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Autoinstructional Aids; Autoinstructional Methods; *Bibliographies; *Computer Assisted Instruction; Computer Oriented Programs; *Educational Technology; Instructional Media; *Instructional Technology; Programed Instruction

Information from many different sources related to the use of computers in instruction, particularly computer assisted instruction (CAI), is provided in this bibliography: journal articles, books, articles from edited books, and technical reports or memos. Each of the 835 entries contains title, year and place of publication, often the number of pages, and the author's name. Additional information considered pertinent for the location of a given source is also included where appropriate, and those articles or papers which were referenced in abstracted form are identified. Included in each entry are the appropriate keywords which serve to index its contents. An index of entries by descriptors and an author index are also included. (SH)
COMPUTER-ASSISTED INSTRUCTION

A
SELECTED
BIBLIOGRAPHY

O. Dennis Barnes
Deborah B. Schrieber

March 1972

ASSOCIATION FOR EDUCATIONAL COMMUNICATIONS & TECHNOLOGY
1201 Sixteenth Street, N.W.
Washington, D.C. 20036
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INTRODUCTION

AECT would like to thank O. Dennis Barnes, National Technical Institute for the Deaf, Rochester Institute of Technology, and the people who worked with him on this comprehensive bibliography for the opportunity to publish it. We feel that with the abundance of literature on the subject of computer-assisted instruction, there needs to be an easier way of looking at it all. This bibliography will help -- breaking out many interest areas in the CAI field and making the task of locating pertinent information simpler.

This bibliography is by no means complete, but the job it does is one that is needed. It provides a starting point on a study of CAI and can provide guidelines for future referencing.

AECT again thanks all the people who made this job possible.

Howard Hitchens Jr.
Executive Director
PREFACE

A bibliography is not an unusual commodity in the academic world. There are those which are in constant use and those which only gather dust. There are those which have been carefully produced and those which have been "thrown" together.

The authors of this bibliography do not know how often it will be used. We can only hope that those interested in locating information sources related to the use of the computer in instruction, CAI, will find it of frequent help and value.

We do know how this bibliography was produced. Much systematic effort was required. First, each document was obtained. Then, each was read in its entirety, and, thus, is keyworded by content and not necessarily by title. As a result, we have used 663 keywords to categorize and organize the 835 citations in this bibliography. Although this is an extensive bibliography, it is by no means exhaustive. Other bibliographic sources include ERIC and The Clearinghouse for Federal Scientific and Technical Documents, which are not knowingly referenced here.

An effort such as this owes its success to many. We wish to again thank the many individuals who contributed documents to our effort. Their cooperation is greatly appreciated. Our thanks to Marie Vincent for her effort in developing the program for the keyword listing. Our thanks also to William Sullivan and Mary Hite for their cooperation in getting the bibliography typed. Finally, our special thanks to Dee Mergler, who found herself responsible for the agonizing and time-consuming task of typing this monstrous document.

O. Dennis Barnes
Deborah B. Schrieber
March 1972
Bibliographic Format Explanation

There are many different types of information sources cited in this bibliography. This was done so that the user would become acquainted with the wide variety of literature sources available on computer-assisted instruction.

Every effort has been made to provide the user of this bibliography with sufficient information within each citation to allow for reasonably easy location of each source. However, since there are many different bibliographic formats in use, the formats used in this bibliography are explained below in order to further clarify the type of source referred to in a particular citation.

Journal article

Author(s). Article title. Journal title, year of publication, volume number (issue number), pages of article.

When a volume number or issue number is not known, the month of publication is given in parentheses following the year.

Book

Author(s). Title. Place of publication: Publisher, year of publication.

Edited book

Author(s). (Ed[s].) Title. Place of publication: Publisher, year of publication.

Article in edited book

Author(s) of article. Article title. In Author(s) (Ed[s].), Title. Place of publication: Publisher, year of publication. Pages of article.

Technical report or memo

Author(s). Title. Document classification and number, Issuing agency, place of issue, year of issue.

A specific article in a technical report or memo is cited similarly to the format used for an article in an edited book.
Paper

Author(s). Paper title. Organizational meeting at which it was presented, place of presentation, year.

If the article or paper cited was in an abstracted form, the usual citation format will be followed by (Abstract).

Other forms of citation used will generally follow one of the above formats. Additional information considered pertinent for the location of a given source will be found inserted into an appropriate place in the standard citation format for that type of source.

programmed instruction; teaching machine; teacher; sequence; future


simulation; games; disadvantaged; learning


individualization; effectiveness; cost


simulation; medicine; anesthesiology


arithmetic; achievement; New York City; evaluation; attitude; elementary grades

social science; inquiry; games; simulation; attitude; training; information retrieval system; teacher education

Scanland, F. W. An Investigation of the Relative Effectiveness of Two Methods of Instruction, Including Computer-assisted Instruction, as Techniques for Changing the Parental Attitudes of Negro Adults. Technical Report 13, CAI Center, Florida State University, Tallahassee, 1970.

Negro; adults; attitude; achievement; lecture; rural; education; effectiveness


curriculum development; adult education; systems model


math; adult education; diagnostic tool; placement

system design; storage; language; operating system


German; achievement; evaluation


hardware; terminal; system design; instruction; language


math; high school; deaf; language arts; drill-and-practice; strand; tutorial; Stanford University; elementary grades


foreign language; German; curriculum development; audio; strategy—instructional
0015  Alcorn, B. K.  *Time-sharing in Higher Education*.  

*time-sharing; higher education*


*PLATO; cost; drill-and-practice; tutorial; inquiry; evaluation; utilization; hardware; software; strategy-instructional; applications; future; terminal*


*business education; high school*


*Stanford University; reading; language; disadvantaged; achievement; learning; elementary grades; curriculum; optimization*


*reading; math; Stanford University; levels of CAI; drill-and-practice; dialogue system; tutorial; branching; hardware; games; audio; macro; Coursewriter II; learning; elementary grades; IBM; optimization*

Stanford University; tutorial; drill-and-practice; effectiveness; learning; individualization; optimization


Stanford University; reading; language; disadvantaged; achievement; learning; curriculum; elementary grades; optimization


Stanford University; reading; audio; elementary grades; strategy--instructional; curriculum


learning theory; instruction theory; learning model; cost; optimization


history--CAI; programmed instruction; Stanford University; reading; math; drill-and-practice; tutorial; simulation; games; hardware; software; cost; learning; individualization; obstacles; optimization

applications; hardware; language; cost; overview


Stanford University; hardware; reading; math; drill-and-practice; tutorial; cost; obstacles; elementary grades

Audio/visual Unit Integrates Slides, Tapes into Education System. *IBM News*, 1970, 7(8), 1. (San Jose issue)

