory of Instinctive Behavioral Mechanism and Its Use in the Interpretation of Neural Physiological Experiments, by L. A. Friedman.

(SP-2830) The Triumph of Technology: "Can" Implies "Ought", by H. Ozbekhan.

BUSINESS MANAGEMENT

(SP-2765) The VOPIR Technique for the Evaluation of Computer Augmented Administrative Systems, by E. A. Nelson.

BUSINESS MANAGEMENT - SIMULATION

(SP-2654) On Scheduling a Network of Activities Under Resource Restraints Over Time, by W. Karush.

CARTOGRAPHY

(SP-2616) Cartographic Support for System Simulation, by P. D. Riffe.

CHESS

(SP-2752) Empire: An Automatic Kriegsspiel Referee for a Time-Shared Computer, by J. F. Burger.

CIVIL DEFENSE - EOC

(SP-2807) The Emergency Operations Research Center: Disaster by Design, by M. M. Feuers and T. P. Haney.

CIVIL DEFENSE - TRAINING

(SP-2807) The Emergency Operations Research Center: Disaster by Design, by M. M. Feuers and T. P. Haney.

COMMUNICATIONS - SPACE

(SP-2746) Computer-Aided Design As Applied to Space Systems, by I. Dlugatch.

COMPUTER LANGUAGES

(SP-1556) Answering English Questions by Computer - A Survey, by R. F. Simmons.

(SP-2343) Bracketed Context-Free Languages, by S. Ginsburg.

(SP-2439) One Way Stack Automata, by S. Ginsburg, S. Greibach and M. Harrison.

(SP-2663) What a Non-Programmer Should Know About Programming Languages, by C. J. Shaw.

(SP-2721) LISP 1.5 Primer, by C. Weissman.

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(SP-2735) Tentative Statement Execution, by C. J. Shaw.

(TM-738/010/00) The Independence of Inherent Ambiguity From Complementeness Among Context Free Languages, by J. Ullian and T. Hibbard.

(TM-738/014/00) Deterministic Context Free Languages, by S. Ginsburg and S. Greibach.

(TM-738/016/00) A Note on Pushdown Store Automata and Regular Systems, by S. A. Greibach.

(TM-738/021/00) Stack Automata and Compiling, by S. Ginsburg, S. Greibach and M. Harrison.

COMPUTER PROGRAMMERS

(SP-2348) Vocational Interest of Computer Programmers, by W. M. Cannon and D. K. Perry.

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(SP-1724/000/01) Developing a Computer-Based Information System, by P. E. Roscoe.

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(SP-2469/004/00) TRACE (Time-Shared Routine for Analysis Classification and Evaluation), by R. J. Meeker, W. H. Moore and G. H. Shure.

(SP-2635) Converse—A System for the On-Line Description and Retrieval of Structured Data Using Natural Language, by G. H. Kellogg.

(SP-2717) Analyzing Time-Sharing Systems, by J. I. Schwartz.

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(SP-2846) Experimental Investigation of User Performance in Time-Shared Computing System; Retrospect, Prospect, and the Public Interest, by H. Sackman.

(SP-2876) The SDC Time-Sharing System Revisited, by J. I. Schwartz and C. Weissman.

COMPUTERS - TIME-SHARING - TDMS

(SP-2634) Compose/Produce: A User-Oriented Report Generator Capability Within the SDC Time-Shared Data Management System, by P. R. Bartram and W. D. Williams.

(SP-2750) Treating Hierarchical Data Structures in the SDC Time-Shared Data Management (TDMS), R. E. Fleier.

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