IBM/360; audiovisual


PLATO; language; TUTOR; cost; effectiveness; simulation; drill; individualization; advantages; terminal; author; learner; debugging; student records


evaluation; problem solving; industry


CLASS; PLATO II; research

programmed instruction


bibliography


learner-controlled instruction; instructor-controlled instruction; programmed instruction; IBM/1500; performance; literature review; arithmetic; elementary grades


guidance; counseling; cost


clarinet; drill; IBM/1500; Coursewriter; audio; language laboratory; behavioral objectives; strategy--instructional; branching; evaluation; curriculum development; music
simulation; games; cost

individualization

deaf; math; drill-and-practice; elementary grades; attitude

education

programming; operations research approach; optimization; learning

hardware; cost; software; instructor-controlled instruction; tutorial; demonstration; curriculum--programs

natural language; tutorial; decision model; linguistic model


natural language; tutorial; decision model; linguistic model


flowchart; natural language; linguistic model; tutorial


curriculum; vocational education; teacher


education; innovation


IBM/1130; APL/1130

hardware; software; cost; plasma display panel


management system--instructional; cost


hardware; management system--instructional


hardware; cost; plasma display panel


problem solving; ability; math; junior high

PLATO; effectiveness; high school; math; hardware; terminal


math; presentation mode


individualization; achievement; motivation; drill-and-practice; math; tutorial; response


programmed instruction; attitude; psychology; college


terminal; plasma display panel


simulated laboratory; transfer; training; typewriter; laboratory; management system--instructional; decision rules; nursing education; inquiry, PLATO; laboratory; simulation; strategy--instructional; task analysis; sequence; college; science; program-controlled instruction; ability; learner-controlled instruction; anxiety; sex; performance; math; feedback

anxiety; response; reading; achievement; heart disease; familiarity


anxiety; programming; performance; evaluation; strategy—instructional


ability; time; achievement; latency; reading; science


APL; instruction; computer science; data processing; accounting; student records; computer systems; education

evaluation; reinforcement; programmed instruction; pre-school


Dial-A-Drill; arithmetic; drill-and-practice; achievement; attitude; elementary grades; disadvantaged


testing; decision rules; management--instructional; individualization; curriculum; outcomes


physics; college; mechanics


physics; graphic; terminal; tutorial; simulation; calculation; installations


hardware; terminal; CRT


teacher; diagnostic tool; reading; management system--information; individualization; elementary grades


statistics; cost; graduate school; achievement; instruction


reading; computation; consumer education; curriculum development; adult education; underprivileged; adults


individualization; learning; pronunciation; Stanford University; Russian; college

PLATO; strategy-- instructional; time; achievement; student records; future; obstacles

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GROW; individualization; objectives; tutorial; teacher; author; reading; junior high


programmed instruction; science; math; response; branching; sequence


response; feedback; step size; individualization


Sumerian Game; Sierra Leone Development Project; Free Enterprise Game; Consumer Game; time; individualization; games; economics; elementary grades

PLATO; terminal; curriculum; programming--course; collegu; achievement; strategy--instructional

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limitations; information sources; hardware; projects; research; overview; research & development; literature review


literature review; criticism


calculation; stimulation; simulation; individualization; teacher education; curriculum; education; curriculum development; innovation


strategy--instructional; inquiry; science; art; math; music; affective domain; concept teaching; curriculum; elementary grades; teacher


t.e-sharing; teletypewriter; achievement; computation; problem solving; curriculum development; BASIC; learning by discovery; algebra; high school; physics

FORTRAN; self-instruction; programming; problem solving; INQUIR: math


interaction; multi-media; teacher; humanization; hardware


hardware; Kansas City; strategy--instructional; ability; effectiveness; attitude; teacher; cost; curriculum--programs; individualization


time-sharing; installations; language; terminal

Miller, R. T. Computer-assisted Instruction. IBM Research Reports, 1966, 2(1). Thomas J. Watson Research Center, Yorktown Heights, N. Y.

learning theory; teaching machine; branching; programmed instruction; response; student records; Coursewriter; author; IBM; achievement; programming; testing


computer-managed instruction; cost; multi-media; obstacles; individualization; learning; engineering--behavioral


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programmed instruction; college; problem generation; teacher; individualization; calculation; cost; strategy--instructional; learner


computer-mediated instruction; simulation; branching; student records; math; high school; college; individualization


bibliography; applications; individualization


effectiveness; elementary grades; high school; college; teaching machine; literature review


instructional technology; administration; testing; instruction; teaching machine; individualization
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Instructional technology; media; learner-controlled instruction; strategy— instructional; individualization; instructor-controlled instruction


Individualization; drill-and-practice; talking typewriter; reading; tutorial; software; cost; obstacles


Teletypewriter; algebra; physics; high school; computation; time-sharing; program; learning by discovery


Drill-and-practice; individualization; curriculum; student records; elementary grades; hardware

Another Tool for Educators from RCA. *RCA Instructional Systems, Palo Alto, Calif.*

Ability; terminal; drill-and-practice; teacher; student records; RCA Instructional 70 System; RCA Instructional 71 System; individualization

Curriculum; individualization; drill-and-practice; concept blocks; difficulty level; arithmetic; cost


Educational technology; teacher; cost


Systems approach; administrative use; research; instruction; teacher; tutorial; cost


Individualization; student records; light pen; terminal; time-sharing; drill-and-practice; tutorial; dialogue system; natural language; teacher; hardware; curriculum


Learning by discovery; simulation; games; learner-controlled instruction; programming


Arithmetic; spelling; reading; New York City; RCA; time-sharing; branching; stimulus; cost; curriculum development; reliability; individualization; software; IBM; tutorial; drill-and-practice; dialogue system; teacher; elementary grades

New York City; drill


APL; language; implementation


APL; time-sharing; simulation; plotting; learning by discovery; college; attitude; genetics


APL; transistor circuit design; calculation; college; debugging; applications


math; tutorial; APL; problem solving; Course-writer; simulation; drill-and-practice


APL; language
APL; simulation; college; physics; laboratory; discovery

APL; implementation; future; limitations; language

author; language; computation; APL

author-controlled instruction; tutorial; language; applications; instruction

language; APL

industry; research & development; cost; personnel; software; curriculum

individualization; student records; IBM/1500; language; Coursewriter II; terminal; image projector; audio; input/output; user; proctor; author; learner; hardware


anxiety; individualization; learning; programmed instruction; CAI systems; science; college; math; feedback; stress; physics; evaluation; junior high; attitude; difficulty level


research & development; criticism


programming; objectives; strategy--instructional


tutorial; dialogue system; subject cataloguing; curriculum development; answer-scanning

pedagogy; teacher


social work; sociology; psychology; child development


teacher; behavior


administration; program; drill-and-practice; RCA Instructional 70 system; cost; effectiveness


total time hypothesis; exposure time; exposures; pediatrics; medicine


branching; evaluation; time; aptitude; logic; high school; curriculum
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teacher; diagnostic tool; reading; elementary grades; management system--information; individualization

teaching machine; geometry; reading; comprehension; branching; time; anxiety; repetition; individualization; achievement; programmed instruction; strategy--instructional; self-instruction; underachievement; overachievement

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objectives; personnel; training; curriculum; learner; Florida State University


curriculum; future; research; interaction; installations; graduate school; learner-controlled instruction


PLATO; cost
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<td>0155</td>
<td>A Study of Computer Assisted Multi-media Instruction Augmented by Recitation Sessions</td>
<td>Majer, K. S.</td>
<td>Technical Report 1, CAI Center, Florida State University, Tallahassee, 1969.</td>
<td></td>
<td>multi-media; physics; college; anxiety; personality; ability; attitude; achievement; individualization</td>
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<td>0157</td>
<td>A Study of Computer-assisted, Multi-media Instruction Augmented by Recitation Sessions</td>
<td>Majer, K.</td>
<td>Paper presented at annual meeting of American Educational Research Association, Los Angeles, 1969.</td>
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<td>physics; college; multi-media; achievement; ability; anxiety; personality; attitude</td>
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vector analysis; strategy--instructional; math; ability; Colorado State University; computer-managed learning


problem solving; concept tree; adaptive system; curriculum


radar operators; training; simulation; software; achievement


programming; language; user; computation; problem solving


personnel; Kansas City; teacher; implementation; language; Coursewriter; IBM/1500; individualization; APL; training; curriculum; tutorial; debugging; science; junior high; math; personnel

behavior; achievement; math; reading; elementary grades


time-sharing; language; math; BASIC


mass media; programmed instruction; teaching machine; bibliography; audiovisual instruction; literature review


statistics; problem solving


teaching machine; lecture; response; programming; probability; college; programmed instruction


reading; ability; criticism

reading; arithmetic; touch sensitive device; Westinghouse


individualization; cost; systems approach


talking typewriter; programmed instruction; spelling; cost; financing; curriculum


automated teaching; teaching machine; response; CLASS; SDC


education; disadvantaged; hardware


automated teaching; PLATO; individualization; tutorial; inquiry; REPLAB; simulation; curriculum
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APL; drill-and-practice; calculation; applications


inquiry; PLATO; electronic blackboard; tutorial; REPLAB; science; student records; programming; training; strategy--instructional


discovery; PLATO; heart rate; research


audiovisual; bibliography; instruction


automated teaching; teaching machine; drill-and-practice; strategy--instructional; PLATO; simulation; typewriter; branching; research tool; auto-instruction; CLASS; individualization

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readability; programming; performance; response; presentation; branching; management--information; debugging; strategy--instructional; curriculum


language; computation; strategy--instructional; natural language; problem solving


systems analysis; cost; individualization


politics; cost; teacher; hardware; implementation; curriculum


programmed instruction; talking typewriter; reading; pre-school; television; teacher; software; individualization


teaching machine; branching; media; audio-visual; architectural considerations

industry; software; programmed instruction; feedback; discovery; games; simulation; teacher; obstacles; individualization


tutorial; drill-and-practice; logic; algebra; gifted learner; Russian; college; math; reading; high school; programming; Stanford University; elementary grades


PLANIT; author; language; software; natural language; physiology--eye; TUTOR; SDC; individualization


noise level; personnel; instruction; criticism


IBM/1500; IBM/1510; audio; image projector; typewriter; input/output; light pen; terminal

author; proctor; user; IBM/1500; terminal; learner

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bibliography


drill-and-practice; problem generation; algebra; linear equations; quadratic equations

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systems approach; learner


mentally disturbed children; games; case study; speech


U. S. Office of Education; U. S. O. E.; federal government; funding

learning; hardware; tutorial; science; personnel; Florida State University


cost; effectiveness; individualization


German; ability; language arts


education; innovation


piano; music; decision rules; elementary grades


motivation; performance; achievement; arithmetic; attitude; individualization; elementary grades; difficulty level


Stanford University; math; reading; elementary grades

college; chemistry; strategy--instructional


IMPACT; branching; response; hardware; software; confidence; decision rules; COBOL; learning; instruction; curriculum; strategy--instructional; behavior

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strategy--instructional; achievement; task analysis; ability; xenograde; science; concept learning; sequence; learner-controlled instruction; cognitive ability; anxiety; individualization; design--instructional


cognitive ability; aptitude; design--instructional; science; college; ability; instructional designer; learning; strategy--instructional; individualization

tutorial; CAN-4; debugging; input/output; branching; computation; PDP-9; language


programmed instruction; problem generation; math; college; diagnostic tool; testing; drill-and-practice; CAN-4; author-controlled instruction; programming; learner-controlled instruction; program-controlled instruction


social science; simulation


systems approach; system analysis; instruction


programmed instruction; teaching machine; decision rules; CLASS; PLATO; SOCRATES

teaching machine; sequence; stimulus; response; knowledge of results; evaluation; educational technology; programmed instruction; objectives—learning; individualization


programmed instruction; sequence; junior high; science; achievement; retention; branching; programming


automated instruction; sequence; prompting; confirmation; stimulus; response; vocabulary; retention; overlearning


programmed instruction; response

language arts; math; handicapped children; history--CAI; hardware; software; literature review; project; drill-and-practice; learning; deaf; Washington summer project; attitude; individualization


programmed instruction; advantages; effectiveness; teacher education; inservice education; cost


systems approach; problem solving; curriculum; training; international; installation; programmer


math; English; adults; utilization; Dial-A-Drill; cost; acceptance; New York City; high school; achievement; attitude; elementary grades


teacher; author; Waterford, Mich.; math; INDICOM; training; elementary grades; workshop

curriculum development; THEMIS; strategy--learner; simulation; games; Navy; overview; projects; personnel; training; hardware; literature review; Florida State University


physics; college; calculation


high school; LEARN; APL; programming; algebra; math; word game; typing; drill; Latin; trigonometry; logarithms


drill-and-practice; branching; language arts; reading; junior high; English; curriculum; objectives; elementary grades; individualization


English; achievement; intelligence; socioeconomic status; evaluation; data analysis; Waterford, Mich.; elementary grades
drill-and-practice; math; cost; elementary grades

natural language; English; hardware; obstacles

anatomy; tutorial; graphics; programming; medicine; natural language

time-sharing; graphics; problem solving; cost; on-line

chemistry; problem solving; organic chemistry

federal government


DOVACK; strategy--instructional; reading; curriculum; individualization.

electronics; Army; training; effectiveness; efficiency; IBM/1500; strategy--instructional; achievement; cost


bibliography


programming; language; programmer mode


simulation; language; bibliography


education; teacher; hardware; learner


physics; mechanics; curriculum--programs

tutorial; vectors; ELIZA; limitations; cost; physics; relativity; attitude


physics; Rand tablet; principle of least action


student records; achievement; personnel; language; hardware; physics; attitude; curriculum


math


hardware; language; curriculum development; research & development; cost


hardware; definition; software; language

individualization; branching; feedback; evaluation

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exceptional child; mobile CAI; teacher education; inservice education


failure; cost; industry


physics; problem solving; tutorial; drill


literature review; overview; computer-managed instruction; time-sharing; vocational guidance; applications


German; college; language laboratory; achievement; attitude
cost; hardware; input/output; time-sharing; teleprocessing

college; higher education

cost; simulation; banking; prisoners as students; language arts; Russian; English; railroad; language; typing; junior high; funding; disadvantaged; PLANIT; data processing; training; law; airlines; medicine

mentally retarded; reading; math; games; learner-controlled instruction

Waterford, Mich.; teacher; INDICOM; personnel; project; hardware
programmed instruction; anxiety; feedback; retention

higher education; Dartmouth

individualization; system design

automation; teacher; objectives—educational

educational technology; hardware; language; PLANIT; software; teacher; author

exceptional child; achievement; evaluation; CARE program

teacher education; inservice education; exceptional child; mobile CAI; tutorial; inquiry; strategy—instructional

CBI-70 System. Westinghouse Learning Corp., New York, N. Y.

Westinghouse CBI-70; learning desk


hardware; TRW Mentor


Philadelphia; high school; curriculum development; language


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programmed instruction; student records; drill-and-practice; Stanford University; English; reading; glossary; elementary grades

drill-and-practice

0291 Computer-assisted Instruction: An Introduction to Interpretive Coursewriter Coding. Computer Facility, University of California, Irvine, June, 1968.
author; branching; curriculum development; language; Coursewriter

funding; New York City; dial-access systems

funding; genetics; college; American history; social sciences; IBM 1410/1440; University of California, Irvine
language; hardware; software; learning

cost; math; business education; junior high; high school

Computers. Electronics, 1967, 40(2), 44+. 
reading; Rand tablet; language

overview; junior high; math; interaction; drill-and-practice; arithmetic; Stanford University; PLATO, levels of CAI; elementary grades

Socratic system; economics; curriculum

Penn State; IBM; college

high school; algebra; physics; achievement; motivation; applications; curriculum--programs

arithmetic; strategy--instructional; elementary grades


PLATO; hardware; strategy--instructional


physics; high school; curriculum--programs


algebra; high school; curriculum--programs


chemistry; education; research; applications


business education; high school; problem solving

FORTRAN--course in; interaction


Kansas City; strategy--instructional; teacher; personnel; student records; achievement; math; science; junior high; individualization; attitude


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computer-managed instruction; decision rules; implementation; Individually Prescribed Instruction; IPI; individualization


individualization; computer-managed instruction; individually prescribed instruction; management system; diagnostic tool

chemistry; college; laboratory; demonstration


System Development Corp.; branching; CLASS; multimedia; research & development


programmed instruction; CLASS; PLATO


programmed instruction; branching; research; tutorial; individualization; CLASS; System Development Corp.; future; obstacles

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rationale; theory; individualization; CLASS; overview; project; cost


management--instructional; student records; cost

branching; evaluation; logic; high school; time; aptitude

Coulson, J. E., & Kooi, Beverly Y. Classroom Progress Reports for the Instructional Management System. SP-3056/002/00, System Development Corp., Santa Monica, Calif., 1968.

Instructional Management System; achievement; diagnostic tool; teacher; reading; math; student records; remedial material; elementary grades; management system--instructional


teaching machine; response; step size; branching


teaching machine; individualization; sequence; branching; response; step size; psychology; reinforcement; Bendix G-15


language; Coursewriter III; IBM/360


Raucher, S. M. **APL and Its Utilization in the Classroom.** IBM Corp., Data Processing Div., Washington, D. C.

language; APL; problem solving; physics; high school; simulation


hardware; RCA Instructional 70 System; RCA Instructional 71 System; software; curriculum; language; LISA; drill-and-practice; English; elementary grades

RCA Information Folder. RCA Instructional Systems, Palo Alto, Calif.

teacher; English; reading; arithmetic; drill-and-practice; RCA Instructional 70 System; project; curriculum; elementary grades

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individualization; RCA; reading; arithmetic; English; teacher; drill; elementary grades


reading; programming; elementary grades


University of Iowa; dentistry; periodontics; project

Westinghouse Learning Corp.; PLAN; Annapolis; CBI-70; research & development


reading; Stanford University; achievement


drill-and-practice; games; simulation; learner-controlled instruction; disadvantaged; multimedia; tutorial; testing


research; response; reinforcement; learning; future; obstacles


vocational education; simulation; federal government


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problem solving; electrical engineering; laboratory


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limitations; hardware; language; software; curriculum; obstacles


data management system; IBM 1500/1800; student records; Florida State University


arithmetic; learner-controlled instruction; achievement; age; retention; drill-and-practice; teacher-controlled instruction; elementary grades


branching; learning model

Dettlaff, Nanette M. IBM 360 Installation Summary. Computer-assisted Instruction Laboratory, University of Texas, Austin.

IBM/360; software; hardware; installations


science; evaluation; proctor; student records; cost; junior high

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adaptive training; decision model; latency; confidence; performance; remediation; regression analysis techniques; response


problem solving; instruction; math; high school


programmed instruction; achievement; social need; creativity; effectiveness; individualization

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author; language; input


language; glossary; dialogue system; Newcastle University Teaching System; NUTS


Kansas City; science; math; junior high

hardware; software; obstacles


creativity; learning by discovery; SOLO

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language; author; Coursewriter II; IBM/1500

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hardware; terminal; IBM/3735

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language; BASIC


INDICOM; Waterford, Mich.; individualization; hardware; RCA Instructional 71 system; teacher; author; training; language; elementary grades; math; drill-and-practice; language arts; high school; deaf; audiovisual; evaluation; achievement; attitude; project; overview; business education; reading; science; social studies; spelling; glossary; inservice education; teacher education

individualization; systems analysis; drill-and-practice; simulation; tutorial


cost; individualization; innovation


RCA Instructional 70 System; language; author; curriculum development


drill-and-practice; math; English; adult education; college; hardware; strategy--instructional; elementary grades; management system--instructional


high school; math; Philadelphia; Pittsburgh

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teacher; inservice education; exceptional children; mobile CAI
SDC: hardware; installations; System Development Corp.

personality; child development; sociology; simulation; social work; remediation; diagnostic tool

education

teacher education; software; obstacles

glossary; programmed instruction; audiovisual

bibliography; keyworded index
bibliography; KWIC index

English; poetry

time-sharing; math; drill; simulation; ENTELEK; high school

hardware; cost; automation; research & development

strategy--instructional; Executive Computer Systems, Inc.; curriculum

multi-media; inservice education; teacher education

evaluation; readability; management--information; curriculum


learning; strategy--instructional


compensatory education; disadvantaged; drill-and-practice; arithmetic; reading; cost; effectiveness; achievement; urban; elementary grades


hardware; terminal; evaluation; CAI system


software; drill-and-practice; math; Stanford University; strategy--instructional; reading; tutorial; time-sharing; hardware; strand; elementary grades

language; author; CAL; math; science; social sciences; IBM; University of California, Irvine; curriculum

electronics; laboratory; simulation; circuit design; college

geography; college; curriculum--programs

tutorial; computation; simulation; genetics; college; biology


IBM/360; APL

time-sharing
language; author; PLANIT; calculation; branching; interaction; programming

language; author; PLANIT; interaction; calculation; branching

language; PLANIT; programming

time-sharing; language; author; PLANIT

literature review; cost; rationale; language; hardware; interface; research & development

definition; literature review; learning; overview; individualization

definition; information sources; theory; literature review; hardware; CAI systems; language; interface; cost; overview

testing; math; elementary grades

Socrates; medicine; dialogue system; teaching machine

Socratic system; natural language; dialogue system; medicine

geography; college; debugging; curriculum-program

self-instruction; medicine
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programming; individualization; autoinstruction

drill; spelling; retention; practice; elementary grades

drill-and-practice; spelling; practice; elementary grades

high school; time-sharing; cost; curriculum; attitude

medicine


individualization; hardware; computation; terminal; cost


overview


overview


response; science; teaching machine; autoinstruction; elementary grades


hardware; science; elementary grades; math; presentation mode; curriculum development


language; author; CAL

physics; math; high school; graphing; laboratory; attitude

time-sharing; software; liberal arts; BASIC; Dartmouth; hardware


music; elementary grades; piano; keyboard; cost; hardware; software; achievement; feasibility


programmed instruction; achievement motivation; anxiety; performance


APL/360; computation; testing; CAL; multi-media; junior college; installation


APL

language; COPI; COPI 494 system; student records


computer-managed instruction; teacher


programmed instruction; branching; hardware; IBM


cost; instruction; effectiveness; personnel


instruction; cost; effectiveness; personnel


cost

physicss; college; multi-media; computer-managed instruction; attitude; achievement; cost; simulation; physical science; laboratory


feedback; programmed instruction


response; retention; programmed instruction


computer-managed instruction; strategy-instructional; sequence; learner; personality; anxiety; achievement; cost; attitude; learner-controlled instruction


retention; sex; math; presentation; junior high

feedback; achievement; time; attitude; cathode ray tube; strategy--instructional


system; cost; software; storage; centralization


cost; media; hardware


programmed instruction; learning


tutorial; time; outcomes

teacher; overview; cost; software


overview; cost; medicine


overview; individualization; math


teacher; overview; cost; software

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science; feedback; retention; error correction; college

time; verbal ability; comprehension; readability; ability


ability; comprehension; readability; time


electronics; training; Army; achievement; time; aptitude; attitude


programming; response; research; automated instruction

individualization; innovation


response; cueing; programmed instruction


student records; Palo Alto; math; high school; science; business education; counseling; applications


teacher; cost; instruction; future


efficiency; availability; teacher; applications


hardware; software; language; cost; operational aspects


mechanics; college; APL; physics


APL II, language

electronics; Army; effectiveness; instruction; achievement; time; implementation; attitude

feasibility; electronics; effectiveness; achievement; time; cost; ability

programming; high school; disadvantaged; hardware; software; strategy--Instructional

counseling

paired learning; achievement; curriculum development; Boolean algebra; confidence; ability; attitude; high school


chemistry; college; problem solving; tutorial; audio


programmed instruction; reinforcement; aptitude; autonomy need; achievement


quantum mechanics; sequence; curriculum


time-sharing; high school; college; cost; drill-and-practice; Spanish; climatology; social sciences; sciences; physics; Dartmouth; learner; project; overview

programmed instruction; reinforcement theory; objectives; theory; obstacles


language; PL/I; APL; CATO; BASIC; PIL; STRINGCOMP; input/output

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language; LYRIC


computer-managed instruction; individualization; systems approach; curriculum development; cost; instructor-controlled learning; learner-controlled instruction; achievement; programmed instruction; graduate education; implementation; attitude


teacher education; math; achievement; inservice education

teacher education; math; mobile CAI; achievement; attitude; inservice education; debugging


time-sharing; social sciences; macroeconomic theory; software; economics


theory; hardware; software; language; CATO; Coursewriter; BASIC; drill-and-practice; testing; tutorial; simulation; natural language; bibliography; literature review


testing; cost; science; attitude


school psychology; testing; personality; individualization; diagnostic tool

individualization; feedback; retention; evaluation; personality; attitude

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individualization; strategy--instructional; learner-controlled instruction; current issues


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strategy--instructional; strategy--learning; learning; individualization; counseling; research & development; literature review


curriculum development; systems analysis; task analysis; personnel; cost
curriculum development; task analysis; personnel; cost; math

learning model; curriculum development; physics; strategy--instructional; systems approach; personnel; games; simulation; obstacles

testing; cost; science; attitude

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management system--information; computation; administration; computer-managed instruction; simulation; cost; personnel; training; applications

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data analysis; student records; input/output; response


Hansen, D. N., Dick, W., & Lippert, H. T. Institute in Computer-related Multi-media Instruction for Administrators and Faculty in Junior Colleges and Universities. Technical Memo 6, CAI Center, Florida State University, Tallahassee, 1969.

memory; electronics; training; strategy--instructional; practice

physics; college; effectiveness; cost; curriculum development; systems approach; personnel; multimedia; achievement; personality; anxiety; bibliography; research; implementation; attitude

training; evaluation; multimedia; instruction; graduate school

personnel; training; evaluation; Florida State University; Institute in Education Media


THEMIS; training; retention; personality; games; computer-managed instruction; literature review


Wakulla County, Florida; rural; reading; math; English; cost; effectiveness

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teacher; teacher education


teacher; teacher education

applications; installations; Instructional Management System; multi-media; performance; programmed instruction; branching; personality; anxiety; aptitude; systems approach; simulation; counseling; overview; personnel; bibliography; individualization; management system--instructional


anxiety


guidelines; personnel; research


Florida State University; curriculum


associative memory; complexity; availability; reasoning; ability


teacher; programmed instruction; learning; individualization; literature review


disadvantaged; arithmetic; English; Cincinnati; elementary grades

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feedback; science; college; effectiveness; error correction


hardware; input/output; student records; strategy--instructional; terminal


programmed instruction; response; cueing; ability; evaluation; self-instruction; reading


Hewlett-Packard: hardware; time sharing; BASIC

Westinghouse Learning Corp.; PLAN; computer-managed instruction


teacher education; computer-managed instruction; individualization; student records; Florida State University


teacher education; math; tutorial; inservice education


overview; project; future; obstacles


Honeywell; language

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problem solving; author; language; tutorial

Honeywell; teacher; author; Louisiana

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author; language; Honeywell


RCA; curriculum; project; funding; hardware


Cincinnati; cost; back-up time


electrical engineering; college; problem solving; cost; laboratory; multi-media; hardware


geography; college; strategy--instructional; hardware; climatology; attitude

definition; geography; college; language; achievement


drill-and-practice; APL; analogy concept


language; WRITEACOURSE


medicine


language


education; learner-controlled instruction; learning--computer-controlled; dialogue system
drill; higher education; cost

multi-media; future; overview; applications

Hewlett-Packard; drill-and-practice; math; cost; elementary grades

deaf; programming; branching; task analysis; curriculum development

deaf; math; high school; curriculum development; programmer; student records; proctor; remedial material; diagnostic tool

individualization; dial-access system; drill; funding; effectiveness; architectural considerations
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analog computer; maps; geography; college

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geography; college; spatial association; APL; pro-
gramming; curriculum

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struction or Instruction Research via On-Line Com-
puter Systems. Center for Research on Learning and
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curriculum; elementary grades; junior high; high
school; college; time

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systems; language; author; student records; response;
project

Zinn, K. L. Computer Technology for Teaching and Re-
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literature review; drill; tutorial; dialogue system;
simulation; problem solving; computation; feedback;
sequence; strategy--instructional; language; bibliog-
raphy

overview; literature review; tutorial; dialogue system; drill-and-practice; information sources


overview; cost; drill; tutorial; hardware; software; simulation; games; dialogue system


tutorial


language; understandability; limitations


language; programming


author-controlled instruction; simulation; games; math; problem solving; language


individualization; innovation; Stanford University; criticism


innovation; individualization


individualization


graphing; math; numerical analysis; effectiveness; evaluation; interaction; system


anxiety; learning; feedback; error rate; performance


anxiety; task difficulty

programmed instruction; teacher; attitude; learner


individualization; systems approach; innovation; higher education; obstacles


REFLECT; personnel; training; programmer; project; cost; curriculum development; strategy--instructional; chemistry; high school; physics; science; junior high; math; attitude; installation


ELIZA; natural language; language; programming


natural language; ELIZA; understanding

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interface; response; ability; age; branching; instruction; objectives; limitations; instructional objectives; individualization


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input/output; graphics; terminal


hardware; cost; effectiveness; language; personnel; audio; terminal


automated instruction; federal government; funding


strategy--instructional; systems; overview; learning model; teaching model; evaluation; theory


problem solving; behavior; rationale; curriculum
PACE; attitude; deaf; blind; disadvantaged; social studies; high school; obstacles

simulation; physics; bouncing ball problem

accounting; games; business education

PILOT; language; natural language; dialogue system; author; programming

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interaction; PILOT; author; language

Pilot, an Interactive Computer Language. Office of Information Systems (76-U), University of California, San Francisco.
medicine; author; language; PILOT; programming

PLANIT. System Development Corp., Santa Monica, Calif., Corporate Communication 44-4(269).
PLANIT; language; calculation

autoinstruction; learning theory; drill


achievement; teacher; ability; disadvantaged; drill-and-practice; arithmetic; hardware; personnel; retention; elementary grades


language; COPI; UNIVAC; branching; hardware


sociology; inquiry; interaction


bibliography

language; BASIC; programming; time-sharing; hardware; teacher; physics; chemistry; engineering education; glossary; learner; curriculum; college


author; system; Coursewriter; IBM/1500


graphics; IBM/1500


adult education; data processing; attitude


individualization; overview; software; industry; criticism


computer-managed instruction; learning; optimization

Systems approach; multi-media; strategy—learning.


Computer-managed instruction; cost; obstacles.


Programmed instruction; IBM 1440 system; Coursewriter; author; student records; debugging; programming.


Physics; computation; simulation; physics; cost; projects.


PLANIT; SDC.


Behavior; ability; achievement; math; reading; elementary grades.


research & development; cost; funding; systems approach; industry; federal government


PLATO; cost; criticism


bibliography; math


adaptive teaching machine; error rate


curriculum; personnel; innovation


teaching machine; intelligence; ability; step size; Roman numerals; elementary grades

engineering dynamics; Euler angles; attitude


science; computation; simulation; physics; math; time-sharing; chemistry; tutorial; drill-and-practice; cost; efficiency


programmed instruction; literature review; strategy--instructional


literature review; response; effectiveness; bibliography; individualization

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applications; response; evaluation; research & development; management system--instructional; time-sharing; input/output; language; cost; acceptance; obstacles

effectiveness; research; instruction; computer-managed instruction; obstacles; input/output; language; cost; acceptance; overview; interaction; applications


branching; logic; high school; aptitude


applications; overview; literature review; bibliography; management system--instructional; computer-managed instruction; research & development; interface; language; cost


branching; learner-controlled instruction; logic; high school


definition; learner-centered; learner; teacher; programmer; input/output; MAESTRO; language; LYRIC; programming; hardware

programmed instruction; learner-centered instruction; learner; teacher; overview; programmer; software; system


training; learner-centered; programmed instruction; system model--instructional; teacher; programmer; time-sharing; learner; EYBOL; effectiveness


training; learner-centered; programmed instruction; system model--instructional; teacher; programmer; time-sharing; EYBOL; learner


learner-centered; programmed instruction; definition; system model; learner; teacher; programmer; language; LYRIC; EYBOL; project


LYRIC; language; graphics; plotting; simulation; math

  teaching machine; self-instruction


  software; industry


  strategy--instructional; language; math; college; drill; tutorial; proctor; MATHS; University of Texas


  counseling; junior college; feasibility


  anxiety; individualization; learning; performance; math; college


  programming; programmer; training; faculty; college


engineering education; branching; interface; response; student records; cost; evaluation

dead; individualization

0673 Student Language Compiler for IBM 1130 System. (Revised) 1130-03.2.002, IBM Corp., 1968.

language; IBM/1130; learner

typewriter; terminal; debugging; time; evaluation; attitude; learner


learning by discovery; SRI; elementary grades


individualization; Stanford University; drill-and-practice; arithmetic; elementary grades; tutorial; dialogue system; obstacles; applications

0677 Suppes, P. Computer-based Instruction. Electronic Age, 1967 (Summer).

individualization; student records; cost; drill-and-practice; obstacles
drill-and-practice; individualization; tutorial; dialogue system; teacher

individualization; terminal; drill-and-practice; tutorial; dialogue system; stimulus; sequence; response; reinforcement; student records; obstacles

hardware; individualization; drill-and-practice; tutorial; dialogue system; dehumanization; standardization; future

individualization; Stanford University; Russian; college

hardware; individualization; drill-and-practice; tutorial; dialogue system; dehumanization; standardization

drill-and-practice; word problem; arithmetic; problem solving; teletype; difficulty level; elementary grades


drill-and-practice; tutorial; math; Russian; achievement; concept blocks; strategy--instructional; curriculum; elementary grades; college


input/output; light pen; hardware; cathode ray tube; CRT

Swets, J. A. Some Possible Uses of a Small Computer as a Teaching Machine. Datamation, 1964, 10 (6), 39.

medicine


Socratic system; medicine; diagnostic tool


COACH; language; teacher; hardware

- cost; ELIZA; terminal; PLATO; overview; chemistry; language; simulation; programming; curriculum


- simulation; business education; social sciences; international relations; economics; Sumerian game; elementary grades; games


- geometry; college; MIT


- time-sharing; cost; real-time; language; obstacles


- individualization; science; curriculum development; evaluation; student records; software; junior high


- college; drill-and-practice; software; higher education; programmer; curriculum development
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Waterford, Mich.; INDICOM; teacher; author; drill-and-practice


teacher; attitude; programmed instruction


teacher; attitude; media; achievement

A Total Community Learning Plan! *Responsive Environments Corporation*, Englewood Cliffs, N. J.

talking typewriter; reading; adults; language arts


cost; hardware; software; teacher


New York City; overview


math; graphing

interaction; terminal; tutorial; IBM 650 RAMAC; teaching machine; stenotype; statistics; German


analytic geometry; college; tutorial; problem generation


problem generation


Stanford University; hardware; project; drill-and-practice; arithmetic; elementary grades; logic; spelling; tutorial; algebra; Russian; college; problem solving; reading


Stanford University; math; drill-and-practice; individualization; reliability; future; stimulus; deprivation; obstacles


dead; Stanford University; math; elementary grades


drill; spelling; practice; retention; elementary grades


learning theory; arithmetic; concept block; drill-and-practice; error probability; latency; elementary grades

learning theory; arithmetic; concept block; drill-and-practice; error probability; latency; elementary grades


drill-and-practice; word problem; arithmetic; problem solving; teletype; difficulty level; elementary grades


adaptive teaching system; presentation mode; sequence; learning model; Swahili; college; response; latency; error rate


reading; elementary grades; Stanford University; terminal; audio; visual; programming; curriculum


Stanford University; overview; elementary grades; logic; math; drill-and-practice; teletype; terminal; motivation; learner; evaluation; achievement; compensatory education; strand; curriculum; decision rules; individualization; diagnostic tool; disadvantaged


drill-and-practice; math; elementary grades; tutorial; Russian; college; Stanford University; achievement; evaluation; curriculum; difficulty level; McComb County, Mississippi; audio; ability; disadvantaged

math; elementary grades; utilization; proctor; curriculum development; individualization; branching; difficulty level; reading; data analysis; curriculum; drill-and-practice; junior high; disadvantaged; strand; teletype; logic; algebra; Dial-A-Drill; Stanford University; Russian; college; achievement; spelling; hardware; software


programming; psychology; feasibility; college; learner; attitude; achievement; motivation; paired learning; ability


Indiana State University; physics; college; multimedia; math; drill-and-practice; research & development; overview


games; high school; socioeconomic games; career game; college; democracy game; School Board game

feedback; science; college; confidence; aptitude; retention; attitude


vocational education; technical education; overview; advantages


feedback; science; college; confidence; attitude; aptitude; retention


science; college; feedback; confidence; aptitude


feedback; confidence; retention; science; college

New York City; drill-and-practice; arithmetic; elementary grades; hardware; concept block; curriculum; teacher; training; personnel; terminal; achievement; sex; disadvantaged; latency; error rate; time outs; attitude; learner; administrator; parents; ability


training; IBM; terminal; IBM 2260; testing; information processing operations; advantages


New York City; drill-and-practice; arithmetic; elementary grades; teacher; individualization; obstacles; personnel; training; terminal; utilization; achievement; reading; attitude; testing; sex; disadvantaged; ability; error rate; latency; time outs; learner; parents


innovation; education; educational technology; applications; research & development; higher education; international; curriculum development; hardware; interface; cost; software; strategy— instructional; language; information exchange

higher education; educational technology; engineering; television; limitations


higher education; applications; limitations; administration


time-sharing; calculation; chemical engineering; terminal


applications; college; hardware; system design; computer-managed instruction; cost; educational technology; limitations; obstacles


technology; education, utilization

failure; innovation; educational technology; budget; evaluation


language; BASIC; programming; high school; teletype; curriculum


language; BASIC; programming; junior high; high school


applications; Stanford University; reading; elementary grades; overview; sex; music; physics; college; Florida State University; junior high; science; advantages; individualization; teacher; cost; counseling


language; programming; BASIC

- math; drill-and-practice; strand; elementary grades; logic; algebra; teacher; terminal; teletype; curriculum; decision rules


- time-sharing; definition; applications; college; overview; obstacles; hardware; cost; graphics; terminal; software; language; effectiveness; future; implementation; tutorial


- drill-and-practice; language arts; math; elementary grades; achievement; effectiveness


- NETWORK; Marion County, Oregon; teacher; training; programming; language; assembler; compiler; math; problem solving; business education; terminal; time-sharing; BASIC; hardware; PDP-8/S; ECP-16; mobile installation; IBM/1130; input; cost; bibliography

dental education; applications; administrative; overview; project


PLATO; language; TUTOR; project; curriculum; astronomy; biology; chemistry; college; games; demography; economics; education; civil engineering; electrical engineering; mechanics; French; Latin; library science; math; drill-and-practice; physics; political science; Russian; Spanish; veterinary medicine; bibliography


PLATO; terminal; multi-media; computation; student records; system design; cost; plasma display panel


dental education; medicine; educational technology; individualization; interaction; instruction; levels of CAI; pathology; dialogue system; Socrates; strategy--instructional; visual; TAPS; anatomy; ophthalmology; information retrieval; hematology; simulation

instructional technology; levels of CAI; IBM; interaction; learner-controlled instruction; statistics; achievement; arithmetic; practice; teacher; learner


medicine; installation; centralization; hardware; applications; software; curriculum development; evaluation; interaction; programming; curriculum; language


educational technology; education; limitations


math; curriculum development; strategy--instructional; testing


bibliography; health sciences; medicine

   medicine; Ohio State University; anatomy; dentistry; inservice education; tutorial


   overview; project; Cornell University; anatomy; obstacles: Stony Brook, N. Y.; University of Calif., San Francisco; University of Iowa; abstracts; cost; dentistry; medicine


   Cornell University; project; tutorial; anatomy; medicine


   Ohio State University; project; inservice education; dentistry; attitude


   University of California, San Francisco: medicine; dentistry; simulation; interview; project

University of Pittsburgh; simulation; dentistry


dentistry; training; simulation


learning; verbal learning; PLATO; program; PAVLEW; paired associate learning


PLATO; hardware; terminal; strategy--instructional; programming--course; college; achievement; curriculum


West Point; time-sharing; Digital Equipment Corp.

0773 The Use of Computers in Instruction. AEDS Monitor. 1971, 9(11), 4.

teacher; utilization

PLATO; terminal; nursing; geometry; response; system design; cost; curriculum development; plasma display panel


math; theorem proofs; junior high; teacher education; PLATO; problem solving; algebra; geometry


reading; math; elementary grades; curriculum development; television-cable; cost


PLATO; response; personnel; evaluation; SIRA; data; debugging; student records; research tool; instruction; author; response-data processing; storage; software; program; learner; attitude; socioeconomic level; behavior; disadvantaged; high school; motivation; age; sex; reinforcement; curriculum development
curriculum development; teacher; learner; genetics; evolution; high school; evaluation; debugging; implementation; attitude

geometry; junior high; curriculum development; debugging; revision; response

University of Wisconsin, Milwaukee; counseling; drug abuse education; psychology; vocational guidance; guidance; school psychology; testing

Hicks, B. L. PLATO Program: VERBOSE. Report I-129, Coordinated Science Laboratory, University of Illinois, Urbana, 1965.
program; VERBOSE; word association

electrical engineering; network analysis; PLATO; tutorial; inquiry; objectives-course; evaluation; achievement; college; attitude

Plato; program; strategy--instructional; tutorial; inquiry; college; curriculum; laboratory; simulation; games; demonstration; programming--course; electrical engineering; math; high school; Latin; French; library science; English; nursing; genetics; chemistry; political science


Strategy--instructional; tutorial; inquiry; cost; drill-and-practice; applications; evaluation; overview; software; Plato; future; hardware; terminal; utilization


Math; problem solving; plotting; tutorial; drill-and-practice; diagnostic tool; deaf


Deaf; math; diagnostic tool; chemistry; strategy--instructional; science

PLATO; terminal; computation; geometry; junior high; laboratory; simulation; cost; electrical engineering; nursing; system design; plasma display panel


response; PLATO; network synthesis; electrical engineering; debugging; curriculum


PLATO; strategy--instructional; tutorial; inquiry; terminal; electronic blackboard; research; overview


PLATO; strategy--instructional; tutorial; inquiry; terminal; electronic blackboard; research; overview


PLATO; curriculum; life sciences; genetics; nursing; chemistry; physics; electrical engineering; civil engineering; college; language; TUTOR; hardware; author; software

PLATO; strategy--instructional; tutorial; inquiry; hardware; terminal; electronic book; electronic blackboard


PLATO; strategy--instructional; tutorial; inquiry; electronic book; electronic blackboard; hardware; terminal


PLATO; curriculum; astronomy; biology; chemistry; communications; demography; economics; research; civil engineering; electrical engineering; French; nursing; Latin; library science; math; physics; political science; Russian; Spanish; veterinary medicine; bibliography


elementary grades; logic; algebra; arithmetic; levels of CAI; drill-and-practice; evaluation; tutorial; dialogue system; individualization; teacher; concept block; implementation; difficulty level; Stanford University

- system analysis; decision rules; tutorial; model; learning model; strategy--instructional; optimization; system design; system engineering; education; individualization


- programmed instruction; teacher; behavior; BASIC; response


- industrial engineering; simulation; time-sharing


- chemical engineering; problem solving


- chemical engineering; analog computer; problem solving; simulation

individualization; educational technology; applications; computation; teacher; drill-and-practice; tutorial; dialogue system; games; simulation; project; overview; cost; hardware


applications; management system; definition; hardware; software; implementation; interface; interaction; overview; strategy--instructional; drill-and-practice; tutorial; Stanford University; simulation; curriculum development; terminal; optimization; future; obstacles


Learning Research and Development Center; individualization; Individually Prescribed Instruction; IPI; testing; management system; teacher


Learning Research and Development Center; individualization; Individually Prescribed Instruction; IPI; testing; management system; teacher

individualization; Individually Prescribed Instruction; computer-managed instruction; IPI; decision rules; implementation


drill-and-practice; tutorial; spelling; confidence


individualization; testing; objectives—instructional; evaluation


individualization; objectives—educational; testing; Individually Prescribed Instruction; IPI; Oakleaf School


individualization; objectives—educational; testing; Individually Prescribed Instruction; IPI; Oakleaf School

individualization; testing; objectives--instructional; evaluation


teacher; behavior; programmed instruction; BASIC

Cunningham, S. L., & Fuller, R. G. Computer Assisted Tutoring in Relativity--An Experiment. Department of Physics, University of Nebraska, Lincoln, 1971.

testing; personnel; achievement; relativity; physics; attitude


applications; system; interaction; hardware; software; language; elementary grades; higher education; vocational education; cost; research & development


physics; mechanics; calculation

hardware; obstacles; personnel; physics; electricity; language; author; software; graduate education; curriculum development; computation; biology; college; attitude; cost; teacher; learner; English; grammar; linguistics; calculus; strategy--instructional; Paris University


math; elementary grades; drill-and-practice


language; programming; interaction; user; curriculum development; applications; hardware; cost; glossary


levels of CAI; problem generation; tutorial; analytic geometry; response; software; programs; diagnostic tool; terminal; television display


natural language; conceptual modeling

natural language; question answerer


ELIZA; tutorial; typewriter; program; physics; natural language; slides


vectors; relativity; ELIZA; tutorial; physics; attitude; limitations


ELIZA; understanding; natural language; interaction


tutorial; interaction; ELIZA; natural language; program; obstacles

ELIZA; natural language; language; programming; author


high school; algebra; math; tutorial; debugging; evaluation; curriculum development; attitude


algebra; math; high school; debugging; personnel; teacher education; time; utilization; tutorial


algebra; math; high school; tutorial; testing; achievement; attitude


medicine; malaria parasites; hardware; curriculum development; achievement

tutorial; interaction; ELIZA; natural language; program; obstacles


ELIZA; interaction; natural language; programming; language


ELIZA; Wake Forest University; tutorial; physics; obstacles; attitude; achievement; evaluation


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slide projector; ELIZA

confidence; feedback; error correction; retention; science; college
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GUIDANCE
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GUIDELINES
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0070  0088  0089  0095
0094  0100  0105  0109
0118  0123  0138  0174
0182  0190  0204  0212
0224  0229  0239  0251
0255  0257  0258  0265
0269  0274  0278  0280
0294  0302  0330  0346
0355  0387  0358  0399
0368  0371  0373  0377
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HEALTH SCIENCES
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HEART DISEASE
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HEART RATE
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INSTRUCTION THEORY
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INSTRUCTIONAL DESIGNER
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INSTRUCTIONAL MANAGEMENT SYSTEM
0319 0529

INSTRUCTIONAL OBJECTIVES
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INSTRUCTIONAL TECHNOLOGY
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INSTRUCTOR-CONTROLLED INSTRUCTION
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INSTRUCTOR-CONTROLLED LEARNING
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INTELLIGENCE
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INTERFACE
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INTERNATIONAL
0226 0734

INTERNATIONAL RELATIONS
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INTERVIEW
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MANAGEMENT--INSTRUCTIONAL
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MANAGEMENT SYSTEM
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MANAGEMENT SYSTEM--INFORMATION
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MANAGEMENT SYSTEM--INSTRUCTIONAL
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0177 0187 0194 0216
0221 0231 0236 0249
0284 0324 0327 0333
0403 0405 0415 0463
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0714 0723 0742 0746
0747 0749 0753 0759
0817 0823 0831
PROGRAMMING--COURSE
0088 0771 0783
PROJECT
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0269 0316 0351 0384
0373 0499 0549 0594
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PROJECTS
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PROMPTING
0222 0487
PRONUNCIATION
0082

PSYCHOLOGY
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0723 0780
PUBLIC SCHOOL
0186
QUADRATIC EQUATIONS
0200
QUANTUM MECHANICS
0349 0498
QUESTION ANSWERER
0820
RADAR OPERATORS
0161
RAILROAD
0267
RAND TABLET
0254 0296 0602
RATIONALE
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RCA
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RCA INSTRUCTIONAL 70 SYSTEM
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0376

RCA INSTRUCTIONAL 71 SYSTEM
0119 0330 0373

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0719 0722 0733 0748
0776

REAL-TIME
0692

REASONING
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RECTANGULAR-WELL POTENTIAL
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REFLECT
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REGRESSION ANALYSIS TECHNIQUE
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REINFORCEMENT
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0497 0669 0679 0743
0777

REINFORCEMENT THEORY
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RELATIVITY
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RELIABILITY
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REMEDIAL MATERIAL
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REMEDIATION
0362 0381

REPETITION
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| Self-Instruction | 0094 0103 0150 0414 0944 0660 |
| Sequence | 0001 0061 0085 0213 0220 0221 0222 0309 0321 0341 0447 0498 0574 0679 0713 |
| Sex | 0062 0360 0361 0448 0731 0739 0748 0777 |
| Sierra Leone Development Project | 0087 |
| Simulation | 0002 0004 0006 0024 0028 0036 0058 0060 0071 0074 0077 0091 0103 0104 0105 0106 0107 0111 0124 0128 0130 0132 0161 0179 0181 0182 0193 0217 0229 0241 0250 0267 0329 0337 0339 0350 0374 0391 0388 0398 0400 0444 0488 0507 0512 0516 0518 0529 0534 0536 0574 0576 0580 0583 0589 0611 0631 0646 0659 0667 0689 0690 0757 0767 0768 0769 0781 0787 0798 0800 0801 0802 |
| Sira | 0777 |
| Slide Projector | 0834 |
| Slides | 0821 |
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| Social Science | 0006 0217 |
| Social Sciences | 0293 0397 0499 0506 0690 |
| Social Studies | 0973 0610 |
| Social Work | 0144 0381 |
| Socioeconomic Games | 0725 |
| Socioeconomic Level | 0233 0777 |
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SOCRATES
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SOCRATIC SYSTEM
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